

Columbia University in the City of New York

# ANNUAL REPORTS

1902

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Columbia Aniversity in the City of New York

# ANNUAL REPORTS

### OF THE

# PRESIDENT AND TREASURER

, TO THE

# TRUSTEES

# WITH ACCOMPANYING DOCUMENTS

For the Year Ending June 30, 1902

NEW YORK PRINTED FOR THE UNIVERSITY

1902

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### To the Trustees:

In conformity with the provisions of the Statutes, Chapter I, section 2, there is submitted herewith the annual report of the President for the year ending June 30, 1902, upon the condition and needs of the University.

The year under review is marked by the retirement from the presidency of the distinguished man, tenth in the succession from President Samuel Retirement Johnson, who for twelve years guided the of President Low development of Columbia University at a most critical period in its history. Under the leadership of President Low the hopes and the prophecies that had been cherished and made for a generation were fulfilled. The forces that for twenty years had been stirring in Columbia College and its associated schools, forces to which President Barnard had time and again called attention in eloquent words, found full expression. The College which had served New York so long and so well became the modern, manysided university of which the old Columbia College is the foundation; this University, carried to a new and fitting home on a site of great beauty and appropriateness, has quietly and naturally taken its place as one of the small group of truly national universities which minister to the whole nation, reflecting, each in its own way, the nation's idealism, its love of knowledge, its zeal in investigation and invention, and its practical skill in applying scientific principles in action. The Trustees, in their resolutions

of October 7, 1901, and the University Council, representing the entire teaching staff, in the minute adopted at a special meeting held October 12, 1901, have given expression to their appreciation of Mr. Low's great services to the University, as well as to their regret at his retirement from office.

Mr. Low's part in the creation of Columbia University and his almost unlimited generosity in supplying its needs, are a part of our academic history which will never be overlooked or forgotten. He carries to his new and difficult post of public service the hearty good wishes of the entire University.

Following Mr. Low's resignation came that of Mr. W. H. H. Beebe, who, as Secretary of the University, had been conspicuously efficient, and whose organization of the work of the Secretary's office had contributed greatly to the ease and effectiveness of the University's administration. Mr. Beebe had fully earned the hearty thanks of Trustees, officers, and students alike for his years of valued and devoted service.

The close 'of a presidential administration offers an excellent opportunity to summarize the condition of the University. As a result of the Columbia changes of the past few years, the term University in 1901 Columbia University is now used in two dis-Technically, it means the various detinct senses. partments of educational work carried on under the immediate jurisdiction of the Trustees of Columbia College in the City of New York and at their expense; educationally, and as the term is interpreted by the public at large, it includes the work of Barnard College and of Teachers College as well. Because of these two uses of the term Columbia University, some

care is necessary in order to avoid misconception and misunderstanding when statistics of student attendance or of expense are offered either for record or for comparison.

In 1901 the work of Columbia University was carried on upon two sites, Morningside Heights and the site of the College of Physicians and Surgeons on West 59th Street. The area occupied was as follows:

| At Morningside Heights<br>At West 59th Street       |                   | Acres<br>16.960<br>1.854 |
|---|-------------------|--------------------------|
| Total   | 819,555           | 18.814                   |
| Site of Teachers College<br>Site of Barnard College | 323,642<br>37,065 | 7 · 429<br>. 850         |
| Grand total   | 1,180,262         | 27.093                   |

The teaching staff was constituted as follows:

| The teaching stall was constituted as follows. |                        |        |   |                                    |  |  |
|--|------------------------|--------|---|------------------------------------|--|--|
|  | Columbia<br>University |        | Teachers<br>College<br>(Excluding the<br>Horace Mann<br>School) | Total<br>(Excluding<br>Duplicates) |  |  |
| Professors                                     | 78                     | 14     | 10  | 81                                 |  |  |
| Adjunct Professors                             | 15                     | 5      | 6   | 16                                 |  |  |
| Clinical Professors                            | 3                      | -      |   |                                    |  |  |
| and Lecturers                                  | 17                     |        |   | 17                                 |  |  |
| Instructors                                    | 69                     | 5      | I 5   | 81                                 |  |  |
| Tutors   | 35                     | 5<br>8 | <u> </u>  | 35                                 |  |  |
| Demonstrators                                  | 3                      |        |   | 3                                  |  |  |
| Assistant Demon-                               | Ť                      |        |   | Ũ                                  |  |  |
| strators                                       | I 2                    |        |   | I 2                                |  |  |
| Assistants                                     | 46                     | 8      |   | 46                                 |  |  |
| Curators                                       | 3                      |        |   | 3                                  |  |  |
| Lecturers                                      | 24                     | 7      |   | 25                                 |  |  |
| Clinical Assistants                            | 77                     |        |   | 74                                 |  |  |
|  |                        |        |   |                                    |  |  |
|  | 379                    | 47     | 37  | 393                                |  |  |
| Administrative Offi-                           |                        |        |   |                                    |  |  |
| cers   | 17                     | 4      | 7   | 26                                 |  |  |
| Emeritus Officers                              | . 10                   |        |   | IO                                 |  |  |
|  |                        |        |   |                                    |  |  |
| Total  | . 406                  | 51     | 44  | 429                                |  |  |
|  |                        |        |   |                                    |  |  |

The Registrar's report for the year ending June 30, 1901, showed that there had been in attendance during the preceding year 4440 students, classified as follows:

| Under the University Corporation:          |      |
|--|------|
| Undergraduates in Columbia College         | 476  |
| Students of Applied Science                | 566  |
| Students of Law                            | 423  |
| Students of Medicine                       | 797  |
| Graduate Students of Philosophy, Political |      |
| Science, and Pure Science                  | 433  |
| Students at Summer Session of 1900         | 417  |
| Auditors                                   | 33   |
| Total –                                    | 0145 |
| TotalUndergraduates in Barnard College     |      |
| Teachers College:                          | 301  |
| Regular Students 528                       |      |
| Extension Students                         |      |
|  | 1207 |
|  |      |
|  | 4653 |
| Less Double Registration                   | 213  |
|  |      |
| Net tota1                                  | 4440 |

Omitting the registration in Barnard College, in Teachers College, in the Summer Session, and the auditors, there were in all 1087 students, or 40.3 per cent. of the remainder, who held an academic degree, and who were, therefore, strictly speaking, graduate students. These graduate students came from no fewer than 192 colleges and scientific schools in the United States and from 25 institutions of similar grade in foreign countries, or 217 in all.

At the Commencement of 1901, 610 degrees were conferred, as follows:

| Bachelor of Arts, Columbia College | 84  |
|------------------------------------|-----|
| Bachelor of Arts, Barnard College  | 50  |
| Bachelor of Laws                   | 99  |
| Doctor of Medicine                 | 147 |
| Engineer of Mines                  | Ι4  |
| Civil Engineer                     | īб  |
| Electrical Engineer                | 19  |
| Mechanical Engineer                | I 3 |
| Metallurgical Engineer             | 0   |
| Bachelor of Science                | 27  |
| Master of Arts                     | 109 |
| Doctor of Philosophy               | 26  |
| Honorary Degrees                   | 6   |
| -                                  |     |
| Total                              | 610 |

The Budget adopted by the Trustees for the year 1901-02 appropriated the sum of \$1,031,797.80, of which amount \$924,921 was for educational and administrative expenses and \$106,876.80 was for interest on the indebtedness of the Corporation. Of the whole amount appropriated, \$856,915 was chargeable to the general income of the Corporation from students' fees, rents, and interest, while the remainder was provided for by the income of trust funds (\$55,316.67), by gifts for designated purposes (\$9,650), by special subscriptions, or by borrowing. The general income available during the year was estimated at \$857,016, of which amount \$391,611 was received from rents, \$459,000 from students' fees, and \$6,405 from miscellaneous sources.

The reports made to the Regents of the University of the State of New York as of June 30, 1901, contained the following information regarding the financial condition of those corporations which make up Columbia University, as the public understands the term:

# COLUMBIA UNIVERSITY

|  | Columbia<br>University | Barnard<br>College | Teachers<br>College          |
|--|------------------------|--------------------|------------------------------|
| Property owned, June 30,<br>1901:                          |                        |                    |                              |
| 1. Occupied for Educa-                                     |                        | <b>A</b>           | <b>A</b> (0                  |
| tional Purposes<br>2. Held for Investment.                 |                        |                    | \$1,685,000 00<br>103,905 69 |
| 2. Here for my connent.                                    |                        |                    |                              |
| Total  | \$22,926,977 22        | 4 \$992,263 34     | \$1,788,905 69               |
| Outstanding Debt   | \$4,849,240 00         | o \$61,610 of      | \$44,000 00                  |
| Annual Budget for 1901-02<br>1. For Education and          | :                      |                    |                              |
| Administration   | \$924,921 0            | 0 \$128,144 06     | \$269,149 77                 |
| 2. For Interest on Debt                                    | 106,876 8              |                    | 3,282 77                     |
| Tota1  | \$1,031,797 8          | 0 \$128,144 06     | \$272,432 54                 |
| Income for 1900-01:  |                        |                    |                              |
| From Fees of Students.                                     | \$442,312 7            | 1 \$67,517 83      | \$130,184 76                 |
| From Rents   | 397,594 20             |                    |                              |
| From Interest<br>From Miscellaneous                        | 54,611 1               | 2 11,240 56        | 3,996 00                     |
| Sources  | 240,767 8              | 1 35,578 70        | 8,094 82                     |
| Tota1  | \$1,135,285 9          | 0 \$114,337 09     | \$142,275 58                 |
| Gifts received during the<br>year ending June<br>30, 1901: |                        |                    |                              |
| 1. For Immediate Use.<br>2. For Buildings and              | \$ 68,375 0            | 0 \$ 2,570 00      | \$ 85,700 00                 |
| Grounds  | 139,188 7              | 5 1,000 00         | 131,500 00                   |
| 3. For Endowment   | 113,305 79             | -                  |                              |
| 4. For Interest  | 33,250 00              | o                  |                              |
| Total  | . \$354,119 54         | \$103,570 00       | \$217,200 00                 |

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Such, in barest statistical outline, was the Columbia University of 1901. Its splendid spirit, its learned and faithful teachers, its earnest and eager students, its loyal body of alumni and friends, its prestige and power of accomplishment and service,—these were its intangible but most real assets.

It is not difficult when one reflects upon how much has been accomplished in a decade to bring one's self to feel that the most pressing problems that

confronted Columbia University have been solved and that the future is without em-

barrassment or undue difficulty. But in my view the contrary is the case. Our recent growth and development have been, for the most part, along the obvious lines and in ways with which students of university history are familiar. An exception is the admirable principle of federation under the operation of which Barnard College and Teachers College are, so far as the students and the general public are concerned, integral parts of the University, and by which Union Theological Seminary sends a representative to sit in the University Council. This principle of federation is quite distinct from that of affiliation, which is familiar elsewhere, and it is capable of much wider application than it has yet received. I shall hope to return to this topic on a later occasion.

It is just because we have grown so rapidly and, on the whole, so satisfactorily, that we are now face to face with new and difficult problems upon the right solution of which the future of Columbia University must largely depend. These problems appear to me to be three-fold: financial, administrative, educational.

Columbia University, as now organized and equipped, may be likened to a giant in bonds. Strength, power, zeal for service are all at hand, but The Financial the bonds of insufficient funds hold them in Problem on every side. In plainest language, Columbia University in 1902 is without adequate grounds and buildings and without sufficient income to care properly for the work that has already been undertaken, even if not a single extension of the work now in progress be planned. Columbia College, in which 492 undergraduates have been enrolled in 1901-02, is without any building whatever for academic purposes, and the instructors and students are temporarily assigned to most unsuitable and inadequate quarters. The Library building, which for the time being and under the pressure of necessity, has furnished rooms for the Law School, the School of Political Science, and the Department of Philosophy and Education, should be speedily devoted entirely to the use for which it was primarily intended, in order that the Library may serve the University and the public as it can and ought to do. But this is impossible until the Law School is furnished with a building of its own, and until in the completed University Hall, or elsewhere, rooms be found for the School of Political Science and for the Department of Philosophy and Education. The Department of Chemistry is sadly cramped in Havemeyer Hall, and in at least one laboratory three and even four students are assigned to the space intended for but one. A similar condition prevails

in several of the Engineering Departments. University Hall still stands unfinished, and it is estimated that the sum of \$1,000,000 will be needed to complete and furnish it, including the projected academic theatre, dining hall, and administrative offices.

If a beginning were made at once toward the relief of these material needs, it would be quite two years before the new buildings, or any of them, could be made ready for occupancy; and, unless all signs fail, by that time the pressure for additional room will be much greater than it is at present. To supply these buildings alone, the sum of over two and a quarter millions of dollars is necessary:

| For a Columbia College Hall           | \$500,000 |             |
|---------------------------------------|-----------|-------------|
| For a corresponding building, to make |           |             |
| provision for departments tem-        |           |             |
| porarily assigned to the Library,     |           |             |
| or now in inadequate rooms            | 400,000   |             |
| For a Law School Building             | 400,000   |             |
| To complete University Hall           | 1,000,000 |             |
| -                                     |           | \$2,300,000 |

Even if this sum were given to the University for the purposes named, we should still be without a chapel, without dormitories, and without an astronomical observatory suitable for teaching purposes. Every one of these buildings is needed, and needed

at once, if Columbia University is to offer the facilities that it should to the students who throng to it from every part of the United States. For reasons which I shall state below, the need for dormitories is especially urgent.

Furthermore, it is quite clear that the area of the site now occupied on Morningside Heights will be entirely insufficient for the work of the University in the very near future. The growth of the past few years has been so unexpectedly great, and the demands made upon our resources are multiplying so rapidly, that it is the part of wisdom to consider how we may acquire possession of additional land adjoining the present site. The land available for our uses is not great in amount, and its value is already high and likely to increase still more in the next few years. Yet, burdened with a heavy debt, as the University now is, the purchase of additional land is out of the question unless funds are given for that purpose. Every urban university is confronted by the problem of acquiring additional real estate at prices many times as great as those paid by the institutions situated in or near small cities, towns, and villages. Yet the problem of Columbia University in this respect is the most difficult of all, for while land in the vicinity of Harvard University can be purchased for about \$18,000 an acre, and in the vicinity of the University of Chicago for about \$50,000 an acre, land adjoining the present site of Columbia University is valued at more than \$200,000 an acre.

But great as is the cost of additional land, the need of Columbia University and its power to use effectively are still greater. Happily these facts and conditions have been seen and appreciated by a group of public-spirited men and women, and since the meeting of the Trustees in June last the property immediately south of the present site, popularly known as South Field, 9.315 acres in extent, bounded by 114th and 116th Streets, Amsterdam Avenue, and Broadway, has been purchased and offered to the University at its cost to the buyers, plus interest and taxes, provided the University will declare its intention to purchase the property on or before July 1, 1903.

Under date of June 23, 1902, Messrs. James Stillman, James Spever, and Stuvvesant Fish addressed a formal communication to the Trustees stating that they, together with Messrs. William E. Dodge, Archer M. Huntington, Edwin Gould, Isaac N. Seligman, D. Willis James, H. McK. Twombly, Samuel Thorne, George Foster Peabody, and Mrs. Henry Villard, had entered into a contract to purchase the property named, and that, the purchasers being desirous that Columbia University shall acquire the property, they offered an option to the University to purchase it on or before October 1, 1903,-provided that notice of intention to accept the option be given prior to July 1, 1903,-at cost, plus interest at four per cent., together with all taxes and assessments that may be levied in the interval. On June 28, Mr. Bangs, chairman of the Committee on Finance, wrote to Messrs. Stillman, Speyer, and Fish, acknowledging the receipt of their generous offer, and thanking them and their associates in the name of the University for their interest in its welfare and for their timely assistance. Mr. Bangs added that the Trustees regarded this land as essential to the future development of the University, and that they would endeavor by all means in their power to obtain the funds needed to accept the option within the prescribed time. If this option is accepted, and the welfare of the University demands that it shall be, the cost of the property will be almost exactly \$2,000,000

It is a significant fact, and one full of good omen, that this offer of assistance has come, unsolicited, from leading representatives of the financial interests of the City of New York. It is not too much to say that this is the first time in the history of Columbia that such an incident has occurred, and I interpret it to mean that the representatives of the finance, the commerce, and the industry of New York see the value and the importance of a great university in fullest touch with the life of this modern capital, and that they mean to cherish and to support it.

In addition to needed buildings and grounds, there is the financial problem presented by the existence of a heavy debt contracted in the purchase and development of the site on Morningside Heights. This debt amounts to nearly \$3,000,000, and was incurred for the following purposes:

| Ι. | For payment of one-half purchase          |             |
|----|---|-------------|
|    | price of present site, now bor-           |             |
|    | rowed on bond and mortgage                | \$1,000,000 |
| 2. | For cost of Engineering Building,         |             |
|    | now borrowed on bond and mort-            |             |
|    | gage\$300,400 9'                          | 7           |
| 3. | For cost of University Hall, Power        |             |
| 0  | House, and Gymnasium, now                 |             |
|    | borrowed on bond and mortgage. 997,865 61 | :           |
| 4. | For cost of grading and improving         |             |
| •  | site, and vaults, tunnels, paving         |             |
|    | adjacent streets and sidewalks,           |             |
|    | now borrowed on bond and mort-            |             |
|    | gage 611,833 10                           | >           |
| 5. | For interest on the above items,          |             |
| 5  | charged to the cost of the pro-           |             |
|    | perty, now borrowed on bond and           |             |
|    | mortgage 85,900 3                         | 2           |
|    |   | - 1.006.000 |

\$2,996,000

The net interest charge for these and other minor items of indebtedness was, for the year ending June 30, 1901, \$101,983.82. To meet this interest charge from the present resources of the University would involve a curtailment of educational work absolutely destructive alike to the University's prestige and to its usefulness. For the year ending June 30, 1901, this interest charge was entirely met by generous subscriptions from 45 different persons in amounts ranging from \$75 to over \$23,000. For the vear ending June 30, 1902, it appears that less than one-half of the interest charge will be met in this way, the remainder being unprovided for. Subscriptions to the interest fund amounting to \$46,250 have been received up to this date. It is apparent to me that it will not be possible to meet the full annual interest charge of, approximately, \$100,000 by small subscriptions, and I fear that it is equally futile to count upon meeting it from the somewhat increased income that the Upper Estate is expected to yield after 1907, because of the readjustment of rents following the expiry of existing leases. Every dollar of this increased income, and much more besides, will be needed for the support of the educational work of the University. In my judgment, therefore, there is but one policy to pursue in regard to the debt, and that is to make a vigorous and determined effort to pay it off at once through an appeal to the City of New York and the friends of Columbia elsewhere.

In this statement of our immediate material needs, I have not yet mentioned the additional endowment funds that must be had for general University purposes, for the organization of the projected Faculty of Fine Arts and for the proper development and equipment of the work of the Faculties of Applied Science and of Medicine, especially in the field of research.

Among the general University purposes for which new funds are desired, is the payment of better and more adequate salaries to the members of the teaching staff. While the cost of living in New York has steadily grown greater and the demands upon university teachers have multiplied, and while salaries at several other universities have been increased, those paid at Columbia have either stood still or suffered diminution. Men in middle life who have devoted years to the successful pursuit of investigation and to teaching in their chosen fields, are giving skilled service to the University for smaller compensation than is often paid to an experienced clerk. It is true that the scholar and teacher consciously foregoes the hope of large financial return for his labor and life-work, but nevertheless he should be able to live in comfort and to care for his family as befits his station in life. This cannot be done in New York on the salaries paid to a large number of the officers of instruction in Columbia University. Of 106 Professors and Adjunct Professors in 1901-02, only 49-less than one-half-received salaries of \$4000 or more. In not a few cases men in all respects worthy of promotion are kept in the post of tutor or instructor-with maximum salaries of \$1500 and \$2000 respectively-because no money is at hand with which to pay any higher compensation. As many as 126 teachers are now in the service of Columbia University on salaries of \$1000, or less. Every one of these has had a college education, and the vast majority have spent two or more years in residence at an American or foreign university as well, fitting themselves for their university career. In my judgment, the sum of \$50,000 a year, if added to the present expenditure for salaries, would enable the Trustees to do no more than offer moderate compensation to junior officers of instruction and to those of the Professors and Adjunct Professors whose salaries should be increased at the first opportunity.

To sum up this review of the financial needs of the University: The sum of \$10,000,000 is urgently needed by Columbia University, and in my judgment steps should be taken without delay to formulate a definite plan under which the public may be advised of this fact and the reasons for it, and appealed to for this large sum of money in the hope that it may be had in the not distant future. As already indicated, this \$10,000,000, when given, should be used as follows:

| I. | To pay the existing debt                        | \$3,000,000 |
|----|---|-------------|
| 2. | To accept the option to purchase the property   |             |
|    | immediately south of the present site on        |             |
|    | Morningside Heights, before July 1, 1903        | 2,000,000   |
| 3. | To build and equip a College Hall               | 500,000     |
| 4. | To complete and equip University Hall           | 1,000,000   |
| 5. | To build and equip a Law School Building        | 400,000     |
| 6. | To build and equip a building to give accom-    |             |
|    | modations to departments now overcrowded        |             |
|    | or temporarily assigned to the Library          | 400,000     |
| 7. | For general University purposes, including pro- |             |
|    | vision for the most pressing needs of the       |             |
|    | Schools of Applied Science and of Medicine      | 2,700,000   |
|    |   |             |

\$10,000,00

Large as this sum is, every dollar of it can be wisely, economically, and effectively used at once, for the purposes named. Nor does it by any means measure the extent of the University's need. I hope that in the near future we shall command the funds necessary to care fully for the work in Applied Science and in Medicine in the most efficient manner and to make proper provision for a Faculty of Fine Arts. The other buildings which have been mentioned —a chapel, dormitories, and an astronomical observatory—would be a still further charge. At present rates of interest, a capital sum of not less than \$5,000,000, over and above the \$10,000,000 named, would be needed in order to complete the University's equipment and to provide for its maintenance.

The mere mention of these enormous sums serves to indicate in some degree both the importance and the vast magnitude of the work of a great university in a great city. The impression that Columbia University is abundantly endowed and, in fact, has all the money it wants, has been almost universally accepted in this community and in the country for two generations, and has done untold harm. How this impression originated, I do not know; but it is just the reverse of the fact. Any ordinary business with assets of \$21,312,554.61 (the value of the property of Columbia University as reported to the Regents on June 30 last) and an indebtedness of only \$3,000,000 might well be regarded as highly prosperous; but a university's condition cannot be estimated in this manner. To pay the indebtedness out of the present assets would mean the stopping of some part of the educational work now

in progress, and that, as every one knows, would be a fatal blow at the University's reputation and effectiveness. For this reason, the extinction of the debt must come, I think, through the generous assistance of those whose privilege it is to be able and willing to endow higher education in the United States.

The burden of our present debt may best be appreciated by a few comparisons. It is three-fifths as great as the whole of the productive funds of Yale University in 1900, and more than one-half as great as the value of the productive funds of the University of Chicago in the same year. It is three times as great as the value of the grounds, buildings, and scientific apparatus of Amherst College. It is greater than the total annual income (exclusive of benefactions) in 1900 of Harvard, Yale, Princeton, and Chicago universities combined.

In my judgment, nothing is to be gained, and much may be lost, by failing to face the facts, and to ask the public to consider both the heavy burden of our debt and the great cost of the work which Columbia University has undertaken to do, and which it will and must do for the city and the nation. One result of the policy of expansion entered upon during the administration of President Low was to secure the confidence and support of the Alumni, and of the citizens of New York generally, to an extent previously unknown. Of the \$8,082,978 added to the resources of the University during the twelve years of President Low's administration, \$1,250,000 came through the consolidation of the College of Physicians and Surgeons, and the remainder was contributed by various benefactors, nearly \$2,000,000 of the amount being given by President Low himself and by other members of the governing board. There is every reason to believe, therefore, that the Alumni, the citizens of New York, and the friends of Columbia throughout the country will come to her support now, if the need, however large, is stated in plain and unmistakable terms in order that it may be fully understood and appreciated.

In almost every case the university administration of to-day is merely an expansion of the methods The Admin- and the machinery characteristic of the administration of the small colleges of yesistrative Problem terday out of which the universities have Administrative work has been done by grown. teachers in active service, and either as deans or as members of important committees they have divided their time between their books and laboratories and their classes on the one hand and their office duties on the other. More than one great teacher and investigator has been spoiled by this division of interest, and much administrative work has been very indifferently done by scholarly men to whom it was a necessary and an irksome task. Another troublesome and time-consuming duty is that of carrying on the very considerable volume of correspondence which finds its way to the desk of the head of a university department. Not only students and other teachers, but the general public, pour in letters of inquiry and request to the more widely known professors, to all of which courtesy requires that answer be made. While it may be true that some of this correspondence is personal in character, yet it is

equally true that the larger portion of it would disappear were the person to whom it is addressed no longer a university officer. It is in the University's interest that as little as possible of this administrative drudgery and clerical work be devolved upon the teaching force. It is important that the office of the Secretary of the University be equipped to dispose promptly of as much of the correspondence as possible, including that addressed primarily to the members of the teaching staff. The important faculty committees should be furnished with clerical assistance, so that the labor of the teachers serving upon the committees may be reduced to a minimum. Nor is there any good reason why the minutes of faculty meetings should be kept by a member of the faculty itself. The Secretary of the University or a member of his staff should be charged with such service. Finally, and much more important, the larger administrative posts should be held by men whose duties are largely, perhaps wholly, administrative and who either are, or may become, experts in that portion of the work of the University which is entrusted to their direct oversight and care. We should look forward to the time when the several deans will be in effect presidents of their respective schools or faculties, and as such relieve the President absolutely from any direct contact with matters of detail. It is clear that Columbia University has already reached the point where the time and the thought of the President must be given wholly to the study and consideration of large questions of policy and to the relations of the University to the community. This does not mean that the President

will not be informed as completely as before of what is being done, and how, in every department or school, but it means that he will know it through the reports of the dean immediately in charge. It might well be the part of wisdom for the President to give his attention one year to questions relating wholly to the teaching of medicine and surgery, another to questions relating wholly to instruction in applied science, another to questions relating wholly to the course of study leading to the degree of Bachelor of Arts, and so on; but he could not do this if burdened with the immediate care of the detail of the entire university administration. I think that the office of Dean will, and should, tend to become more and more important and to stand in increasingly close relations to the policy and the votes of the Trustees. What additional changes this relationship may involve, time alone can tell.

The wisest tendency in administrative development is, I am sure, to relieve teachers and investigators from every unnecessary demand upon their time and strength. The faculties must, of course, be legislative bodies and exercise legislative control over matters of educational policy falling within their several jurisdictions; but their members need not be called upon to serve as executive officers and clerks as well.

The University Council, established early in the administration of President Low, has been distinctly successful. It has been found competent to express the judgment of the teaching body as a whole upon new or disputed questions, and its legislative work has been constructive in high degree. More re-

cently, however, the Council has developed one element of weakness which diminishes the interest and the importance of its meetings. It has come to be too largely occupied in ratifying, pro forma, acts of one or more of the Faculties of Philosophy, Political Science, and Pure Science relating to candidates for higher degrees. Confirmatory resolutions and matters of mere routine, which do not touch upon any general university interest, have taken the time that might more profitably be given to the careful and prolonged consideration of questions of university policy. It may prove to be possible to devise a plan which, without effecting any radical changes, will tend to make the University Council more truly a deliberative body, charged with the initiative in important matters of university legislation, and at the same time set it free from much of the detail work which now occupies its attention.

There are occasions, too, when the calling together of the entire body of Professors would be of great advantage, and the Council might perhaps consider in what way such provision could best be made, and for what purposes such a plenary meeting should be called.

Any separation between financial and educational control in university administration would be as unwise as it is impracticable; but Columbia University has been fortunate, and in line with the best thought on the subject, in placing the initiative in all matters of education in the hands of the faculties or the University Council. We have been unusually successful in adjusting the administration and oversight of the University to modern conditions, and almost every policy now urged by students of educational administration is already in operation here.

Not a few matters of importance have been definitely settled at Columbia during the past twenty The Educa- years, and settled, I believe, in almost every case, with wisdom and in accordance tional Problem with sound principle. For example, it is settled policy at Columbia (1) that the requirements for admission to the Freshman class of Columbia College shall not be raised beyond the point where they can be met by the student who has had a normal secondary school course of four years; (2) that these requirements, and those for admission to the Schools of Applied Science, the College of Physicians and Surgeons, Barnard College, and Teachers College as well, shall be stated in terms of the definitions formulated by the representative organizations of teachers of the several subjects, and administered, in co-operation with other colleges and with secondary schools, through the College Entrance Examination Board; (3) that a just balance shall be maintained between prescribed and elective studies in the undergraduate course, the student being in every case guided or supervised in his selection of subjects; (4) that Columbia College shall offer but a single degree, that of bachelor of arts, and that that degree shall represent the elements of a liberal education as it is conceived and defined by the Faculty of Columbia College; (5) that the several technical and professional schools shall rest upon a college course (though not necessarily one four years in length) as a foundation, either at once-as in the case of the

School of Law—or as soon as practicable—as in the case of the Schools of Applied Science and of Medicine; and (6) that all possible means shall be taken to shorten the time in which a college degree and a professional or technical degree may be taken, by co-operation between the Faculty of Columbia College and the Faculties of Law, Medicine, Applied Science, and Teachers College.

Significant as these matters are, and seriously as they affect the relation of Columbia University to the public welfare, there are still others which claim attention and which yield to none in importance. Of these I may mention at this time five: The maintenance of educational efficiency; the promotion of research; the better organization of the teaching of the natural sciences; the development of the social side of academic life through the provision of dormitory accommodations for students; and the length of the College course and the relation of that course to the rest of the work of the University.

To secure and maintain educational efficiency is the most serious and ever-present aim of every institution of learning. Educational efficiency Educararely happens; it is made by careful plan tional and unremitting supervision. It is unattainable when poor teaching is permitted, particularly of elementary classes, and when standards are lowered for personal, social, or athletic reasons, or in order to secure a larger attendance of students. A low educational tone in a college or university rapidly communicates itself to the student body, with disastrous results.

It may justly be said of Columbia University, I

think, that it aims to enforce its standards strictly, and that it consciously makes no concession whatever to the desire for mere numbers. While the University has grown enormously in recent years it has done so in spite of the fact that almost every year some step, administrative or legislative, has been taken to raise the standards of admission and graduation in the several Schools. We are more concerned about the quality of the work done than about a rapid increase in the number of students, and we wish to do thoroughly well that which has been already begun before branching out into new undertakings that further tax our resources and divide our energies.

I find myself in hearty agreement with the recently expressed opinion of President Jordan of Stanford University that "in the long run, the greatest university will be the one that devotes the most care to its undergraduates," and for that reason I believe that too much care and attention cannot be given to the students in Columbia College. The student who comes to Columbia College must be thoroughly well taught from the very beginning of the Freshman year; and the reading of lectures or the hearing of prepared recitations is not teaching. It is primarily the duty of the head of each department, and after him the duty of the Dean and of the President, to make sure that the undergraduate teaching is really good and helpful. To make this possible, only tried and experienced teachers should be put in charge of class-room work, and only those should be appointed to teach who add to scholarship, however great, the gifts of sympathy and teaching skill.

In the professional and technical schools of the country the highest educational efficiency is constantly jeopardized by the habit of laying undue emphasis upon devices and matters of method to the neglect of fundamental principles which underlie any given technique or application of scientific theory. Devices and methods change with startling rapidity,—in medicine and in electrical engineering, for example,-and the student who has mastered only devices finds himself helpless under new conditions. On the other hand, the student who has carried away from his period of university residence a thorough grasp of the fundamental principles upon which the practice of his profession depends, will adapt himself easily to new methods and devices, and will, indeed, invent them. In common with other universities, we at Columbia need to guard this point carefully in our professional and technical instruction.

The best teacher is a constant student, and the constant student sooner or later tends to become an investigator. The terms investigation and Promotion original research have been so parodied and of Research abused of late, that their real significance is not understood and valued as it should be. Yet these terms stand for the idea which differentiates the university from the college. We shall not reach an ideal condition until every department in the University, without exception, regards itself as charged with the duty of investigating as well as with that of teaching. Among its advanced students there should always be a group of those who are being trained in the methods by which real investigation

is alone possible; the spirit of investigation and the pursuit of new truth should pervade every university department from top to bottom.

Since 1880, Columbia University has laid increasing emphasis upon research and training for research, and in the interval very much has been accomplished. We are not yet able, however, to give to the men most competent to carry on prolonged researches the leisure or the opportunity to prosecute them to the best advantage. It is to be hoped that the trustees of the Carnegie Institution will see the wisdom and the economy of supplementing the facilities for research already offered by the American universities, and so strengthen much that is already being done and well done.

Despite the fact that large sums of money are spent annually by Columbia University upon the departments giving instruction in the natural The sciences, and although the best possible Natural Sciences material provision has been made for those departments, the instruction in these subjects at Columbia has never been systematically organized. The instruction in the natural sciences grew up, for the most part, outside of Columbia College, chiefly in connection with the original School of Mines. It filtered back, so to speak, into the College when the elective system was introduced and as that system developed. The School of Pure Science was organized in 1892 as a graduate school, out of the departments of natural and exact science as they then existed in the School of Mines and in Columbia College.

Perhaps one reason for the delay in the syste-

matic organization of instruction in the natural sciences is to be found in the fact that much educational experimenting was necessary before the material was at hand with which to form a judgment as to how this instruction could be best organized. The older subjects of study-Greek, Latin, mathematics-have long had what may be called a fixed educational form, which was in use in schools and colleges the world over. The newer subjects-English, history, the modern European languages, the natural sciences-have had to feel their way toward such a form, and even now complete agreement as to what that form should be has not been reached. But with us at Columbia the proper organization of our great opportunities for study in the field of natural science is of pressing importance and cannot be delaved. We have several different types of student to provide for, and we owe it to ourselves and to them to make the best possible provision for them speedily.

With a view to securing an expert opinion as to what is best to do, I have asked Professors James McK. Cattell, of the chair of psychology, Robert S. Woodward, of the chair of mechanics and mathematical physics, and Edmund B. Wilson, of the chair of zoölogy, to act as a special committee to prepare a report upon the organization of instruction in the natural and exact sciences at Columbia University. Their very suggestive response to this request, made under date of May 29, 1902, is printed as Appendix 4 to this Report (pp. 89-99). I shall seek an early opportunity to bring the suggestions of this committee formally to the attention of the Committee on Education and to that of the faculties concerned. These suggestions will serve as an admirable point of departure for the consideration of the matter to which they relate.

To provide, particularly for undergraduate students, those influences and advantages which attach to student residence in college buildings Provision means the erection of dormitories. The for Dormitories living together of college students is that characteristic of college education which marks it off most sharply from secondary instruction. Students in college are, or ought to be, figuratively at least, away from home and members of a community of their own. College life and college spirit are real things as well as most effective educational instrumentalities. It is living together, not attending classes or listening to lectures together, which develops that strong attachment to Alma Mater, its ideals and its interests, which counts for so much both in the life of the individual student and in that of the University. Columbia University is sadly in need of dormitories, not only that the students may be comfortably, economically, and-so to speakacademically housed, but also in order that they may have the full benefits of college and university residence. The fear that students would not remain in New York or would not come to New York for a college education is no longer entertained. The facts have dispelled it. It is found that healthful surroundings and conditions, proper physical exercise, and freedom from undue interruption may be had on Morningside Heights as well as, or better than, in towns and villages a hundred miles away.

Country life and the conditions of life in a rural college may be better for some students; city life and the conditions of residence in an urban college may be better for others. Neither is absolutely the better, and both are excellent. But to make the comparison, or the contrast, at all fair, the city college must offer the advantages and attractions of dormitory life. I wish that we might speedily have dormitories erected for us on the South Field which we hope soon to own, and that they might, when built, enclose a campus for Columbia College about which will centre the memories and the affections of generations of grateful students. It should always be borne in mind that a dormitory is the one type of building used by a university from which an income may be derived. A gift of \$400,000, for example, if used for the building of dormitories, would provide, in perpetuity, an annual income of between \$18,000 and \$20,000 for the University.

I have pointed out that it is held to be settled policy at Columbia University that the several technical and professional schools shall rest upon a college course of liberal study as a foundation (although not necessarily upon a course four years in length), either at once or as soon as practicable. The School of Law has already been placed upon the basis of a graduate

school, to take effect July 1, 1903. On December 20, 1898, the University Council recommended that the College of Physicians and Surgeons be made a graduate school as soon as such a step is financially practicable. The Schools of Applied Science have constantly in mind a similar step, and much

consideration has been given by the Faculty to the best way of bringing about the change without undue sacrifice. This policy, however, does not pass unchallenged. It has recently been criticised and opposed in a cogent and noteworthy argument by President Hadley of Yale University in his annual report for the year 1901-02, on the grounds (1) that it tends to make the professions exclusive in a bad sense, (2) that it leads to a remodeling of the college course to meet the needs of intending professional students, which remodeling is at least a doubtful experiment, and (3) that it establishes an unfortunate distinction between the universities which require a bachelor's degree as a condition of admission to the professional schools and those which make no such requirement. This policy is also criticised and opposed by many intelligent persons, trusted leaders of public opinion, not university teachers or administrators, who are impressed by the fact that the whole tendency of our modern educational system is to prolong unduly the period of preparation or studentship, with the result that an increasing number of young men are held back from active and independent participation in the practical work of life until they are nearly, or quite, thirty years of age. In the face of such objections as these it is obvious that we at Columbia must consider carefully the probable social and educational effects of the policy upon which we have entered.

The questions raised in the discussion of this policy are to be decided, it seems to me, from the standpoint of the duty of the University to the public and to its own educational ideals. Two interests are immediately at stake: the standards of professional study in a university, and the place of the American college in the higher education of the twentieth century. I doubt whether the two interests can be separated in any adequate consideration of the subject.

President Eliot of Harvard University impressively set forth the responsibilities and the opportunities of the learned professions in his address at the Installation ceremonies on April 19 last, when he said:

"It is plain that the future prosperity and progress of modern communities is hereafter going to depend much more than ever before on the large groups of highly trained men which constitute what are called the professions. The social and industrial powers, and the moral influences which strengthen and uplift modern society are no longer in the hands of legislatures, or political parties, or public men. All these political agencies are becoming secondary and subordinate influences. They neither originate nor lead; they sometimes regulate and set bounds, and often impede. The real incentives and motive powers which impel society forward and upward spring from those bodies of welltrained, alert, and progressive men known as the professions. They give effect to the discoveries or imaginings of genius. All the large businesses and new enterprises depend for their success on the advice and co-operation of the professions."

With such an ideal as this held up before the student of law, of medicine, of divinity, of teaching, of architecture, or of applied science, what standard of excellence shall the university require of him when he enters upon his professional studies? Three answers seem to be possible: The university may require (I) the completion of a normal secondary school course of four years, and so put admission to the professional and technical schools on a plane with admission to college, or (2) the completion of the present college course of four years, or (3) the completion of a shortened college course.

When weighing the advantages and disadvantages of these several lines of action, it should be borne in mind that a uniform policy on the part of all universities in dealing with this question is not necessary and may not be desirable. We are directly concerned with the question so far as it concerns the duty and the interest of Columbia; but the universities having different social and educational needs to meet, and somewhat different ideals to labor for, may be wise in reaching a conclusion guite different from that which most commends itself to us. This consideration seems to me to meet the third of President Hadley's objections already referred to. Furthermore, the universities do not control admission to the practice of the professions, and it is not in their power, as it is certainly not their wish, to shut out from his chosen profession any competent person whatever his training or wherever it has been had. If the standards of professional study required by the universities are higher than the minimum fixed by law, no one will attend a university for professional study unless its standards appeal to him and unless he hopes to find ultimate gain by conforming to them at some expense of both time and money. On the other hand, if the universities make the minimum standards fixed by law their own, —and only by so doing can they avoid discriminating against some one,—then they seem to me to have abdicated their functions as leaders in American intellectual life. The result would quickly be seen, I am sure, in the falling off of popular favor and support. These facts appear to meet the first of President Hadley's objections. His second objection involves a discussion of the significance of the college course, a subject which I shall consider in its proper place.

Columbia University cannot be satisfied with a requirement of only secondary school graduation for admission to the professional and technical schools for several reasons:

1. Such students at 17 or 18 years of age (or, as should be the case, at 16 or  $16\frac{1}{2}$  years) are too immature to carry on a severe course of professional study with profit.

2. When such students predominate, or form a large proportion of the total number attending any given professional school, the teaching deteriorates and the instruction tends to become either superficial or unduly long drawn out and wasteful of time.

3. Other institutions in various parts of the country afford the fullest opportunity for students who are compelled to remain satisfied with the shortest possible preparation for the practice of a profession, and Columbia would not be justified in using its funds merely to add to a provision which is already ample. Columbia offers the most generous assistance to students who are able and willing to meet its standards and who need help in order to carry on their studies, but is not willing to lower those standards at the cost of social and educational effectiveness.

4. Secondary school graduates, however well taught, are necessarily without the more advanced discipline in the study of the liberal arts and sciences and without that wider outlook on the world of nature and of man which it is the aim of the college to give. It is our hope and wish that those who hold professional or technical degrees from Columbia University will be not only soundly trained in their chosen professions, but liberally educated men as well. No stress is laid upon the college degree as a mere title, but it is held to stand, in the vast majority of cases, for greater maturity of mind and broader scholarship.

5. For Columbia University to admit students to the professional and technical schools upon the same terms as those by which admission to the College is gained, would be to throw the weight of our influence against college education in general and against Columbia College in particular. After a few years, no student who looked forward to a professional career would seek admission to Columbia College, or to any other, except those who had ample time and money to spare.

On the other hand, while I hold a secondary school education to be too low a standard for admission to professional study at Columbia University, personally I am of opinion that to insist upon graduation from the usual four-years' college course is too high a standard (measured in terms of time) to insist upon, and an unsatisfactory one as well. My view of the matter is concurred in by the Dean of Columbia College, by the Dean of the Faculty of Law, and by the Dean of Teachers College, as will be seen by reference to their annual reports, which accompany this document and are a part of it.

My objections to making graduation from a fouryears' college course a prerequisite for professional study at Columbia University are mainly two:

I. I share the view, already alluded to, that the whole tendency of our present educational system is to postpone unduly the period of self-support, and I feel certain that public opinion will not long sustain a scheme of formal training which in its completeness includes a kindergarten course of two or three years, an elementary school course of eight years, a secondary school course of four years, a college course of four years, and a professional or technical school course of three or four years, followed by a period of apprenticeship on small wages or on no wages at all.

2. Four years is, in my opinion, too long a time to devote to the college course as now constituted, especially for students who are to remain in university residence as technical or professional students. President Patton of Princeton University voiced the sentiments of many of the most experienced observers of educational tendencies when he said that: "In some way that delightful period of comradeship, amusement, desultory reading, and choice of incongruous courses of what we are pleased to call study, which is characteristic of so many undergraduates, must be shortened in order that more time may be given to the strenuous life of professional equipment." For quite twenty years President Eliot has advocated this view and in arguments which have seemed to me unanswerable, under the conditions existing at Harvard, has urged that the degree of bachelor of arts be given by Harvard College after three years of residence.\* At Columbia, and elsewhere, the practice of counting a year of professional study as a substitute for the fourth or Senior year of the college course has in effect established a three-years' college course for intending professional and technical students. The degree has been withheld until a vear of professional study has been completed, in deference to tradition rather than from sound educational principle. In this way new conditions have been met without the appearance of shortening the college course. While the policy hitherto pursued in this regard was justified as a beginning toward a readjustment of the relations between the college and the professional and technical schools, it is hardly to be upheld as a final solution of the problems presented. From my point of view it is open to criticism in that it (1) shortens the college course without appearing to do so, (2) divides the

\* After this report was in type it was announced that hereafter the degree of A.B. will be conferred by Harvard College upon students who complete the requirements for the degree in three years at once and without an additional year's delay, as heretofore. Somewhat similar announcements have also been made by the University of Pennsylvania and by Brown University.

interest of the student in a way that is satisfactory neither to the college nor to the faculties of the professional schools, and (3) fails to give the full support to a college course of purely liberal study which is so much to be desired.

There remains a third line of action, namely, that of basing admission to the professional and technical schools of the University upon a shortened course in Columbia College or its equivalent elsewhere. This I believe to be the wisest plan for Columbia University to adopt, as well as the one whose general adoption would result in the greatest public advantage.

One consideration of vital importance appears to have been overlooked in the numerous discussions of this whole matter, and that is the fact that Length of there is no valid reason why the college the College Course course should be of one uniform length for all classes of students. The unnecessary assumption of the contrary view has greatly complicated the entire question, both in the public and in the academic mind. It must be remembered that for the intending student of law, medicine, or applied science who goes to college, three or four additional years of university residence and study are in prospect after the bachelor's degree has been obtained: For the college student who looks forward to a business career, on the other hand, academic residence closes with graduation from college. For the latter class, therefore, the college course may well be longer than for the former. While two, or three, years of purely college life and study may be ample for the man who proposes to remain in the university as a professional or as a technical student, three, or even four,

years may be desirable for him who at college graduation leaves the university, its atmosphere, its opportunities, and its influence, forever.

It must be remembered, too, that the four-years' college course is merely a matter of convention, and that there are many exceptions to the rule. The Harvard College course was at one time but three years in length, and the collegiate course at the Johns Hopkins University has been three years in length from its establishment. The normal period of residence for an undergraduate at both the English and the Scottish universities is three years. President Wayland of Brown University, who was in so many ways a true prophet of educational advance, devised a plan for a normal three-years' college course over half a century ago. The question is not so much one of the time spent upon a college course as it is one of the quality of the work done and the soundness of the mental and moral training given. The peculiar service which the college exists to perform may be done in one case in two years, in another in three, in another in four, and in still another not at all.

Since 1860 the changes in American educational conditions have been revolutionary, and as one result the content of the A.B. degree has been wholly altered and that degree has been elevated, at Columbia College at least, to a point almost exactly two years in advance of that at which it then was. In other words, despite the fact that college admission requirements have been raised and much of the instruction once given in college is now given in the secondary schools, particularly the public high

schools, the bachelor's degree has been held steadily at a point four years distant from college entrance, with the result that the average age of college students at graduation has greatly increased. Since 1880 the average age of the students entering Columbia College has increased exactly one year, and while no adequate statistics for 1860 are available, it appears to be true that the average age of admission in 1880 was one full year higher than in 1860. The Registrar has made a careful examination of the official records, and reports that in Columbia College we are demanding two years more of time and work for the degree of bachelor of arts than was required in 1860, and one year more of time and work than was required in 1880. President Hyde of Bowdoin College has recently said that "Nearly all the distinguished alumni of Bowdoin College graduated at about the present average age of entrance, and were well launched on their professional careers at about the age at which our students now graduate." He cited the cases of Jacob Abbott and William Pitt Fessenden, who were graduated before they were seventeen; Longfellow, who was graduated at eighteen; Franklin Pierce, John A. Andrew, Fordyce Barker, and Egbert Smyth at nineteen; and William P. Frye and Melville W. Fuller at twenty. Instances might readily be multiplied from the records of the American colleges. The recent statistics compiled by Dean Wright of the Academical Department of Yale University, which show the average age of graduation of the members of the class of 1863 at Yale to have been 22 years, 10 months, and 17 days and that of the members of the class of 1902 to have been 22 years, 10 months,

and 20 days, point to what appears to be a striking exception, not yet explained, to the general rule.

So long as there were no graduate schools, and therefore no genuine universities, in the United States, and when the bachelor's degree was the highest academic distinction to be gained in residence, it was sound academic and public policy to make the requirements for the degree of bachelor of arts as high as possible. It was the only mark of scholarship that the colleges could give. As a result, the average age at graduation increased. Now, however, conditions have entirely changed. Nearly, or quite, one-half of the work formerly done in college for the degree of bachelor of arts is now done in the rapidly increasing number of secondary schools, particularly public high schools, and no small part of it is required for admission to college. This does not appear if the comparison be restricted to admission requirements in Greek, Latin, and mathematics; but it is clearly evident when the present admission requirements in English, history, the modern European languages, and the natural sciences are taken into account. The standard of scholarship in this country is no longer set by the undergraduate courses in the colleges or by the time devoted to them, but by the post-graduate instruction in the universities and by the requirements demanded for the degree of doctor of philosophy.

These being the undisputed facts, it would appear to be wise, and possible, to treat the length of the college course and the requirements, both in time and in accomplishment, for the degree of bachelor of arts from the standpoint of present-day needs and the largest social service.

In my opinion it is already too late to meet the situation by shortening the college course for all students to three years, although such action would be a decided step forward so far as the interests of intending professional and technical students are concerned. When President Eliot first proposed a three-years' course for Harvard College, the suggestion was, I think, a wise one. But in the interval conditions have changed again. If we at Columbia should be willing to go no farther than to reduce the length of the college course from four vears to three, we should (1) find it impracticable both on financial and on educational grounds to require that course as prerequisite for admission to the Schools of Applied Science, and, possibly, to the School of Medicine, and (2) we should be unable to resist the pressure for further reconstruction and rearrangement that would be upon us before our work was completed and in operation. My own belief is that Columbia University will perform the greatest public service if it establishes two courses in Columbia College, one of two years and one of four years,-the former to be included in the latter,-and if it requires the satisfactory completion of the shorter course, or its equivalent elsewhere, for admission to the professional and technical schools of the University. By taking this step we should retain the College with its two years of liberal studies as an integral element in our system, shorten by two vears the combined periods of secondary school, college, and professional school instruction, and yet enforce a standard of admission to our professional schools which, both in quantity and in quality, is on a plane as high as the Columbia degree of bachelor of arts of 1860, which was recognized as conforming to a very useful standard of excellence. At the same time we should retain the four-years' course with all its manifest advantages and opportunities for those who look forward to a scholarly career, and for as many of those who intend to enter upon some active business after graduation as can be induced to follow it.

Under such a plan we should have in Columbia College four different classes of students: (1) those who were taking the shorter course of two years in preparation for a technical and professional course, and who would therefore look forward to a total university residence of five or six years; (2) those who were taking the shorter course of two years but without any thought of subsequent professional or technical study; (3) those who felt able to give the time necessary to take the longer course of four years before entering a professional or technical school; and (4) those who, as now, take the fouryears' college course without any intention of technical or professional study. The second class of students would be a new and highly desirable class, and would be, for the most part, made up of earnest young men seeking a wider and more thorough scholarly training than the secondary school can offer, but unable to devote four years to that end. The third class of students would be able, by a proper selection of studies in the later years of their college course, either to enter a professional school with advanced standing or to anticipate some of the preliminary professional studies and to devote the time so gained to more intensive professional work. Undoubtedly many students who now take a fouryears' undergraduate course with no professional or technical end in view would take the shorter course, and that only, but on the other hand numbers of students would come to college for a course of two years who when obliged to choose between a four-years' course and none at all are compelled to give up college altogether. The final result of the changes would certainly be to increase the total number of students taking a college course of one length or another.

The Dean of Columbia College is of the opinion that such a shortened course of two years as is contemplated by this suggestion could readily be made to include all of the studies now prescribed at Columbia for candidates for the degree of bachelor of arts. This shortened course would, therefore, take on something of the definitiveness and purpose which in many cases the rapid developments of recent years have removed from undergraduate study; for it goes without saying that no effort would be spared to make such a two-years' course as valuable as possible, both for intellectual training and for the development of character. The student would be a gainer, not a loser, by the change.

If Columbia College should offer two courses in the liberal arts and sciences, one of two years and one of four years in length, the second including the first, the question would at once arise as to what degrees or other marks of Master of of academic recognition would be conferred upon students who had satisfactorily completed them.

Two answers appear to be possible. First, we may withhold the bachelor's degree until the completion of the longer course, and grant some new designation to those who satisfactorily complete the shorter This has been done at the University of course. Chicago, where graduates of the junior college course of two years are made Associates in Arts. Or we may degrade-as it is called-the bachelor's degree from the artificial position in which the developments of the last forty years have placed it, and confer it upon the graduates of the shorter course of two years, and give the degree of master of arts for the longer course of four years. The latter alternative would be my own preference. Such a plan would bring the degree of bachelor of arts two years earlier than now and would place it substantially on a par with the bachelor's degree in France, the Zeugniss der Reife in Germany, and the ordinary degree in course as conferred by the English and the Scottish universities. It would also be substantially on a par with the Columbia College degree of 1860.

In this connection it must be remembered that it is not the A.B. degree of to-day which is so much extolled and so highly esteemed as the mark of a liberal education gained by hard study and severe discipline, but that of one and two generations ago. The A.B. degree of to-day is a very uncertain quantity, and time alone will show whether it means much or little.

The degree of master of arts is an entirely appropriate reward for the completion of a college course, under the new conditions proposed, four years in length. This degree has been put to many varied uses and has no generally accepted significance. In Scotland it is given in place of the degree of bachelor of arts at the close of three very short years of undergraduate study. In England it signifies that the holder is a bachelor of arts, that he has lived for a certain minimum number of terms after obtaining the bachelor's degree, and that he has paid certain fees. In Germany it is usually included in the degree of doctor of philosophy. In the United States the degree is more often than not a purely honorary designation; although in recent years the stronger universities have guarded it strictly and now grant it for a minimum period of graduate study for one year in residence. At the meeting of the Association of American Universities in February last there was a very interesting discussion on the subject of this degree, and the divergence of policy in regard to it was made plainly evident. As an intermediate degree between those of bachelor of arts and doctor of philosophy, that of master of arts has been and is very useful at Columbia. It marks the close of a period of serious resident graduate study, and is an appropriate reward for the work of those university students who have neither the inclination nor the peculiar abilities and temperament to fit themselves for successful examination for the degree of doctor of philosophy. At the same time it must be admitted that the rapid development of the elective system and the widely different standards of the scores of colleges from which our graduate students come, have almost wiped out the distinction between the Senior year in Columbia College and the first year of graduate study. To the best of my knowledge and belief, the fixing of the degree of master of arts at the close of a four-years' undergraduate course would involve no real alteration in the standard required on the part of those coming to Columbia from other institutions. For students of Columbia College it would bring the degree within reach after four years of residence instead of five.

In the case of candidates for the degree of doctor of philosophy, the completion of the longer college course, or its equivalent elsewhere, would of course be required, and also the same minimum period of post-graduate resident study as now. There would be no alteration in the time necessary or the standard now set for that degree, which as conferred at Columbia is recognized as conforming to the highest and best standards.

With the courses in applied science and in medicine fixed at four years, to base them upon a twoyears' college course would be to elevate them to a proper university standard and to ensure the best possible class of students. The Law School and the professional courses in Teachers College could easily be put upon the same basis.

Reflection and a careful study of the facts will make it apparent that these suggestions are less radical than seems to be the case on first sight. They at least offer a solution to a generally recognized problem, one which has often been pointed to but toward the solution of which little progress has been made. I shall seek an early opportunity of bringing them before the University Council and the several Faculties for full consideration and discussion.

Should Columbia University adopt such a policy

as has been outlined, and should the same or a similar policy commend itself to the governing bodies of any other American universities whose The Future problems are similar to ours, a development already in progress throughout the country American College would be hastened. As the public high schools multiply and strengthen they will tend more and more to give the instruction now offered in the first year, or first two years, of the college course. In so far, they will become local colleges, but without the characteristic or the attractiveness of student residence. Furthermore, the time would sooner come when colleges, excellent in ideals and rich in teaching power but without the resources necessary to carry on a four-years' course of instruction satisfactorily, will raise the requirements for admission to a proper point and then concentrate all their strength upon a thoroughly sound course of two years leading to the bachelor's degree. More depends upon the strict enforcement of proper standards of admission to college than is generally believed; that is at present the weakest point in college administration. The general standard of college education in the United States would be strengthened more if the weaker colleges would fix and rigidly enforce proper entrance requirements and concentrate all their money and energies upon two years of thorough college work than if they continue to spread a college course over four years with admission secured on nominal terms or on none at all.

The policy outlined would, I think, largely increase the number of students seeking a college education, and many who might enter one of the stronger colleges for the two-years' course would remain for four years. The loss of income due to the dropping out of students after two years of residence would be more than made good very soon by the large increase in college attendance.

As the system of higher education in the United States has developed it has become apparent that we have substituted three institutions-secondary school, college, and university-for the two-secondary school and university-which exist in France and Germany. The work done in the United States by the best colleges is done in France and Germany onehalf by the secondary school and one-half by the university. The training given in Europe differs in many ways from that given here, but from an administrative point of view the comparison just made is substantially correct. The college, as we have it, is peculiar to our own national system of education, and is perhaps its strongest, as it certainly is its most characteristic, feature. It breaks the sharp transition which is so noticeable in Europe between the close surveillance and prescribed order of the secondary school and the absolute freedom of the university. Its course of liberal study comes just at the time in the student's life to do him most good, to open and inform his intelligence and to refine and strengthen his character. Its student life, social opportunities, and athletic sports are all additional elements of usefulness and of strength. It has endeared itself to three or four generations of the flower of our American youth and it is more useful to-day than at any earlier time.

For all of these reasons I am anxious to have it

preserved as part of our educational system and so adjusted to the social and educational conditions which surround us that a college training may be an essential part of the higher education of an American whether he is destined to a professional career or to a business occupation. It seems to me clear that if the college is not so adjusted it will, despite its recent rapid growth, lose its prestige and place of honor in our American life, and that it may eventually disappear entirely, to the great damage of our whole educational system.

The academic and administrative work of the year has progressed satisfactorily. The very elaborate Report of the Registrar of the University, The Year which is attached to this Report and made <sup>1901-02</sup> a part of it, gives in fullest possible detail information regarding the number and composition of the large body of students, 5134, enrolled in the University. Of this total, the enrolment in Columbia College and in the schools under the immediate jurisdiction of the Trustees was 3481. In Barnard College the enrolment was 339 and in Teachers College 1534. There were 220 duplicates, or double registrations.

The reports of the several Deans, of the Director of the Summer Session, of the Librarian, and of the Director of the Gymnasium are also made a part of this Report, and the attention of the Trustees is earnestly invited to the information which they contain and to their several suggestions and recommendations.

The gifts and bequests received during the year 1901–02 are named in detail in Appendix Gifts and 4 (p. 100) to this Report. They may be Bequests summarized as follows:

## COLUMBIA UNIVERSITY

|                       | Columbia<br>University | Barnard<br>College | Teachers<br>College | Total          |
|-----------------------|------------------------|--------------------|---------------------|----------------|
| To Establish Trust    |                        |                    |                     |                |
| Funds                 | \$274,533 44           | \$397,050 00       | \$ 2,500 00         | \$ 674,083 44  |
| For Buildings and     |                        |                    |                     |                |
| Grounds               | 20,351 63              |                    | 169,309 42          | 189,661 05     |
| For Current Interest. | 93,983 82              | 3,000 00           |                     | 96,983 82      |
| For Immediate Use.    | 32,577 71              | 3,240 00           | 86,035 00           | 121,852 71     |
|                       |                        |                    |                     |                |
| . Total               | \$421,446 60           | \$403,290 00       | \$257,844 42        | \$1,082,581 02 |

The most important legislative act of the year was the amendment of the Statutes, on June 2, 1902, setting off the Department of Architecture The Fine and the Department of Music from the juris-Arts diction of the Faculties of Applied Science and of Philosophy, respectively, in order that these departments may serve as the nucleus for an adequate and creditable university School of Fine Arts in the future. This significant step puts into effect a recommendation made many years since by President Barnard and renewed from time to time by President Low, that the fine arts should be more fully developed and separately organized at Columbia University. Until funds are provided by those to whom this side of university training makes a particularly strong appeal, little more is possible than has just been done. But even so much serves to demonstrate to the University itself and to the public that we recognize the importance of the fine arts in education and in life and that we are ready and anxious to develop a School of Fine Arts which shall be in all respects worthy of Columbia and of New York. Through co-operation with the Trustees of the Metropolitan Museum of Art, so that their

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increasingly valuable and important collections may become fully available for the purpose of illustrating university instruction in the fine arts, much might be quickly accomplished if only we could command the means to provide a suitable building for a School of Fine Arts and to endow professorships of the history and criticism of art, of painting, and of sculpture. Professors Ware, Hamlin, and Sherman of the Department of Architecture, and Professor MacDowell of the Department of Music have entered most heartily into the plan and their aid and suggestions have added much to its practical value.

As was pointed out to the Trustees by the Committee on Education in their report on this subject made on May 5 last, it is no part of our plan for a university School of Fine Arts that it shall give that practical instruction in the arts which in the Middle Ages was known as their "art, mystery, and manual occupation." This indispensable training would not be given by the University itself, but it would come more or less under university supervision, and would be recognized when adequately given in ateliers, conservatories, and private or incorporated schools. The University would give the historical, philosophical, and theoretical instruction, while other teachers and organizations would provide the practical training and apprenticeship which is a necessary part of all art education.

Such a School of Fine Arts as is in contemplation would serve a most useful purpose in keeping steadily before the students and the community the fact that some knowledge of art and some appreciation of it is an indispensable part of any real culture, and that

without this knowledge and appreciation there can be no adequate comprehension of some of the most significant periods in the history of civilization. Of the five great aspects of civilization which have appeared in history,-the scientific, the literary, the institutional, the religious, and the æsthetic,-Columbia University makes full provision for three only. Admirable and praiseworthy as are the religious influences at work throughout the University, they must lack much until they may centre about a university chapel, adequately endowed for its proper work. Excellent, also, as are the beginnings which have been made in the study and teaching of the fine arts and of archæology, they must remain only beginnings until a School of Fine Arts is organized to represent and to develop them properly.

Upon the election of the Professor of Philosophy and Education to the Presidency of the University it was referred to the Committee on Edu-Reorganication to consider what changes, if any, zation of should be made in the organization of that Departments department and what permanent provision should be made for it. After careful consideration the Committee on Education recommended a plan, which was adopted by the Trustees on March 3, by which Education was erected into a separate and independent department, such department to consist of Teachers College acting through its representatives upon the Faculty of Philosophy; by which Anthropology was set off from Psychology, with which it had been associated since its establishment in the University, and made a separate and independent department with Professor Franz Boas

as its head; and by which Philosophy and Psychology were joined in a new department of that name with Professor Cattell as its administrative head. The vacant professorship of philosophy was filled by the election of Frederick J. E. Woodbridge, A.M., Professor of Philosophy in the University of Minnesota, a graduate of Amherst College in the class of 1889, a scholar and teacher of experience and high promise.

The details of this reorganization are of more than mere administrative interest. They mark the new and growing importance which is attached to Anthropology as a subject of investigation and instruction; the fact that while Psychology has taken on, in many ways, the form of a natural science, its dependence upon Philosophy and its relation to it are as close as ever; and the development of Education to a point where it can stand alone and without the special support of Philosophy, on which it depends. Every attempt to develop Education as a university subject apart from Philosophy has resulted in making it merely a more or less formal and futile discussion of school-room methods or an attempt to formulate a very doubtful body of educational doctrine. At Columbia, Education, from the very first instruction given in the subject, in 1886, has been held in close touch with the history and criticism of philosophy. As a result, it is now upon a sound philosophical foundation and no longer needs to have that fact emphasized in matters of organization and administration. It is a pleasure to think that a project so dear to the heart of President Barnard, and so fully and ably set forth in his

annual reports for 1881 and 1882, has been carried out with a fulness of detail and a completeness of equipment which even his prophetic vision could hardly have foreseen.

The Department of Chinese, the endowment of which was announced in President Low's report for 1901, has been made the subject of careful Departstudy during the year. The fund for its ment of Chinese support now amounts to \$213,000. Generous as this sum is, it seems wise to treat it as only the beginning of an endowment which, recruited from various sources, will one day be sufficient to warrant us in undertaking the scientific study of the culture and history of all the peoples of Eastern Asia, including those of the Malay Archipelago, now of such special interest to the people of the United States. The problems presented have been considered at length and in their several aspects. Professor Herbert Allen Giles, of the Department of Chinese at the University of Cambridge, accepted the invitation of the Trustees to deliver a series of lectures on China and the Chinese, upon the Dean Lung Foundation, and to act as their adviser in the formulation of plans for the permanent organization of the Department of Chinese at Columbia University. The lectures of Professor Giles were of exceptional interest, and, in response to many requests, have been published in book form by the Columbia University Press.

It appears from the results of an inquiry conducted by Professor Boas, confirmed by Professor Giles, that in Europe the study of the peoples of Eastern Asia is carried on from three distinct points of view. These are (1) the philological and literary, which is mainly represented in the universities; (2) the ethnographic and anthropologic, which is chiefly represented in the museums; and (3) the practical, which is chiefly represented in the separate schools for instruction in the Oriental languages. As a general rule, these three classes of institutionsthe universities, the museums, and the separate schools-work independently of one another, with a consequent waste of money and of energy and a loss of possible effectiveness. These we wish to avoid; and it is confidently believed that through co-operation with the Trustees of the American Museum of Natural History, who have already begun the gathering of a collection of material illustrating Eastern Asiatic culture, we can avoid them.

The first Dean Lung Professor of Chinese is Friedrich Hirth, member of the Royal Bavarian Academy of Sciences at Munich, who begins his duties at once. The career and the qualifications of Professor Hirth were made known to the Trustees in a report submitted by the Committee on Education on May 5 last. Professor Hirth's pre-eminence as a student and investigator of the life, history, and activities of the Chinese, his many contributions to the literature of the subject, and his long residence in China, are assurances that this new and important department will begin its work under the best possible auspices. Professor Hirth's courses for the coming year will include (1) the study of Chinese characters. for beginners; (2) the study of Chinese texts concerning the history and geography of Central Asia and the development of Chinese art, for advanced students; (3) the history of the Chinese Empire, for general students; and (4) a seminar for research. Provision has also been made for an Assistant in the department, who will give instruction in the Mandarin dialect.

During the year a portion of the income of the Dean Lung fund has been devoted to the purchase of books on Chinese and other matter illustrative of the subject-matter of Professor Hirth's lectures. The collection of over 6000 volumes, the gift of the Chinese Government, is described by the Librarian in his report (see p. 254).

On March 3 the Trustees received an important communication from Messrs. R. Fulton Cutting, W. Professor- H. Baldwin, Jr., Isaac N. Seligman, Alfred ship of T. White, George Haven Putnam, Robert Social and W. De Forest, Charles Stewart Smith, Carl Political Ethics Schurz, and the Right Reverend Henry C. Potter, proposing to found a chair of Social and Political Ethics in the University by the gift of a sum sufficient to pay the salary of the professor for a term of three years from July 1, 1902, with the expectation that a permanent endowment fund would be provided later. The Trustees gratefully accepted the offer and on June 2 appointed Felix Adler, Ph.D., of New York, a graduate of Columbia College in the class of 1870, to be Professor of Social and Political Ethics.

Professor Adler will enter upon active service in February, 1903, and will so arrange his work that the heavier portion of his teaching will fall in the second half-year, leaving himself free to carry on during the first half of each academic year his studies and his practical work in connection with those ethical movements in the community that are making for social and political reform. It is the belief of the founders of the chair, and of Professor Adler himself, that because of this personal contact with the ethical movements of our time, the instruction given by the incumbent of the chair will be more vital and practical and less purely academic than would otherwise be the case.

The generous action of the founders of this chair, and the prompt co-operation by the Trustees, are added evidence that the best citizenship of New York holds that any lasting and uplifting movement in civil society and our political life must rest, in last analysis, upon sound ethical and political principles which are recognized as such by the community at large. It is natural and appropriate that the universities, and Columbia University in particular, should be looked to to formulate and enunciate such principles and to hold them steadily before the students and the public.

On February 3 the Finance Committee recommended and the Trustees adopted a resolution designating the professorship of Germanic villard philology, now held by Professor William Professor-H. Carpenter, the Villard Professorship of <sup>ship</sup> Germanic Philology in recognition of the legacy left to the University by the late Henry Villard, himself a friend and patron of learning and constantly active in promoting more intimate relationship between the intellectual life of Germany and that of the United States.

When established, in 1893, the existing Pulitzer

Scholarships were awarded, after competitive examination, to graduates of the public elementary schools The Pulit- of the city of New York, and the successful zer Scholar- competitors received their secondary eduships cation in the Horace Mann School, maintained by Teachers College. Since the establishment of public high schools in the city of New York, Borough of Manhattan, it has seemed wise to Mr. Pulitzer, as it certainly is sound educational policy, to open the scholarships in future to graduates of the public high, or secondary, schools rather than to graduates of the public elementary schools as heretofore. This change of policy necessitated a new agreement between Mr. Pulitzer and the Trustees, to supersede that of May 10, 1893, and on March 3 the Trustees adopted a new agreement with Mr. Pulitzer and authorized its execution by the Clerk. In their present form the Pulitzer Scholarships will be even more useful than before, and in addition they now offer a strong support to public secondary education in the city of New York.

As a memorial to the late George William Curtis, an anonymous friend of Mr. Curtis and of the Uni-

George William Curtis Medals Wedals Ver, to be awarded annually to students in Columbia College for excellence in the public delivery of English orations, due regard being had for subject-matter, literary quality, and manner of delivery. It may be confidently hoped that these medals, bearing as they do so distinguished and honorable a name, will give new interest to the instruction of the undergraduate students in the art of cultivated and effective public speech.

Upon application by the authorities of St. Joseph's Theological Seminary at Yonkers, New York, the Trustees, on February 3, granted to the St. Joseph's students in that institution the same privi- Theological Seminary lege of attending university lectures without payment of any fee for tuition that had previously been granted to students in the Union, General, and Jewish Theological Seminaries in New York and the Drew Theological Seminary at Madison, New Jersey. It is worth noticing that these five institutions represent the Presbyterian, the Protestant Episcopal, the Jewish, the Methodist Episcopal, and the Roman Catholic churches. At a later time I shall point out in some detail how this relationship with various theological seminaries may be developed, and what seems to me to be the proper place of theological study in a modern university under the conditions which prevail in the United States.

At the close of the academic year, Abraham Jacobi, M.D., Professor of the Diseases of Children, and Herman Knapp, M.D., Clinical Professor of Ophthalmology, retired from active of Professervice at their own request and by the sors Jacobi and Knapp resignation of their respective chairs. Both are men of scientific eminence and have been for years past faithful and distinguished members of the teaching force of the College of Physicians and Surgeons. Both carry with them into well-earned retirement the high respect of their colleagues and the regard of the entire University. Upon the nomination of the Medical Faculty, Dr. Jacobi was made Emeritus Professor of the Diseases of Children. His successor in the Professorship of the Diseases of Children is L. Emmett Holt, M.D., LL.D., who brings to the service of the University not only high professional reputation and wide experience, but special knowledge of medical education and deep interest in its improvement.

On March 7 Earl Hall was dedicated with appropriate ceremonies, and after that date the building **opening of was thrown** open for the use of the stu-**Earl Hall** dents and the student organizations in accordance with the plans agreed upon by the donor and the Trustees. Already this building has shown how sorely a home and centre for the social and religious life of the students was needed. It is very largely used, and in its comfort, attractiveness, and beauty stands as a fitting memorial to the wise generosity of the donor as well as to the deep ethical and religious instincts and principles which enter into our conception of education and training.

The Faculty of Medicine has for some years past been confronted by the fact that the standard of Admission admission to the College of Physicians and to the Med-Surgeons was not high enough to exclude ical School students whose academic training was not sufficient to fit them for a rigorous course of professional study. During the early part of the past academic year the Faculty came to the conclusion that some action was desirable without delay, and without prejudice to any general policy as to admission to the professional schools of the University which might subsequently be determined upon. The Faculty thereupon adopted new regulations regarding the admission of students to the first-year class of the College of Physicians and Surgeons, and these regulations, having been submitted to the Trustees as required by the Statutes, became operative on July 1, 1902.

In the past the requirements for admission to the first-year class of the College of Physicians and Surgeons have been those prescribed by law as the minimum to be exacted of intending students of medicine. In the language of the statute, these requirements are 48 academic counts, or their equivalent, as counts are defined by the University of the State of New York. But it is also provided by statute that a medical student may matriculate if he has gained a credit of but 36 of the required 48 counts, on condition that he make up the deficiency of 12 counts within a year. In October, 1901, no fewer than 69 of the 269 members of the first-year class entered subject to such conditions.

The new requirements provide that from and after July 1, 1902, no student so conditioned shall be admitted to the College of Physicians and Surgeons. It is expected that the enforcement of this rule will reduce the size of the entering class in 1902 very greatly in comparison with the class that entered in 1901. A more far-reaching change takes effect on July 1, 1903. After that date admission to the first-year class of the College of Physicians and Surgeons, except in the case of college graduates, will be by examination only, and the examination will be the regular tests conducted by the College Entrance Examination Board in June of each year and by the Columbia University Committee on Entrance Examinations in September. With this rule in force, the standard of admission to the College of Physicians and Surgeons will be the same as that for admission to the undergraduate schools of the University. That is, it will involve a four-years' course of secondary study. The specific subjects upon which the Faculty of Medicine proposes to lay emphasis, by prescribing them for admission, are English, mathematics, elementary Latin, history, and one modern language. The candidate may make good the remainder of the requirement for admission by a selection from any of the subjects ordinarily taught in secondary schools, and accepted in whole or in part for admission by the undergraduate schools of the University. The Faculty recognize perfectly that a still higher standard for admission to the Medical School should be exacted as soon as the financial condition of the University will permit. The first effect of the enforcement of the new standard will probably be to reduce the size of the incoming class from twenty to twentyfive per cent.

For some time past my attention has been attracted by the fact that the great educational Fellowships advantages of the reorganized French for Study universities were not fully appreciated in in France the United States. While for more than a generation many of the best class of American students have passed one or more years in residence at a German university, and while the relationship between the English universities and those of the United States has always been more or less close, there has been no similar bond of adequate strength

between the universities of France and our own. This has seemed to me unfortunate because of the many and strong reasons which exist for closer and more intimate knowledge of each other on the part of the peoples of France and of America. I have, therefore, undertaken to secure funds for the establishment at Columbia University of two fellowships, to be awarded annually, the holders to carry on their studies at one of the French universities. In order that the expense of residence abroad, including all academic fees, might be fully met, I have suggested that the value of each of these fellowships should be \$800 at least. I am glad to be able to report that funds for the establishment of one fellowship for one year have already been given and that there is every prospect that it will be possible to offer both fellowships in the year 1903, either upon the basis of a permanent endowment or upon the basis of the necessary funds for the year being given.

In exchange for the establishment of these fellowships, I have ventured to propose to the Minister of Public Instruction in France that the French Government should found two similar fellowships, the holders of which should carry on their studies at Columbia University. My communication upon this subject was presented to the Minister of Public Instruction in June last, and, through the kind offices of Professor Adolphe Cohn of the Department of Romance Languages and Literatures, and those of Mr. James H. Hyde of New York, President of the Alliance Française, the project was placed before the Minister in the best possible light. The suggestion was most favorably received, and one such

fellowship has been established by the French Government for the year 1902-03, and the holder has already been appointed. He is M. A. François Monod, who comes to Columbia to carry on his studies under the direction of the Faculty of Political Science. It is my hope and expectation that with the establishment of these fellowships new and closer relations will be built up between Columbia and the French universities. It is planned to award these fellowships as the existing university fellowships are awarded, but to place no restriction upon the subject or subjects which the holders may study while abroad. In this way the fellowships will be available for students of law, medicine, engineering, or education, as well as for students of the liberal arts and sciences.

The Trustees of Barnard College completed during the year the revision of the Statutes of the College, **Barnard** and of the By-Laws and Rules of Order of **College** the Trustees, upon which a committee had been engaged for some time. This revision affects the general administration of the University in an important way, in that it brings the procedure of the Barnard College corporation into close conformity with that of the University, and so simplifies and makes easier the administration of all matters in which the two corporations have a common interest.

The endeavor to secure a suitable endowment fund met with unexpected success during the year owing to the generous proposal of Mr. John D. Rockefeller to duplicate all gifts received for the endowment fund before April 1, up to a limit of \$250,000. The treasurer, Mr. George A. Plimpton, who has served the College so ably and unselfishly in the past, set himself the task of raising the \$250,000, and succeeded in his effort. The income from this new fund will greatly diminish the amount now needed each year to meet the deficit in the running expenses of Barnard College, and will serve as the beginning of an endowment fund which will one day, I do not doubt, be adequate to the large needs and high purposes of the College.

The Trustees have been compelled to abandon the use of Fiske Hall as a dormitory in order to render more space available for laboratories and class-rooms. The loss of the dormitory will be severely felt, but the Trustees hope to receive funds for the erection of one or more dormitory buildings in the near future.

The year at Teachers College has been exceptionally successful. The enormous increase, during the past five years, of the number of college Teachers graduates who are pursuing a regular College course of study in the history, principles, and practice of education is one of the most striking evidences of the appreciation in which the work of Teachers College is held throughout the country. It is also a measure of the advantage to Teachers College of its incorporation in the University. It is plainly evident that, except in most unusual circumstances and under peculiar conditions, the professional schools which will hereafter attract the largest number of the best prepared students, and which will therefore accomplish the most in the shortest time, are those which are members of the great universities of the country. They share in the many and

peculiar advantages which a university offers to its students, and have a part in that delightful, if indefinable, university atmosphere which has exerted so uplifting an influence, intellectual and moral, for many generations.

The Dean of Teachers College explains in his report the significant revision of the several courses of study which has now been completed. This revision is based upon a careful study of the College's own experience, and will enable it to deal more efficiently than ever before with the different classes of students who come to Teachers College for their professional instruction and training. Dean Russell's observations concerning the so-called collegiate course at Teachers College bear directly upon the question as to the length of the college course and the relation of collegiate to professional and technical study which I have already discussed in some detail.

The establishment, through co-operation with Union Theological Seminary, of definite courses of instruction in the English Bible is of more than passing interest. It marks an attempt to meet the demand, now being heard in various parts of the country, and made with increasing emphasis, for a systematic study, by the best educational methods, of the English Bible as a work of literature and as a text-book of religion and morals. That these courses of instruction will appeal to a large number of students in the University cannot be doubted.

The Speyer School building is approaching completion, and the unfailing generosity of the donors has made it possible to make many important additions to the original plans. That Teachers College has, since its incorporation in 1889, received in gifts and bequests the sum of \$2,712,823.11 is one of the most striking and significant facts in recent educational history. It bears most impressive witness to the power of an ideal in this great centre of industry, commerce, and finance. The additional fact that nearly the whole of this large sum has been given to the College by the men and women who have guarded its interests as Trustees, and have given generously of time, thought, and labor, or by members of their families, speaks more eloquently than any comment could possibly do.

An unusual number of university officers have died during the year. Richmond Mayo-Smith, Professor of Political Economy and Social Deaths Science and a member of the University of Univer-Council, died on November 11; William G. sity Officers Baker, a retired member of the Library staff, on January 29; John T. Metcalfe, Emeritus Professor of Clinical Medicine, on January 30; Isaac D. Parsons, Assistant in Electrical Engineering, on February 12; George William Warren, Organist and Lecturer on Music, on March 15; and George C. Hubbard, Assistant in Analytical Chemistry, on May 27. Mr. Parsons and Mr. Hubbard were young men at the very outset of their academic careers and were full of promise. Mr. Baker entered the service of the Library in 1878 and until his withdrawal from active duty in 1800 was a faithful and painstaking officer. Dr. Metcalfe's eminent service to the profession of medicine, to the community, and to the College of Physicians and Surgeons will long be gratefully

remembered. Mr. Warren had for many years contributed greatly to the success of the daily chapel services and had taken responsible charge of the music at all public University functions. Professor Mayo-Smith, distinguished alike as economist, statistician, teacher, and organizer, had placed his remarkable talents at the service of the University for a quarter of a century, and had taken an active part in shaping and in administering its policies. His death while at the very height of his powers was a severe loss to the University and a crushing blow to his colleagues and friends.

The whole form of modern university development has been conditioned by the growth of great The Uni- cities. The life of the modern universities versity and is becoming more and more of the urban the City type. Each of the world's great capitals which is or aims to be a centre of influence in the largest sense of the word must and will be the home of a great university. That university will be national, or even international, in sympathy, scope, and influence. But it will be dependent in a large measure—when not, as in Europe, a governmental institution—upon the support of the city in which it is.

And it will of necessity reflect and extend the spirit and temper of that city. The drift of population into the great city centres is paralleled by the rapid growth of the number of students attending the city universities. While there is a difference of opinion as to the desirability of a city as a place of purely collegiate or undergraduate instruction, there is no doubt whatever as to the superiority of the city's opportunities and environment as a place of graduate, professional, and technical study. The history of Columbia College, which is the oldest part of Columbia University, and in a sense the mother of all the rest, shows clearly that during the past ten years at any rate an increasing number of parents in every part of the country are choosing New York and Columbia as a place to which to send their sons, even for the undergraduate period of study.

The reason for the vast and rapid development of the urban university is, as Cardinal Newman said two generations ago, that a city is by its very nature a university. It draws to itself men and women of all types and kinds; it is the home of great collections of art and science, and it affords abundant opportunities to come under the influence of the best music and the best literature of our time.

The great city, and especially New York, is intensely cosmopolitan, and contact with its life for a short time during the impressionableness of youth is in itself a liberal education. Columbia is the typical urban university, and it is national to the core in its interests and sympathies. It typifies the earnestness, the strenuousness, the practicality, and the catholicity of New York City, and its constituency is drawn from every part of the nation. The tendency of American educational institutions once local to become truly national is a striking characteristic of the changes of the past quarter of a century. Perhaps no other American university has profited more than Columbia by the change, or has done more to bring it about.

The great city universities in Europe and in America owe their leadership to the fact that they are intent upon research and the training of productive scholars on the one hand, and upon the development and support of the highest possible professional training on the other. Each of these institutions is proud of the fact that its faculties include a number of the unquestioned leaders in the world's science and the world's literature. It is the presence of men like these that constitutes a real university; and it is upon their influence and example that the university depends for its present and future usefulness.

In common with all urban universities, Columbia University has before it the task of promoting productive scholarship and teaching efficiency. But its special and peculiar task is to serve New York and to represent sturdily all that is best and most uplifting in the traditions and ambitions of the American metropolis. This latter task is, in fact, that of practical usefulness to the community and of effective leadership in all that concerns good citizenship and the highest personal and civic ideals. Columbia aims to keep always in close touch with the community of which it is so important a part. Its needs are enormous, but the capacity of New York to meet them is even greater; and we rely with confidence upon the generous support of the great city.

> NICHOLAS MURRAY BUTLER, President.

October 6, 1902.

# APPENDIX 1

# STATISTICS REGARDING THE TEACHING AND AD-MINISTRATIVE STAFF FOR THE ACADEMIC YEAR 1901-1902

## SUMMARY OF OFFICERS

|                                   | 1900-1901 | 1001-1002 |
|-----------------------------------|-----------|-----------|
| Professors                        | 78        | 79        |
| Adjunct and Associate Professors  | 15        | 27        |
| Clinical Professors and Lecturers | 17        | 19        |
| Instructors                       | 69        | 62        |
| Demonstrators                     | 3         | 3         |
| Assistant Demonstrators           | 12        | II        |
| Tutors                            | 35        | 46        |
| Assistants                        | 48        | 48        |
| Curators                          | 3         | 3         |
| Lecturers                         | 25        | 26        |
| Clinical Assistants               | 74        | 83        |
|                                   |           |           |
| Officers of Instruction           | 379       | 407       |
| Officers of Administration        | 18        | 16        |
| Emeritus Officers                 | 10        | 9         |
|                                   |           |           |
| Total                             | 407       | 432       |

#### VACANCIES

Occurring, unless otherwise indicated, on June 30, 1902.

Professors and Administrative Officers

| WILLIAM H. H. BEEBE. Jan. 1Resigned                   |
|---|
| Secretary.<br>MARSTON T. BOGERT, A.B., Ph.B           |
| Director of Student Organizations.                    |
| NICHOLAS MURRAY BUTLER, Ph.D., LL.D. Jan. 10Resigned  |
| Dean of the Faculty of Philosophy.                    |
| GEORGE B. GERMANN, Ph.D. May 15Resigned<br>Registrar. |
| FRANK J. GOODNOW, A.M., LL.D. Nov. 15                 |
| Secretary of the Faculty of Political Science.        |
| ABRAHAM JACOBI, M.D., LL.D                            |
| Professor of the Diseases of Children.                |

| WILLIAM A. KEENER, LL.D. Aug. 8           | Resigned     |
|---|--------------|
| Dean of the School of Law.                |              |
| Herman Knapp, M.D                         | Resigned     |
| Professor of Ophthalmology.               |              |
| SETH LOW, LL.D. Oct. 7                    | Resigned     |
| President.                                |              |
| RICHMOND MAYO-SMITH, Ph.D. Nov. 11        | . Died       |
| Professor of Political Economy and Social |              |
| Science.                                  |              |
| JOHN T. METCALFE, M.D. Jan. 30            | .Died        |
| Emeritus Professor of Clinical Medicine.  |              |
| George William Warren, Mus. Doc. Mar. 15  | . Died       |
| Organist and Lecturer on Music.           |              |
| RICHARD HENRY WARREN                      | Term Expired |
| Organist.                                 | _            |
|   |              |

# Instructors and Demonstrators

| WRAY ANNIN BENTLEY, B.S.  | .Resigned |
|---|-----------|
| Instructor in Metallurgy.   | U U       |
| ROBERT ALLYN BUDINGTON, A.M.  | Resigned  |
| Assistant Demonstrator of Physiology.   | U         |
| WILLIAM H. CASWELL, M.D. Nov. 1   | Resigned  |
| Instructor in Neurology.  | Ū         |
| ARTHUR MORGAN DAY, A.M. Mar. 15   | Resigned  |
| ARTHUR MORGAN DAY, A.M. Mar. 15<br>Instructor in Political Economy and Social |           |
| Science.  |           |
| FRANKLIN A. DORMAN, M.D.  | .Resigned |
| Instructor in Obstetrics.   | U         |
| REGINALD GORDON, A.B. Jan. 1  | .Resigned |
| Instructor in Physics.  | 0         |
| NATHAN WILLIAMS GREEN, M.D  | Resigned  |
|   |           |
| Assistant Demonstrator of Physiology.   |           |
| Assistant Demonstrator of Physiology.<br>HENRY A. GRIFFIN, M.D. Dec. 16       | Resigned  |

## Tutors

| LEWIS NATHANIEL CHASE, A.M.   | .Term Expired |
|---|---------------|
| Tutor in Comparative Literature.  | -             |
| CLAYTON MEEKER HAMILTON, A.M  | .Term Expired |
| Tutor in English.   | -             |
| AUGUSTIN L. J. QUENEAU, A.M. Apr. 15  | Resigned      |
| Tutor in Metallurgy.  | J             |
| Augustin L. J. Queneau, A.M. Apr. 15<br>Tutor in Metallurgy.<br>Milton C. Whitaker, M.S | Resigned      |
| Tutor in Chemistry.   | 0             |

## Lecturers

| ELGIN R. L. GOULD, Ph.D. Feb. 1   | .Resigned    |
|---|--------------|
| Lecturer in Political Economy.  |              |
| John Angus MacVannel, Ph.D  | Term Expired |
| Lecturer in Philosophy.   | Town Dania 1 |
| HENRY RAYMOND MUSSEY, A.B<br>Lecturer in the School of Political Science. | Term Expired |
| WILLIAM ZEBINA RIPLEY, Ph.D. Dec. 12                                      | Resigned     |
| Prize Lecturer in Sociology.  | Resigned     |

| JAMES DENNISON ROGERS, I | Ph.DTerm | Expired |
|--------------------------|----------|---------|
| Lecturer in Greek.       |          |         |
|                          |          | ıed     |
| Lecturer in History.     |          |         |
|                          | Term     | Expired |
| Lecturer in Electrical E |          |         |
| MAX WEST, Ph.D           |          | Expired |
| Lecturer in Political Ec | onomy.   | -       |

## Assistants

| GRACE ANDREWS, Ph.D.  | Ferm Expired                           |
|---|--|
| Assistant in Mathematics.   |  |
| CHARLES W. CRAMPTON, M.D.   | Ferm Expired                           |
| Assistant in Normal Histology.  |  |
| WILSON E. DAVIS, A.B.   | Ferm Expired                           |
|   |  |
| WOLFRAM E. DREVFUS, Ph.D  | erm Expired                            |
| Assistant in Analytical Chemistry.<br>JEANNETTE BLISS GILLESPY, A.B   | Designed                               |
|   |  |
| Assistant in Rhetoric.<br>ERNEST VALENTINE HUBBARD, M.D               | Corm Expired                           |
| Assistant in Pathology.   | term Daphed                            |
| George Canning Hubbard, B.S. May 27                                   | Died                                   |
| Assistant in Analytical Chemistry.                                    |  |
| Assistant in Analytical Chemistry.<br>HOLMES C. JACKSON, Ph.D. Oct. 7 | Resigned                               |
| Assistant in Physiological Chemistry.                                 |  |
| WILLIAM B. JOHNSTONE, C.E.  | Resigned                               |
| Assistant in Physics.<br>JAMES A. MILLER, M.D.                        | 0                                      |
| JAMES A. MILLER, M.D  | Cerm Expired                           |
| Assistant in Normal Histology.  |  |
| WILLIAM WHITFIELD MILLER, M.D.  | Cerm Expired                           |
| Assistant in Normal Histology.<br>EDWARD BEDINGER MITCHELL, A.B.      |  |
| EDWARD BEDINGER MITCHELL, A.B.  | Ferm Expired                           |
| Assistant in Comparative Literature.                                  |  |
| MILES REES MOFFAT, A.B., B.S. Jan. I                                  | Resigned                               |
| Assistant in Physics.<br>Arthur Colon Neish, A.M                      | Denne 12 and and                       |
| Aggistent in Applytical Chemistry                                     | erm Expired                            |
| Assistant in Analytical Chemistry.<br>WILLIAM FREDERICK NEUMANN, M.D  | Comm Empired                           |
| Assistant in Bacteriology and Hygiene.                                | term Explied                           |
| ISAAC D. PARSONS, E.E. Feb. 12  | Died                                   |
| Assistant in Electrical Engineering                                   |  |
| FRANK E. PENDLETON, Mech.E.   | Cerm Expired                           |
| FRANK E. PENDLETON, Mech.E  | i vi i i i i i i i i i i i i i i i i i |
| ALFRED TINGLE, Ph.D.  | Cerm Expired                           |
| Assistant in Analytical Chemistry.                                    |  |
| HARLAN UPDEGRAFF, A.M.  | Cerm Expired                           |
| Assistant in Philosophy and Education,                                |  |
| ADA WATTERSON, A.M.   | Resigned                               |
| Assistant in Botany.  |  |
|   |  |

## Curators

ALEXANDER P. ANDERSON, Ph.D......Term Expired Curator of the Herbarium.

|  | SUBJECT | English<br>Physiological Chemistry<br>Palæontology<br>Physics<br>Diseases of Children<br>Practice of Medicine<br>Classical Philology<br>English   | Romance Languages and<br>Literatures           |
|--|---------|---|--|
| rative Officers                        | TO      | Adjunct Professor of<br>Adjunct Professor of<br>Adjunct Professor of<br>Professor of<br>Professor of<br>Professor of<br>Adjunct Professor of<br>Adjunct Professor of<br>Professor of Italian<br>Professor of Law  | Professor of                                   |
| Professors and Administrative Officers | FROM    | WILLIAM T. BREWSTER, A.M. Instructor in<br>WILLIAM J. GIES, M.S., Ph.D. Instructor in<br>WILLIAM HALLOCK, Ph.D. Lecturer in<br>AMADEUS W. GRABAU, S.D. Lecturer in<br>MILLIAM HALLOCK, Ph.D. Clinical Professor of<br>U. EMMETT HOLT, M.D. Clinical Professor of<br>KALTER B. JAMES, M.D. Clinical Professor of<br>B. ALTER B. JAMES, M.D. Lecturer on the<br>FREDERICE P. NDELL, Ph.D. Lecturer on the<br>CHARLES KNAPP, Ph.D. M. Clinical Professor of<br>B. és L. CARLO LEONARDO SPERANZA, A.M.<br>B. és L. CHARLES T. TERRY, A.B., LL.B. Lecturer on Con-<br>tracts   | BENJAMIN D. WOODWARD, Ph.DAdjunct Professor of |
|  | NAME    | WILLIAM T. BREWSTBR, A.M. Instructor in<br>WILLIAM J. GIES, M.S., Ph.D. Instructor in<br>WILLIAM J. GIES, M.S., Ph.D. Instructor in<br>AMADEUS W. GRABAU, S.D. Iccturer in<br>WILLIAM HALJOCK, Ph.D. Iccturer on<br>WILLIAM HALJOCK, Ph.D. Iccturer on to<br>REDERICK P. KEPPEL, A.B. (Jan. 1). Assistant Sec<br>CHARLES KNAPP, Ph.D. Instructor in<br>GEORGE C. D. ODELL, Ph.D. Instructor in<br>CARLO LEONARDO SPERANZA, A.M., Adjunct Prof<br>B. és L. Instructor in<br>CARLES T. TERRY, A.B., LL.B. Iccturer on<br>the Roman<br>guages and<br>tures<br>CHARLES T. TERRY, A.B., LL.B. Iccturer on<br>the roman | Benjamin D. Woodward, Ph                       |

PROMOTIONS

To take effect July 1, 1902

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|                               | Normal and Pathological<br>Histology of the Ner- | vous System<br>Pathology<br>Pathology<br>Physics<br>History<br>Analytical Chemistry<br>Metallurgy<br>German<br>Obstetrics  |        | Organic Chemistry<br>Romance Languages and                                     | Literatures  | Philosophy<br>Zoölogy<br>English<br>Physics<br>Physical Chemistry |
|-------------------------------|--|--|--------|--|--|---|
| onstrators                    | Instructor in                                    | Instructor in<br>Instructor in<br>Instructor in<br>Instructor in<br>Instructor in<br>Instructor in<br>Instructor in<br>Instructor in   |        | Tutor in<br>Tutor in   | Tutor in Analytical<br>Chemistry and<br>Assaying<br>Tutor in Drawing | Tutor in<br>Tutor in<br>Tutor in<br>Tutor in<br>Tutor in          |
| Instructors and Demonstrators | FREDERICK R. BAILEY, M.DTutor in                 | JOHN HENRY LARKIN, M.DTutor in<br>AUGUST JEROME LARRIGAU, M.DTUTOT in<br>HERSCHEL C. PARKER, Ph.B. (Jan. 1)Tutor in<br>WILLIAM R. SHEPHERD, Ph.DTutor in<br>HENRY C. SHEPHERD, Ph.D. (JUJY 1, 1901). TUTOT in<br>BRADLEY STOUGHTON, B.STUTOT in<br>RUDDLF TOMBO, Jr., Ph.D. (JUNE 1, 1902). TUTOT in<br>JAMES D. VOORHEES, M.DTUTOT in | Tutors | VICTOR J. CHAMBERS, Ph.DAssistant in JOHN D. FITZ-GERALD, II., A.BAssistant in | EVERETT J. HALL  | ADAM LEROY JONES, Ph.D  |

# PRESIDENT'S ANNUAL REPORT

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### CHANGES OF TITLE

### To take effect July 1, 1902

### Professors

NAME

FROM

WILLIAM H. CARPENTER, Ph.D. Professor of Germanic Philology ROBERT W. TAYLOR, M.D.....Clinical Professor

of Venereal Diseases

#### Instructors

| WILLIAM K. DRAPER, M.DInst | ructor in Phys-<br>ical Diagnosis  | Instructor in Med-<br>ical Diagnosis |
|----------------------------|------------------------------------|--------------------------------------|
| E. MILTON FOOTE, M.DIns    | tructor in Sur-                    | Instructor in Mi-                    |
| JAMES R. HAYDEN, M.DIns    | gery<br>tructor in Ven-            | nor Surgery<br>Instructor in Gen-    |
|                            | ereal and Gen-<br>ito-Urinary Dis- | ito-Urinary<br>Diseases              |
|                            | eases                              |                                      |
| WALTON MARTIN, M.DIns      | tructor in Sur-<br>gery            | Instructor in Mi-<br>nor Surgery     |
| RALPH E. MAYER, C. EInst   |                                    | Instructor in<br>Drawing             |

#### Lecturers

HARLAN FISKE STONE, M.A., LL.B..... Lecturer on Crim- Lecturer on Law. inal Law, Bailments, and Insurance

#### APPOINTMENTS

To take effect July 1, 1902

Professors and Administrative Officers

NAME

FELIX ADLER, Ph.D..... Professor of Social and Political Ethics FRANCIS M.BURDICK, LL.D. (Oct. 3). Secretary of the Faculty of Law

то

Villard Professor of Germanic Philology **Clinical** Professor of Genito-Urinary Diseases

OFFICE

### NAME

#### OFFICE

| NICHOLAS MURRAY BUTLER, Ph.D.,                                      |
|---|
| LL.D  |
| (Jan. 6) President of the University                                |
| FREDERICK A. GOETZE Director of Student Organizations               |
| FRIEDRICH HIRTH, Ph.D Dean Lung Professor of Chinese                |
| ABRAHAM JACOBI, M.D., LL.D Emeritus Professor of the Dis-           |
| eases of Children   |
| GEORGE W.KIRCHWEY, A.B. (Oct. 3) Dean of the Faculty of Law         |
| PAUL MONROE, Ph.D Delegate to University Council                    |
| HENRY L. MOORE, Ph.D Adjunct Professor of Political                 |
| Économy   |
| EDWARD DELAVAN PERRY, Ph.D.   |
| (Jan. 10) Dean of the School of Philosophy                          |
| JOHN DYNELEY PRINCE, Ph.D Professor of Semitic Languages            |
| JULIUS SACHS, Ph.D Professor of Secondary Education                 |
| in Teachers College   |
| HENRY ROGERS SEAGER, Ph.D Adjunct Professor of Political            |
| Économy   |
| DAVID EUGENE SMITH, Ph.D.   |
| (July 1, 1901) Professor of Mathematics in                          |
| Teachers College  |
| MUNROE SMITH, A.M., J.U.D. (Oct. 18) Delegate to University Council |
| (Nov. 15) Secretary of the Faculty of                               |
| Political Science   |
| RICHARD HENRY WARREN. (Apr. 17). Organist                           |
| THOMAS DENISON WOOD, M.D.   |
| (July 1, 1901) Professor of Physical Education                      |
| in Teachers College   |
| FREDERICK J. E. WOODBRIDGE, A.M. Professor of Philosophy            |
|   |
|   |

# Instructors and Demonstrators

| PEARCE BAILEY, M.D. (Nov. 1)                     | Instructor in Neurology                     |
|--|---|
| HENRY WOOLFE BERG, M.D                           | Instructor in Infectious Diseases           |
| Richard H. Cunningham, M.D<br>Haven Emerson, M.D | Instructor in Electro-Physiology            |
| HAVEN EMERSON, M.D                               | Assistant Demonstrator of Physi-<br>ology   |
| LINNAEUS EDFORD LA FETRA, M.D.                   | Instructor in the Diseases of Chil-<br>dren |
| RALPH W. LOBENSTINE, M.D                         | Instructor in Obstetrics                    |
| RUSSELL BURTON OPITZ, M.D                        | Assistant Demonstrator of Physiology        |
| EUGENE H. POOL, M.D. (Nov. 1).                   | Assistant Demonstrator of Anat-<br>omy      |
| ARTHUR M. SHRADY, M.D (Jan. 1)                   | Instructor in Physical Diagnosis            |

# Tutors

| CARL A. ERNST, Ph.D   | Tutor in General Chemistry               |
|---|--|
| Hercules Wallace Geromanos,<br>S.B                            | Tutor in Metallurgy                      |
| ALFRED HAYES, A.B., LL.B                                      | Tutor in Law                             |
| ALVIN S. JOHNSON, A.M   | Tutor in Economics and Social<br>Science |
| Amount France Deepper A.M.                                    |  |
| AUSTIN FLINT ROGERS, A.M<br>BRADLEY STOUGHTON, B.S. (Apr. 15) | Tutor in Metallurgy                      |

## Lecturers

| George W. Botsford, Ph.D          | Lecturer in Ancient History      |
|-----------------------------------|----------------------------------|
| WALTER L. FLEMING, M.S., A.M      | Lecturer in History              |
| JAMES W. GARNER, B.S., Ph.M       | Lecturer in History              |
| ELGIN R. L. GOULD, Ph.D. (Oct. 7) | Lecturer in Political Economy.   |
| HEINRICH O. HOFMAN, Ph.D.         | Lecturer in Metallurgy           |
| JAMES F. MCCLELLAND, E.M          | Lecturer in Mining               |
| HENRY R. MUSSEY, A.B. (Mar. 15)   |                                  |
|                                   | Science                          |
| ELSIE CLEWS PARSONS, Ph.D         | Lecturer in Sociology            |
| W. ROY SMITH, A.M. (July 1, 1901) | Lecturer in History              |
| CHARLES P. STEINMETZ. (Feb. 1)    | Lecturer in Electrical Engineer- |
| . ,                               | ing                              |
| MAX WEST, Ph.D. (Feb. 1)          | Lecturer in Political Economy    |
|                                   |                                  |

# Assistants

| Joseph H. Bair, Ph.B., A.M<br>Frances C. Berkeley, A.B | Assistant in Anthropology .<br>Assistant in English |
|--|---|
| JEAN ALICE BROADHURST                                  | Assistant in Botany                                 |
| RALPH E. BUFFINGTON, M.D                               | Assistant in Normal Histology                       |
| JOHN CABOT, Jr., M.E. (Jan. 1)                         | Assistant in Physics                                |
| WILLIAM C. CLARKE, M.D. (NOV. I)                       | Assistant in Normal Histology                       |
| George H. DANTON, A.B                                  | Assistant in Comparative Litera-                    |
|  | ture  |
| JOSEPH L. DANZIGER, B.S                                | Assistant in Analytical Chemistry                   |
| WILSON E. DAVIS, A.B. (July 1, 1901)                   | Assistant in Mining                                 |
| Norman E. Ditman, M.D                                  | Assistant in Clinical Pathology                     |
| CHARLES H. ELLARD, A.M                                 | Assistant in Analytical Chemistry                   |
| CYRUS WEST FIELD, M.D                                  | Assistant in Pathology                              |
| CHARLES FORBES, M.D                                    | Assistant in Physics                                |
| CLAUDE R. FOUNTAIN, A.B                                | Assistant in Physics                                |
| PHILIP B. HAWK, M.S. (July 1, 1901)                    | Assistant in Physiological Chem-                    |
|  | istry   |
| TRACY ELLIOT HAZEN, Ph.D                               | Assistant in Botany                                 |
| LINVILLE L. HENDREN, A.M. (Jan. 1)                     | Assistant in Physics                                |
| FREDERICK W. J. HEUSER, A.B.                           | Assistant in the Germanic Lan-                      |
|  | guages and Literatures                              |
| HENRY A. JACKSON, B.S                                  | Assistant in Physical Chemistry                     |
| CHARLES E. LUCKE, M.S                                  | Assistant in Mechanical Engineer-                   |
| · · · · · · · · · · · · · · · · · · ·                  | ing   |
| WILLIAM W. MILLER, M.D. (Nov. 1)                       | Assistant in Normal Histology                       |
| MILES R. MOFFAT, A.B., B.S. (Oct. 1)                   | Assistant in Physics                                |
| Charles Norris, M.D                                    | Assistant in Bacteriology                           |
| ISAAC D. PARSONS, E.E. (July I,                        | rissistant in Dactoriology                          |
| 1901)  | Assistant in Electrical Engineer-                   |
| 1901)  |   |
| A Exert Sourcemen M.D.                                 | ing<br>Aggistant in Operative Surgery               |
| A. EMIL SCHMITT, M.D.                                  | Assistant in Operative Surgery                      |
| WILLIAM C. UHLIG, Ph.B. (July 1,                       | Annial die Olanariatana                             |
| 1901)<br>Edwin C. Upton, B.S                           | Assistant in Chemistry                              |
| EDWIN C. UPTON, B.S.                                   | Assistant in English                                |
| Rossiter L. Waters, Mech. E                            | Assistant in Mechanical Engi-                       |
|  | neering   |
| FRANCIS J. WHITE, E.E                                  | Assistant in Electrical Engineer-                   |
|  | ing   |
| LINSLEY R. WILLIAMS, M.D                               | Assistant in Normal Histology                       |
| ,  |   |

# APPENDIX 2

## PUBLIC LECTURES

### UNDER THE AUSPICES OF THE UNIVERSITY

### AT THE UNIVERSITY

February 26. Victor Hugo Celebration. Addresses by Dr. Henry van Dyke, Mr. Hamilton W. Mabie, Prof. L. Mabilleau, and selections read by Prof. A. Cohn.

| L'Enseignement Public en France. | Prof. Léopold Mabilleau, |
|----------------------------------|--------------------------|
| Directeur du Musée Social        |                          |

| February | 27. | Le haut Enseignement théorique: La Sorbonne et le  |
|----------|-----|--|
|          |     | Collège de France.                                 |
| 6.6      | 28. | Le haut Enseignement pratique: L'École Centrale et |
|          |     | le Conservatoire des Arts et Métiers.              |
| March    | I.  | L'Enseignement sociologique: Le Musée Social et    |
|          |     | l'École des Sciences Politiques.                   |
| 6.6      | 3.  | L'Enseignement populaire.                          |
| March    | 5.  | Les Résultats de la Conférence de la Haye. Baron   |
|          |     | d'Estournelles de Constant, Ministre Plénipoten-   |
|          |     | tiaire, Membre de la Chambre des Députés. Hon.     |
|          |     | Seth Low, LL.D., presided at the lecture.          |

China and Chinese Civilization. Herbert Allen Giles, LL.D., Professor of Chinese at the University of Cambridge

March

 I. The Chinese Language: Its importance—Its difficulty—The Colloquial—Dialects—"Mandarin"— Absence of grammar—Illustrations—Pidgin-English —Scarcity of vocables—The Tones—Coupled Words —The written language—The Indicators—Picture characters—Pictures of ideas—The Phonetics— Some faulty analyses.

II. A Chinese Library: The Cambridge (Eng.) Library—(A) The Confucian Canon—(B) Dynastic history—The "Historical Record"—The "Mirror of History"—Biography—Encyclopædias—How Arranged—Collections of Reprints—The Imperial Statutes—The Penal Code—(C) Geography—Topography—An old volume—Account of Strange Nations—(D) Poetry—Novels—Romance of the Three Kingdoms—Plays—(E) Dictionaries—The Concordance—Its arrangement—Imperial Catalogue—Senior Classics.

- 10. III. Democratic China: The Emperor—Provincial Government—Circuits—Prefectures—Magistracies —Head-boroughs—The People—The Magistrate— Other Provincial Officials—The Prefect—The Intendant of Circuit (*Tao-t'ai*)—Viceroy and Governor— Taxation—Mencius on "the people"—Personal liberty—New imposts—Combination—Illustrations.
- 12. IV. China and Ancient Greece: Relative values of Chinese and Greek in mental and moral training— Lord Granville—Wên T'ien-hsiang—Han Yū—An Emperor—A land of opposites—Coincidences between Chinese and Greek civilizations—The question of Greek influence—Greek words in Chinese—Coincidences in Chinese and western literature—Students of Chinese wanted.
- 14. V. Taoism: Religions in China—What is Tao?—Lao Tzü—The Tao Tê Ching—Its claims—The philosophy of Lao Tzü—Developed by Chuang Tzü—His view of Tao—A Taoist poet—Symptoms of decay— The Elixir of Life—Alchemy—The Black Art— Struggle between Buddhism and Taoism—They borrow from one another—The corruption of Tao— Its last state.
- 17. VI. Some Chinese Manners and Customs: Origin of the queue—Social Life—An eyeglass—Street etiquette—Guest and host—The position of women— Infanticide—Training and education of women— The wife's status—Ancestral Worship—Widows— Foot-binding—Henpecked husbands—The Chinaman a mystery—Customs vary with places—Dog's flesh—Substitutes at executions.

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March

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The Dynamics of Living Matter. Jacques Loeb, M.D., Professor of Physiology and Experimental Biology in the University of Chicago

| March      | 18. I. The G   | eneral Chemical Character of Life Phe-    |  |  |  |
|------------|----------------|---|--|--|--|
|            | nomena.        |   |  |  |  |
| **         | 19. II. The    | General Physical Constitution of Living   |  |  |  |
|            | Matter.        |   |  |  |  |
| 6.6        | 20. III. Proto | oplasmic Motion, Muscular Contraction,    |  |  |  |
|            | and Cell       | 1 Division.                               |  |  |  |
| 4.4        | 21. IV. The H  | Effects of the Galvanic Current upon Life |  |  |  |
| Phenomena. |                |   |  |  |  |
| 6.6        | 24. V. The E   | Effects of Ions upon Various Life Phe-    |  |  |  |
|            | nomena.        |   |  |  |  |
| 4.4        | 25. VI. The E  | Effects of Light and Heliotropism.        |  |  |  |
| 4.4        | 26. VII. Artif | ficial Parthenogenesis and the Problem of |  |  |  |
|            | Fertilizat     | tion.                                     |  |  |  |
| 6.6        | 27. VIII. Reg  | generation and the Reversibility of the   |  |  |  |
|            | Process        | of Development.                           |  |  |  |

- Chanson de Roland. Prof. Henry A. Todd, of Columbia University
- April 9. The French Folk-Epic: Its origin and development. Formative influences of the Chansons de geste. Classification of the Epic Cycles and characterization of the Chansons de geste.
  - 16. The Chanson de Roland: Its historical basis. The transformation of history into legend. Account of the poem as contained in the earliest preserved redaction. Why the *Roland* is accounted the greatest of the *Chansons de geste*.
  - 23. The Chanson de Roland: History and description (with complete photographic *fac-simile*) of the unique Oxford Manuscript (Digby 23). The language and versification of the *Roland*: The *laisse*, the verse, the assonance, the caesura. The style and literary form of the poem.
  - 30. The Roland Legend: Its later development in France and its diffusion in the literature of Europe: The Ruolandes-Lied; the Karlamagnus Saga; the Roland in English verse; the Spanish Roncevaux; the Italian Rotta di Roncesvalle, the Morgante Maggiore, the Orlando innamorato and the Orlando jurioso. Conclusion.

May 19. Address to Officers and Students of the University. Prof. Alfred Croiset, of the University of Paris.

### AT COOPER UNION

Lectures on Civil Engineering Subjects. William Hubert Burr, Professor, Columbia University

- February 4. Ancient Civil Engineering Works: The prehistoric works of the Egyptians, Assyrians, and other ancient nations. The canals and other artificial waterways in the Euphrates valley. The masonry and other constructions of the Chaldeans. The construction of the Pyramids of the ancient Egyptians; their masonry and hydraulic works in the valley of the Nile. The timber and masonry bridges of the Romans; their aqueducts, waterworks, and harbors.
  - 11. Bridges: The early timber and iron bridges of this country. The beginnings of the period of rational design, involving the fundamental theories of the elasticity and resistance of such materials as iron and steel. The analysis of the simple forms of modern bridge trusses, extended so as to include the fundamental elements of graphical analysis, the theory of continuous bridges, and the application of the theories of least work and influence lines. The latter portion of the lecture included the treatment of masonry arches and suspension bridges with examples of applications to the longest spans yet contemplated.
    - 18. Waterworks for Cities and Towns: This lecture covered some of the general considerations bearing upon the selection of suitable water supplies for cities and towns, the collection and handling of such supplies, and the systems of distribution required for transmission to consumers, with special application to existing conditions in New York City. Attention was also given to the proper sanitary treatment of potable waters including the application and operation of modern filters.
    - 25. Some Features of Railroad Engineering: The first part of this lecture was devoted chiefly to a few of the main features of railroad location, illustrated by some of the more marked and difficult pieces of that class cf work in this and other countries. A general and condensed statement of some features of modern railroad signaling was set forth. The

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latter portion of the lecture included the consideration of a few of the latest instances of locomotive construction, including some of the heaviest and most powerful machines yet constructed.

- 4. Nicaragua Route for the Isthmian Ship Canal: There were given in this lecture general considerations bearing upon the construction of canals for heavy traffic, after which a detailed description of the salient features of the Nicaragua route was set forth. This treatment of the Nicaragua line was based upon the extended investigations recently completed by the Isthmian Canal Commission.
  - 11. The Panama Route for the Isthmian Ship Canal: A concise and complete treatment of the canal situation on the Isthmus of Panama, including the status of the old and new Panama Canal Companies, was given in this lecture. The greater portion of the lecture, like the preceding, covered the detailed investigations recently completed by the Isthmian Canal Commission.

### LECTURES UNDER DEPARTMENTAL AUSPICES

### AT THE UNIVERSITY

### Department of Astronomy

| January | 10. | The Cause of an Ice Age. Sir Robert S. Ball, F.R.A.S. |
|---------|-----|---|
| April   | 8.  | Modern Mars. Percival Lowell, Director of Lowell      |
|         |     | Observatory, Flagstaff, Arizona.                      |
| * *     | 16. | Experiences on the Total Solar Eclipse. Expedition    |
|         |     | to Sumatra. S. Alfred Mitchell, Ph.D., of Colum-      |
|         |     | bia University.                                       |
| " "     | 23. | The Capture of a Comet by Jupiter. Charles Lane       |
|         |     | Poor, formerly Professor of Astronomy at Johns        |
|         |     | Hopkins University.                                   |
| 6 6     | 20  | Some Recent Remarkable Results of Astronomical        |
|         | 50. | Photography. John K. Rees, Professor of Astron-       |
|         |     | omy at Columbia University.                           |
|         |     | only at columbia oniversity.                          |
|         |     | Department of Geology                                 |
| April   | 22. | Some Possibilities in Geography Resulting from the    |
| -       |     | Revival of an Ancient Method of Map-Making.           |
|         |     | Samuel L. Penfield, M.A., Professor of Mineralogy     |
|         |     |   |
| 16      |     | in Yale University.                                   |
| May     | 7.  | Volcanoes and Volcanic Action. Prof. James F.         |
|         |     | Kemp  |

March

Department of the Germanic Languages and Literatures

| January<br>" | 15.<br>22. | Frubste Erinnerungen. Carl Schurz, LL.D.<br>Germanische Sagen in den Wagenerschen Opern.<br>Arthur F. J. Remy, Ph.D.              |
|--------------|------------|---|
| 6.6          | 29.        | Berlin. Illustrirt. Henry Zick, Ph.D.   |
| February     | -          | Ossian und sein Verhaltnis zur deutschen Litteratur.<br>Rudolf Tombo, Jr., Ph.D.  |
| " "          | 19.        | Grillparzer als Lyriker. Mr. Udo Brachvogel.  |
| **           | 26.        | Das deutsche Theater in New York. Mr. Heinrich<br>Conried, Director of the Irving Place Theatre.                                  |
| March        | 5.         | Amerika in der deutschen Dichtung. Emil A. C.<br>Keppler, A.M.  |
| **           | 12.        | Das Harzgbirge. Illustrirt. Rev. August Ulmann,<br>S.T.D., Rector of Trinity School.  |
| **           | 19.        | Zwei Dichter des Weltschmerzes: Holderlin und<br>Lenau. Wilhelm A. Braun, A.B.  |
|              | 26.        | Friedrich der Grosse und die Vereinigten Staaten von<br>Amerika. Mr. George von Skal, editor of the New<br>Yorker Staats-Zeitung. |
|              | De         | partment of Indo-Iranian Languages  |
|              |            | Lectures on India   |
| February     | 4.         | The Parsis of Modern Zoroastrians of Bombay. Pro-<br>fessor A. V. Williams Jackson.   |
| "            | 11.        | Literary Landmarks of India. Professor A. V. Wil-<br>liams Jackson.   |
| "            | 18.        | Scenes Connected with Buddha's Life and Fame. Pro-<br>fessor A. V. Williams Jackson.  |
| 6.6          | 25.        | Hindu Mythology. Professor A. V. Williams Jackson.  |
| March        | 4.         | Shrines, Monuments, and Temples of India. Pro-<br>fessor A. V. Williams Jackson.  |
| " "          | 11.        | How the West Became Acquainted with India. Dr<br>Arthur F. J. Remy.   |
| "            | 18.        | Sketch of the Indian Philosophical Systems. Mr.<br>Montgomery Schuyler, Jr., M.A.   |
| April        | 23.        |   |
|              |            | Faculty of Political Science  |
| The          | Whit       | e Man's Burden. G. Lowes Dickinson, M.A.  |
| Decembe:     | r 2.       | I. The Government of Dependencies, with Special<br>Reference to India.  |

6. II. Blacks and Whites.

"

" 10. III. The South African Crisis and its Historical Antecedents. Department of Romance Languages and Literatures

| November |     | Un prodige scientifique: Evariste Gallois (1826-                                   |
|----------|-----|--|
|          |     | 1846). Professor Jacques Hadamard, LL.D.   |
| . "      | 14. | Victor Hugo: I. La France en 1802. Professor Cohn.                                 |
| 6.6      | 21. | Victor Hugo: II. Les fils des soldats de l'Empire.<br>Professor Cohn.              |
| December | 5.  | I. Victor Hugo: Les fils des soldats de l'Empire.<br>Professor Cohn.               |
| 4.6      | 12. | Victor Hugo: III. Victor Hugo royaliste. Professor<br>Cohn.                        |
| January  | 9.  | Victor Hugo: IV. Le Romantisme; la Préface de                                      |
| Junuary  | 3.  | Cromwell. Professor Cohn.  |
| * 1      | 16. | Victor Hugo: V. La Bataille d' Hernani et la Révo-<br>lution. Professor Cohn.      |
| 6.6      |     | Victor Hugo: VI. Victor Hugo et la légende Napo-                                   |
|          | 23. | léonienne sous la monarchie de juillet. Professor<br>Cohn.                         |
| February | 6.  | La Poésie de la Science et la Science de la Poésie. M.                             |
|          |     | Lazare Weiller, Délégué du Gouvernement français.                                  |
| 6.6      | 13. |  |
|          | Ť   | tisme; la chute des Burgraves. Professor Cohn.                                     |
| 66       | 20. | Victor Hugo: VIII. Révolution, République, Demo-<br>cratie (1848). Professor Cohn. |
| March    | 6.  | Victor Hugo: IX. Le Deux-décembre. Les Châti-                                      |
|          |     | ments. Professor Cohn.   |
| 4.6      | 13. | Victor Hugo: X. Guernesey. Professor Cohn.   |
| 4.6      | 20. | Le Père Lacordaire. Father Delaplanche, of the So-                                 |
|          |     | ciety of the Fathers of Mercy.   |
| 6.6      | 27. | Six semaines au Labrador. Mr. Daniel Jordan.                                       |
| April    | 3.  | Victor Hugo: XI. L'Année Terrible. Professor Cohn.                                 |
| **       | 10. | Les Bergères du Lignon. Mr. Henry Bargy.   |
| **       | 17. | Lecture in Spanish. Cuba y los Estados Unidos.                                     |
|          |     | Commandant de Mestre y Amabile.  |
| "        | 24. | Victor Hugo. XII. Les Dernières Années. Professor<br>Cohn.                         |
|          |     |  |
| La       | Fam | ille Française. Monsieur Hugues le Roux.   |

| March | 8.  | La famille française, hier et aujourd'hui.                   |
|-------|-----|--|
| 6.6   | 10. | Le français d'aujourd'hui, l'homme et le jeune               |
|       |     | homme.   |
| 4.6   | 12. | La française d'aujourd'hui, la jeune fille et la femme.      |
| 6.6   | 15. | La crise du mariage.   |
|       |     | Department of Zoölogy  |
| April | II. | A Journey to Japan and the Philippines. Bashford Dean, Ph.D. |

# APPENDIX 3

## COMMITTEE ON EMPLOYMENT FOR STUDENTS

## REPORT OF ACTING SECRETARY, 1901-02

During the year under review, a total of 228 men applied to the Committee for assistance. Of these, 118 reported, upon blanks provided by the Committee, the amount of money which they earned during the period from July 1, 1901, to May 15, 1902, and the amount which they would probably receive from May 15 to October 1. A summary of these reports follows:

### FROM JULY 1, 1901, TO MAY 15, 1902

| Tutoring and Teaching:                     |            |                  |
|--|------------|------------------|
| With the aid of the Committee              | \$3,404 83 |                  |
| Without the aid of the Committee           | 5,025 50   |                  |
|  |            | \$8,430 33       |
| Clerical Work:                             |            |                  |
| With the aid of the Committee              | 339 35     |                  |
| Without the aid of the Committee           | 1,723 55   |                  |
|  |            | <b>2,</b> 062 90 |
| Technical Work:                            |            |                  |
| With the aid of the Committee              | 170 00     |                  |
| Without the aid of the Committee           | 548 65     |                  |
|  |            | 718 65           |
| Miscellaneous Work:                        |            |                  |
| With the aid of the Committee              | 1,545 50   |                  |
| Without the aid of the Committee           | 2,906 80   |                  |
|  |            | 4,452 30         |
|  |            | \$15,664 18      |
| Estimated Earnings for the Summer of 1902: |            |                  |
| With the aid of the Committee              | 2,216 00   |                  |
| Without the aid of the Committee           | 3,615 00   |                  |
|  |            | 5,831 00         |
|  |            | \$21,495 18      |

The most important extension of the work has been an organized attempt to procure positions in hotels for our men during the summer. Five hundred letters were sent to the proprietors of the more important summer hotels, and as a result, eleven men have been provided for directly through the assistance of the Committee. As usual, most of the money which has been earned by students has been by private tutoring, but the two or three competent stenographers who are on the list of the Committee have also been able to find all the work they could attend to at the University. Many other forms of work, varying in importance from attendant at a ping-pong table to a geological expert in a legal case regarding a boundary line, have been obtained for our students.

In general, the year's experience has shown that the opportunities in New York for a presentable man who is really competent to do some one thing thoroughly well, are very large indeed, if such a man has at least three hours of each day to himself; and while of course it is impossible to guarantee work in any individual case, the Committee feels justified in encouraging such a man to come to Columbia with the expectation that he will be able to pay at least a fair proportion of his expenses. The Committee ought, however, to say frankly that it can be of almost no assistance to students in medicine and applied science, except during the summer vacations (and even here the engineering men have but little time to spare). The amount of practical work which the University demands from these men makes it, barring exceptional cases, simply impossible for the Committee to provide work, or for the men to perform it without injustice to their studies.

For the present, the Committee has very few opportunities to provide work for the women students in the graduate schools, although in the future it is hoped that it can be of some assistance to them as well as to the men in the University.

The Committee is anxious to emphasize to all persons who may read this report that its primary object will be, not to recommend students on account of their financial need (although this, of course, will be considered when other things are equal), but to endeavor to provide a thoroughly competent person for any work which may be brought to its attention, and to make no recommendations at all rather than to attempt to fill any position with a second-grade man. The Committee would also make it clear that, again when other things are equal, it intends to recommend men who have come to Columbia from other parts of the country, as they are presumably at additional expense for board and lodging, and, also, they are less familiar with the opportunities for earning money in New York.

> F. P. KEPPEL, Acting Secretary, Committee on Employment for Students.

May 26, 1902.

# APPENDIX

## THE ORGANIZATION OF INSTRUCTION IN THE NATURAL AND EXACT SCIENCES AT COLUMBIA UNIVERSITY

PRESIDENT'S ROOM, April 23, 1902.

Prof. J. McK. Cattell, Columbia University. DEAR PROFESSOR CATTELL:

Assuming the present admission requirements, both in science and in other subjects, for Columbia College and for the Schools of Applied Science, I should like advice as to how the instruction in the exact and descriptive sciences should be planned and organized, with reference to the best possible results for the University as a whole. The needs of the three following classes of students are to be kept in mind:

1. Those who wish to take much scientific instruction during an undergraduate course with a view to specializing during a period of graduate study in some special field or department;

2. Those who wish to lay the best possible basis during an undergraduate period of study for professional studies in medicine or in the applied sciences; and

3. Those who wish to obtain some knowledge of one or more departments of science as part of a liberal education.

The instruction in the exact and descriptive sciences as now provided for by Columbia University has never been studied or organized as a whole. It has grown up piecemeal under the pressure usually of a practical demand. I should like to get light upon the proper treatment of it as an end in itself, and as part of our University work, looking at that work in the largest possible way. To this end I am asking Professors R. S. Woodward and Wilson, together with yourself as chairman, to act informally as an advisory committee to me. I should be glad to have a written and detailed expression of the conclusions of this committee, if possible before Commencement Day.

Very truly yours,

(Signed) NICHOLAS MURRAY BUTLER, President.

May 29, 1902.

President Nicholas Murray Butler, LL.D.

Sir:

We shall reply somewhat fully to your letter of April 23, asking for a report on the organization of instruction in the natural and exact sciences at Columbia University, since the subject appears to be of great importance both for the University and for science. As you state, instruction in the sciences has never been systematically organized at this University, and we are in this regard at a disadvantage as compared with other institutions. At least six groups of students should be considered: (1) Those who intend to go forward to advanced scientific work at the University; (2) those who wish to teach science in elementary, secondary, and normal schools; (3) those who wish to prepare themselves to be scientific experts under the government and curators of museums; (4) those who wish the best preparation for medicine and applied science; (5) those who regard an education largely scientific as the best general training for certain other professions or lines of business, and (6) students whose main work is in other directions, but who elect one or more courses in science.

The methods that have been adopted elsewhere for instruction in the sciences may be divided into three main groups:

(1) Special scientific schools or departments have been established, the course of study usually leading to the B.S. or Ph.B. Harvard, Yale, Princeton, and many of the older

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institutions maintain such schools. The difficulty has been that the standard of entrance and graduation in these schools is lower than in the academic departments. Their signification has been chiefly negative, the B.S. not meaning that the graduate is well-trained in science, but that he has not studied the classical languages. These schools have also usually combined professional work in engineering and the like with the study of science as an end in itself, to the disadvantage of the latter.

(2) The State universities have, as a rule, established three co-ordinate colleges or courses, leading respectively to the A.B., the B.S., and the Ph.B. degree. The difference in these courses is chiefly a matter of the entrance examinations, and the A.B. degree does not hold its own in comparison with the other degrees. This method (cf. the recent action of Cornell, Michigan, Texas, and Minnesota) is apparently tending to become

(3) The method of the Johns Hopkins University, which other universities seem likely to adopt. This is to have one college or undergraduate department leading to the A.B. degree. The group system is usually adopted, and the name of the group is sometimes attached to the degree.

Your committee believes that of the three plans enumerated the first is the worst and the last is the best. Our school of applied science has been well established as a technical school and should be maintained as such. In a school such as the Lawrence Scientific School of Harvard University, or the Sheffield Scientific School of Yale University, technical work and scientific work are confused. For the students studying the sciences as such, the only distinction between those in the college and those in the scientific school may be that the latter have not passed an entrance examination in Latin. Harvard University also maintains the M.S. and D.S., which may mean not that the students have had a different college and university course from those receiving the A.M. and Ph.D., but that they have attended a different kind of preparatory school. These degrees are, consequently, but seldom con-The scientific school in some universities has a ferred. three-year course as compared with a four-year course in

the academic department, the entrance examinations are lower, the training in science is often inferior and may even be less in quantity than in the academic department, and the students tend to come from a lower social class; as a result the school of science and its B.S. degree occupy a second-rate position at the university. Should we here establish courses based primarily on the sciences, they must be equal in every respect to the courses based on other subjects.

The plan of three co-ordinate courses-based respectively on language and literature; on philosophy, history, and political science, and on natural and exact science—is preferable to a school of science inferior to the academic department. This method could here be introduced conveniently, as the three colleges would lead up to our three graduate faculties. It would also permit the easy establishment of the courses in commerce, etc., that have been planned. The difficulty appears to be that a college of science would at first be small as compared with the college of arts, as most of those who wish to study the sciences would probably still enter the college of arts. It would cause needless duplication, as most of the professors in the new college would also be members of the historic faculty. There are no satisfactory degrees for the different colleges. We already use the B.S. for technical work in chemistry, architecture, and education, and it has nowhere a definite meaning as a degree for a scientific education. It is possible that we might give a B.Sc. (Columbia), and make it equal to the degree of the University of London (in England B.S. refers to surgery), but this would be difficult of accomplishment. There is danger lest a college of science would not be in fact co-ordinate with the present college, but would become a second-rate department, as in the case of the scientific schools already mentioned.

The third plan—one college with the group system leading to the A.B. degree—appears to be in the line of evolution. The college course and the A.B. degree no longer mean a classical or even a linguistic and literary training. At the English universities this degree may be granted for studies exclusively in the sciences. This is also the case at Harvard with the exception of one required course in English. It is also in large measure true at this University,\* the elections in the junior and senior years last year having been as follows:

| Ancient languages                | 72  |
|----------------------------------|-----|
| Modern languages                 | 433 |
| Philosophy and political science | 494 |
| Natural and exact sciences       | 200 |

Our alternatives therefore appear to be the establishment of a new college, leading to the B.S. (possibly B.Sc.) degree, which might be temporarily administered under the present college or the faculty of pure science; or the arrangement of properly co-ordinated courses in the sciences under the present college, leading to the A.B. degree. The second of these alternatives appears to this committee both better and more in accordance with present educational tendencies.

A group system with adequate provisions for properly co-ordinated courses in the sciences can be arranged in our college if agreement can be reached regarding the requirement of Latin at entrance (or for the degree) and the other studies required of all students in the course. Should agreement on these points be found impracticable for the present, it may still be possible to arrange a suitable group system in the present college leading to the degree either of B.A. or B.S.; but this would be regarded as only a temporary expedient.

We believe that the group system should be adopted despite certain practical difficulties that might be encountered in its operation. There is room for difference of opinion as to

\* We add the registration at the University of Chicago for the last winter quarter. The relative registration in the sciences is larger and more typical than here, indicating our lack of proper organization.

| Ancient languages                | 395  |
|----------------------------------|------|
| Modern languages                 | 1165 |
| Philosophy and political science | 1082 |
| Natural and exact sciences       |      |

the elaboration of the system; indeed it would be undesirable to lay down fixed rules in advance of experience. In general, however, it is suggested that the basis of the system should be a classification of studies as far as practicable into minor courses and major courses, to which may profitably be added in some departments elective post-major courses. Minor courses (which may be given as required studies or as free electives) would consist, say, of five points for one year, majors of the same amount of work for two years, and postmajors of a third year in the same subject. In many departments minors could probably be divided profitably into partial minors of two and three points, thus giving a wider range for free electives.

In general the nucleus of a group would include a major subject combined with two minors or one major in related subjects (20 points), leaving 40 points for post-majors, free electives, and required studies. The committee makes no specific recommendation regarding required studies, but suggests the importance for all scientific students of a good working knowledge of French and German, of courses in English, philosophy, and drawing, and, if practicable, of courses in the general history and methods of science.

It is believed that such a general plan as that outlined above is preferable to a system of pre-requisites in a free elective system. Such pre-requisites would under existing conditions be impracticable in case of the minor courses required of classical or general students, and also in many cases when elected by scientific or other students as free electives. The group system naturally provides not only for pre-requisites, when necessary, but also for a suitable combination of related but not inseparable courses.

We recommend treating separately the first three years and the senior year, the latter being placed under the faculty of pure science, and further, that, as far as practicable, required studies be given in the freshman year; that the work in the major course be in general begun in the freshman or sophomore year; and that free electives, including post-majors, be in general taken in the junior and senior years.

We append schedules showing how the group system might

be applied to the sciences represented by members of your committee.

Respectfully, (Signed) J. MCK. CATTELL, Professor of Psychology. (Signed) R. S. WOODWARD, Professor of Mechanics and Mathematial Physics. (Signed) EDMUND B. WILSON, Professor of Zoölogy.

### PSYCHOLOGY

### ENTRANCE:

| Students are recommended to present:         Mathematics |                      |
|--|----------------------|
| FRESHMAN YEAR:   |                      |
| Preparation for Major                                    |                      |
| Physics  | 3 ''                 |
| Mathematics  | 2 "                  |
| Minor or preparation                                     |                      |
| Physics 2  | " )                  |
| Mathematics 3  | " > 5 points         |
| Chemistry 3  |                      |
| General Biology 2 or 3                                   | "                    |
| Electives or required studies                            |                      |
| English 3  | " )                  |
| German   | **                   |
| French2 or 3   | " $\rangle$ 5 points |
| History 2 or 3   | "                    |
| Drawing2 or 3  | " )                  |
| Shop-work, etc.  |                      |
| SOPHOMORE YEAR:  |                      |
| Major -  |                      |
| Psychology A and 10<br>Psychology                        |                      |

| Minors   |           |
|--|-----------|
| Scientific Methods or 3 points)                        |           |
| Applications of Mathematics2 or 3 "                    |           |
| Physics 2 or 3 "                                       |           |
| Physiology2 or 3 "                                     |           |
| Zoölogy or 3 "   | 5 points  |
| German (Psychology, Literature, and                    |           |
| terminology, etc.)2 or 3 "                             |           |
| French (Psychology, Literature, and                    |           |
| terminology, etc.)                                     |           |
| Electives  |           |
| The above minors or other subjects                     | 5 points  |
| JUNIOR YEAR:   |           |
| Major  |           |
| Psychology 2 and $3$ or 4 ")                           |           |
| Psychology 8 and 9 3 or 4 "                            | 5 points  |
| Psychology 10 2  |           |
| Minors   |           |
| Philosophy or 3 "                                      |           |
| Education  | 5 points  |
| Anthropology2 or 3                                     |           |
| Those of sophomore year                                |           |
| <i>Electives</i><br>The above minors or other subjects |           |
| The above minors of other subjects                     | 5 points  |
| SENIOR YEAR:   |           |
| Major  |           |
| Psychology 6 or 14 2 "                                 |           |
| Psychology 11 or 17 2 "                                |           |
| Psychology 52, 3, or 4 "                               | 5 points  |
| Psychology 7 I point                                   |           |
| Courses open to juniors 5 points )                     |           |
| Minor  |           |
| Those of junior year, etc                              | 5 points  |
| Those of junior year, etc                              | 5 points  |
|  | 5 points  |
| ZOÖLOGY  |           |
| ENTRANCE:  |           |
| Students are recommended to present:                   |           |
| Mathematics 4 points                                   |           |
| Physics  |           |
| T 414  | 15 points |
| German 2 "   | -J Pointo |

German..... 2 French..... 2

Latin...... 2

44 ...

96

| FRESHMAN YEAR:                        |       |          |
|---------------------------------------|-------|----------|
| Preparation for major                 |       |          |
| Chemistry 3 pc<br>Physics             | ints) |          |
| Physics 2                             | " }   | 5 points |
| Minors or preparation                 | ,     |          |
| German                                | ·     |          |
|                                       | L     | 5 points |
| Drawing or 2                          | a 👔   | J F      |
| Electives or required studies         | )     |          |
| English                               |       |          |
| Mathematics                           | n t   | 5 points |
| History 2 or 3                        | 14 V  | 5 points |
|                                       | J     |          |
| SOPHOMORE YEAR:                       |       |          |
| Major                                 |       |          |
| Elementary Biology 5                  | 6.6   |          |
| Minors                                |       |          |
| Scientific Methods, etc or 3          | " )   |          |
| Botany or 3 "                         | • {   | 5 points |
| Physiology or 3                       | • )   |          |
| Electives, etc.                       |       |          |
| The above minors or other subjects    |       | 5 points |
| JUNIOR YEAR:                          |       |          |
| Major                                 |       |          |
| Zoölogy, etc                          |       | 5 points |
| Minors                                |       |          |
| Botany, Physiology, Geology, Psychol- |       |          |
| ogy, Anthropology, Education, etc     |       | 5 points |
| Electives                             |       | ~ -      |
| The above minors or other subjects    |       | 5 points |
| SENIOR YEAR:                          |       |          |
| Post-major                            |       |          |
| Zoölogy, etc                          | 4.4   |          |
|                                       |       |          |
| Minors                                | 4.4   |          |
| Those of junior year, etc 5           |       |          |
| Philosophy recommended.               |       |          |
| Electives                             |       |          |
| Those of junior year, etc             | 6.6   |          |

### INSTRUCTION IN SCIENCES

## MATHEMATICAL PHYSICS

| (Suggested scheme of work for students desiring to make a spec<br>of the mathematico-physical sciences) | ia | l study |
|---|----|---------|
| ENTRANCE:   |    |         |
| Students are advised to present:  |    |         |
|   |    | - cinta |
| Mathematics.  |    | points  |
| Botany, Geology, Zoölogy (one natural science)  |    | point   |
| Physics or Chemistry  |    | points  |
| English   |    |         |
| French  |    |         |
| German  | 3  | "       |
|   |    |         |
| FIRST YEAR:   | 15 |         |
| Major   |    |         |
| Mathematics   | 2  | "       |
| Physics   |    | "       |
| Minors  | 2  |         |
|   | ~  | **      |
| Chemistry   |    |         |
| Natural Science   | 3  |         |
| Elective or required work in Language, History,   |    |         |
| Political Science, etc.   | 5  | * *     |
|   | 5  |         |
| Second Year:  |    |         |
| Major   |    |         |
| Mathematics   | 3  | * *     |
| Mechanics   | -  | " "     |
| Minors  | -  |         |
| Physics or Chemistry, with laboratory work  | 2  | " "     |
| Natural Science   |    | "       |
|   | 4  |         |
| Elective or required work in Language, History,   |    |         |
| Political Science, etc  | 5  | " "     |
|   | Ť  |         |
| THIRD YEAR:   |    |         |
| Major   |    |         |
| Mechanics   | 3  | "       |
| Mathematical Physics (some branch of heat, light,   |    |         |
| sound, electricity, magnetism, etc., treated  |    |         |
| mathematically)   |    | 66      |
| Minors  |    |         |
| Observational Astronomy and Geodesy   | 3  | " "     |
| Physics or Chemistry  |    | 6.6     |
| 1 11 0 00 01 0 10 10 10 10 10 10 10 10 1  | -  |         |
| Elective or required work in Language, History,   |    |         |
| Political Science, etc  | 5  | 66      |

| FOURTH | YEAR:                          |   |        |
|--------|--------------------------------|---|--------|
| $Ma_j$ | jor                            |   |        |
|        | Mechanics                      | 2 | points |
|        | Mathematical Physics           | 3 | 66     |
| Mir    | 10 <b>7</b> S                  |   |        |
|        | Electricity and Magnetism      | 3 | 66     |
|        | Physical Astronomy and Geodesy | 2 | 66     |
|        | Elective or required work      | 5 | 66     |

APPENDIX 5

# GIFTS AND BEQUESTS 1901-02

|  | \$ 12,000 00   | I,000 00   | 100,000 00   | 10,000 00<br>1,000 00   | I,000 00   | 140.533 44  | \$274,533 44                | 19,540 38<br>811 25   | 20,351 63                            |  | \$294,885 07                            |
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|  | :  |  | :  |   | :  | •<br>•<br>•   |                             | ::  |                                      |  |   |
|  | Dean Lung  | Mah Jim  | Anonymous  | Anonymous<br>Philolexian Society  | From an associate of Mr.<br>Curtis in Civil Service<br>Reform Work |   |                             | William E. Dodge<br>From the Alumni                         |                                      | Anonymous<br>Anonymous   | ••••••••••••••••••••••••••••••••••••••• |
| Gifts and Bequests for the Creation of<br>Trust Funds: | For the Dean Lung Foundation for<br>the Study of Chinese | For the Dean Lung Foundation for<br>the Study of Chinese | For the Dean Lung Foundation for<br>the Study of Chinese | Class of 1848 Scholarship Fund<br>For the Philolexian Centennial<br>Washington Prize Fund | For the George William Curtis<br>Medals Fund                       | On account of <sup>1</sup> / <sub>8</sub> residuary estate of<br>the late Stephen Whitney Phœ-<br>nix | For Buildings and Grounds : | For the completion of Earl Hall<br>For Alumni Memorial Hall | For Designated Purposes<br>Library : | Completion of Parliamentary Papers<br>Crimmins-Mansi Fund<br>Educational Catalogue | Carried forward                         |

GIFTS AND BEQUESTS

|                        | PRESIDENT'S ANNUAL REPORT                              |  |  |  |  |   |   |                                  |   | IOI  |   |                               |   |
|------------------------|--|--|--|--|--|---|---|----------------------------------|---|--|---|-------------------------------|---|
| \$294,885 07           |  |  |  | 17,466 22  |  |   |   |                                  |   |  |   | 10,012 82                     | \$322,364 II  |
| \$2,750 00<br>3,000 00 | 150 00   | 350 00   | 10,000 00<br>1,216 22  |  | 1,500 00   |   | 650 00  | 650 00                           | όζο οο  | 250 00<br>12 82  | 200 00<br>200 00<br>5,750 00  | 150 00                        |   |
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| Adolph Lewisohn        | James Loeb   | F. A. Schermerhorn                             | Anonymous<br>S. P. Avery   |  | Alumni Association, Col-<br>lege of Physicians and<br>Surgeons | New York Chapter<br>Daughters American<br>Revolution              | Mrs. Herbert Parsons<br>Miss Elizabeth Billings | Anonymous                        | Anonymous   | For the University Set-<br>tlement Society<br>W. R. Ware   | Benjamin B. Lawrence<br>Wawepex Society<br>Losenh Pulitzer                | Mrs. Sarah M. Toppan,<br>exc. | •<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• |
| Brought forward        | versity Dissertations<br>For Works on Labor and Allied | Subjects<br>Special Fund for the Completion of | the Townsend Records<br>Special Fund for Purchase of Books<br>Avery Library, for the Purchase of | Books<br>Fellowships, Scholarships, and Prizes : | Annual Fellowships, School of<br>Medicine                      | Annual Scholarship in American<br>History, 1902–03, to be held by | d WOIIIdal                                      | Annual Fellowship in Comparative | Literature, 1901-02<br>Annual Fellowship in German, | 1001-02<br>Annual Fellowship of the Univer-<br>sity Settlement Society<br>Toward the Perkins Fellowship in | Architecture<br>Annual Scholarship in Mining<br>John D. Jones Scholarship | Toppan Prize in Municipal Law | Carried forward   |

| 102<br>11 9322'364 II | \$2,500 oo                                       | ···· 7,000 00<br>···· 1,000 00  | 4,000 00                                       | <i>GIF</i> 00 000'I              | \$150 00<br>\$150 00<br>\$150 00<br>\$150 00<br>\$10 00<br>\$100<br>\$1 | 200 00<br>775 00  | 7,500 00<br>7,500 00<br>472 13   |
|-----------------------|--|---|--|----------------------------------|--|---|--|
|                       | Anonymous  | F. A. Schermerhorn<br>George W. Hill  | Anonymous                                      | Anonymous                        | George E hr e t, Fritz<br>Achelis, Rudolph Kep-<br>pler, Herman Ridder,<br>G. E. Stechert, Lemcke<br>& Buechner, Ernst<br>Lemcke, Gustav H.<br>Schwab, Prof. Emil L.<br>Boas, and the Deuts-<br>cher Verein<br>J. A. Ripley<br>Anorymous   | C. F. Cox<br>W. B. Kunhardt<br>John Stanton<br>F. A. Schermerhorn | Through Wm. H. Bald-<br>win, <i>Chairman</i><br>Mrs. F. S. Lee   |
| Brought forward       | Departmental:<br>Department of Anthropology, for | Active Salaries Active for Salaries, 1901–03<br>Astronomy, to Catharine Bruce | Chinese, for Salaries and Current<br>Expresses | Comparative Literature, for Sal- | Germanic Department, Special<br>Equipment Fund<br>Mechanical Engineering, Labora-<br>tory and Summer Course  | Mineralogy, for Special Equipment<br>Mining, Special Fund         | Philosophy and Psychology, for<br>Salaries, 1902-05<br>Physiology, for Equipment of Un-<br>dergraduate Laboratory<br>Romance Languages, French Lec-<br>ture Fund |

GIFTS AND BEQUESTS 1901-02-Continued

#### GIFTS AND BEQUESTS

| \$322,364 II  |                     | 30,222 I3   |                 |  |   |                                    | 96,339 40   | \$448,925 64 |
|---|---------------------|---|-----------------|--|---|------------------------------------|---|--------------|
| \$26,222 I3   | 3,000 00            |   |                 | 68,733 82<br>25,250 00<br>500 00   | 40 58   | 615 00                             | 1,200 00  |              |
| \$ 500 00<br>1,000 00   | 500 00<br>1,000 00  |   |                 |  | :   | 307 50<br>307 50                   |   |              |
| Anonymous<br>Anonymous<br>Rev. E. A. Hoffman<br>St. Bartholomew's | Church<br>Anonymous | Anonymous   |                 | Anonymous  |   | J. P. Morgan<br>Mrs. Sarah Bronson |   |              |
| Brought forward   |                     | Zoölogy, to provide for a series of<br>Public Lectures by Prof. Jacques<br>Loeb | Miscellaneous : | For the Interest Fund, 1900-1901<br>For the Interest Fund, 1001-1902<br>Salary of the Secretary of the | Woman's Graduate Club<br>Women's Evening Session in the | Gucational Deficiency, 1900–01     | From a graduate of the School of<br>Arts who enjoyed the privilege<br>of free tuition while an under-<br>graduate | )            |

PRESIDENT'S ANNUAL REPORT

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| 1901–02–Continued |
|-------------------|
| AND BEQUESTS 1    |
| <b>JIFTS AND</b>  |

| Money |
|-------|
| than  |
| other |
| Gifts |

Plaster bust of De Witt Clinton

A collection of valuable Avestan manuscripts

700 paper impressions of Greek inscriptions Samples of minerals and printed matter Portrait of George Washington attributed to Gil-Bust of Beethoven bert Stuart

1100 autograph letters and letter books from the correspondence of De Witt Clinton from 1793 to 1828.

Photograph of S. P. Avery

Collection of ancient and modern works comprising more than 6000 volumes, known as the T<sup>o</sup>u Shu

Chi Sh'eng Sample board of the sockets used with wire cable, and a similar board of the hooks used at the end of wire ropes

Portrait of Professor Ware

Gold and silver medals

18 Babylonian tablets

Manuscript petition from the Class of 1811 ad-dressed to the Trustees of the College, in respect of the disturbance at Commencement in that

Bronze bust of Benjamin Franklin

Wm. C. Schermerhorn S. Oettinger Chinese Government of Professor Ware J. Ackerman Coles Pan-American Anonymous versity For exhibition in the Uni-Department of Mechanical Engineering For Exhibition in the Uni-Department of Indo-Iranversity For the University Library For the Avery Library For the University Library Memorial to George Wil-liam Curtis Department of Semitic Lan-For exhibition in the Uniian Languages Department of Greek guages For the University versity

Fitzhugh Townsend, A.B. '93; E.E. '96 Through Professor Jackson

Chilian Commission at the Frederick W. Whitridge Edward Delavan Perry

J. H. Williams & Company, 9 Richards St., Brooklyn, Friends and former pupils

John Dyneley Prince

Mrs. Isaac M. Dyckman

....

J. Ackerman Coles For exhibition in the Library

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#### GIFTS AND BEQUESTS

| Miss Mary E. Merington<br>G. F. Seward<br>W. L. Hildburgh, E.E.,<br>Ph.D.  | Hugo Schweitzer<br>L. C. Laudy   | H. J. Davis<br>Charles H. Dufourco          | Max Muspratt<br>George Cameron Stone,   | Ph.B., 79<br>Castner Electrolytic Alkali                              | Volupauy<br>National Electrolytic Com-      | Charles M. Hall                                  | Edward G. Acheson                                 | Walter S. Lenox, Ceramic         | H. D. Fuller, Retsof Mining                  | A. Tibbals                               | I. D. Darling, Philadelphia                       | Erastus Hopkins, Lake<br>Helen Monufacturing Co | Einer and Amend   | George C. O. Haas, A.B., | Clarence P. Crissy, Mech.E.,              | Sideny Mason, of the Wels-<br>bach Co Dhiladalnhia | Clarence B. Schultz                            | J. B. T. Herreshoff, Nichols<br>Chemical Co. |
|--|--|---|---|---|---|--|---|----------------------------------|--|--|---|---|---|--------------------------|---|--|--|--|
| Department of Physics<br>Department of Chemistry   |  | 2 7<br>2 9                                  | 11 11 11<br>11 11   | 11 11 11  | 11 11 11                                    | 11 14 14   | 11 11   |                                  |  |  | 64 64 64  | 11 11 11  | :   | 11 11                    | 11 11 11                                  | 11 11  | 66 64 64                                       | 11 12 11                                     |
| Apparatus and supplies<br>Specimen of $\gamma_1$ % ferro-chromium<br>Specimens of cloissonné, and of Italian shell | Specimens Magnalium, Epicarin, and Hedonal<br>132-cell primary battery and a 60-candle power | Collection of row materials for fertilizers | Specimens illustrating manufacture of soda ash<br>Specimens of ores and products illustrating the | manufacture of zinc<br>Specimens of caustic coda and bleaching powder | Specimen of potassium chloride and chlorate | Specimens illustrating the manufacture of alumi- | Specimens illustrating the manufacture of carbor- | 4 specimens of Belleek porcelain | Specimen of rock salt from Avery Island, La. | Specimen of native sulphur from Colorado | Specimens illustrating the electrolysis of sodium | Specimens of Cassava starch and Comptie starch  | Collection of platinum metals, osmium, ruthe-<br>nium, rhodium, and palladium prepared by | Specimen of Anthracite   | Specimens of volcanic dust from Mt. Pelee | Two large brass stands and Welsbach gas burners    | Collection of specimens illustrating the Gold- | Electrolytic copper refining                 |

#### PRESIDENT'S ANNUAL REPORT

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# APPENDIX 6

# VANDERBILT CLINIC

# Report of Treasurer of Board of Managers for Year Ending June 30, 1902

#### Balance

| July 1 | , 1901 | \$ 6,092 82 |
|--------|--------|-------------|
|--------|--------|-------------|

# Receipts

| Sale of Prescriptions, Surgical Dressings, etc | \$18,963 57 |           |
|--|-------------|-----------|
| Interest on Investments                        | 6,050 00    | 25,013 57 |

#### \$31,106 39

#### Expenses

| Furniture                            | \$ 87  | 25 |             |
|--------------------------------------|--------|----|-------------|
| Salaries and Wages                   | 12,856 | 93 |             |
| Drugs, etc                           | 4,395  | 47 |             |
| Medical and Surgical Appliances, etc | 2,132  | 65 |             |
| Apothecary's Department              | 673    | 05 |             |
| Surgical Instruments and Repairs     | 119    | 85 |             |
| Washing                              | 412    | 39 |             |
| Stationery                           | 395    | 37 |             |
| Current Repairs and Improvements     | 678    | 51 |             |
| Eye Division                         | 226    | 30 |             |
| Water                                | 187    | 80 |             |
| New Formulary                        | 212    | 40 |             |
| Other Expenses                       | 790    | 05 | \$23,168 02 |
| Balance, June 30, 1002               |        |    | \$ 7.938 37 |

### COLUMBIA COLLEGE

#### REPORT OF THE DEAN

#### FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

To the President of Columbia University in the City of New York,

Sir:

I beg to submit herewith my report upon the College for the academic year ending June 30, 1902.

The number of students matriculated during the year was 492, distributed as follows:

| Seniors          | 94     |
|------------------|--------|
| Juniors          | 99     |
| Sophomores       | 102    |
| Freshmen         | 142    |
| Special Students | 55-492 |

In addition to the above there were nineteen university students taking one or more courses in the College, making a total of 511.

A table of the ages of the students at the beginning of the year may be found in the Registrar's Report, as may also the details with regard to the students (thirty-nine in all) admitted on certificate from other colleges.

Of the members of the Freshman class, sixty-three were admitted provisionally—that is, with entrance conditions to fulfil. Such students are held under probation till the end of the first half-year. Just prior to the close of the probationary period, the Dean considers the special reports made by heads of departments in the case of each conditioned student, and determines whether he is to be admitted to full standing, have his period of probation extended, or be dropped from the roll.

Under this provision, twenty-three were advanced to full standing at the end of the first term; the others had their period of probation extended until the beginning of the next academic year. Five members of the Freshman class, four of the Sophomore class, six of the Junior class, and eight special students retired from the College during the year.

Of the ninety-nine members of the Junior class, five were "belated" Seniors—that is to say, were not allowed to matriculate as Seniors because of deficiency in some requirements for advancement to that class; of the one hundred and two members of the Sophomore class, nine were, in the same sense, "belated" Juniors; and of the one hundred and fortytwo members of the Freshman class, thirty-one were, in the same sense, "belated" Sophomores.

Eighty-six members of the Senior class, fifteen "belated" students, one special student, and two who completed the course in three years, one hundred and four in all, satisfied all the requirements for the baccalaureate degree and had conferred upon them, at the Commencement held on the 11th instant, the degree of Bachelor of Arts.

Eight members of the Senior class failed to satisfy the requirements for a degree, and were not graduated.

Under the wide privilege accorded candidates for admission in making the fifteen points required, of the one hundred and twenty-five students admitted on examination to the Freshman class, sixty-three offered both Greek and Latin for entrance, fifty-four offered Latin and not Greek, and eight offered neither Greek nor Latin.

A table is here given, containing the number of hours a week taken by the students in the several classes (of the Seniors, thirteen are unaccounted for, ten having taken the full first-year course in medicine, and three the full first-year course in one of the Schools of Applied Science).

| Hours<br>a week | Freshmen<br>(142) | Sophomores<br>(102) | Juniors<br>(99) | Seniors<br>(94) |
|-----------------|-------------------|---------------------|-----------------|-----------------|
| I 2             | 3                 |                     | 2               | 4               |
| 13              |                   | 2                   | • •             | I               |
| 14              | 6                 | 4                   | 6               | 17              |
| 15              | 57                | 7                   | 7               | 19              |
| 16              | 12                | 18                  | 17              | 18              |
| 17              | 34                | 27                  | 17              | II              |
| ı Š             | 16                | 24                  | 23              | 9               |
| 19              | 6                 | 9                   | 13              |                 |
| 20              | 7                 | 4                   | 5               | I               |
| 2 I             | I                 | 4                   | 5               | I               |
| 22              |                   | I                   | 3               |                 |
| 23              |                   | I                   | I               |                 |
| 24              |                   | i I                 | • •             |                 |

The choice of electives, outside of prescribed subjects, the number of students who have, during the last four years, begun the study of Greek, French, German, Chemistry, Physics, Botany, and Zoölogy, and various other tables heretofore given in this annual report, may be found in the Report of the Registrar.

There are two prizes for bestowal upon members of the graduating class: The Prize of the Alumni Association and the Chanler Historical Prize.

The three students nominated by the Faculty and submitted to the Senior class as candidates for the Alumni Prize of \$50, given annually by the Association of the Alumni to the "most faithful and deserving student of the graduating class," were George Henry Danton, Edward Schuster, and Gilbert Oakley Ward; and the first named was chosen by the class to receive the prize.

The Chanler Historical Prize, consisting of the income of a fund of \$1000 bequeathed by J. Winthrop Chanler, of the Class of 1847, and given annually to that member of the graduating class who shall be the author of the best original manuscript essay in English prose on the history of civil government in America, or some other historical subject assigned by the Faculty, was not awarded.

Five scholarships of the annual value of one hundred and fifty dollars each during the College course are open for competition to candidates for admission to the Freshman class who are examined in June and pass complete entrance examinations in subjects aggregating the fifteen points requisite for admission. The Alumni Competitive Scholarship, open to all candidates. The papers of the candidates who pass a satisfactory examination are considered by the Committee on Admissions, and the one whose papers as a whole are entitled to the highest rank is awarded the scholarship. At the recent examinations, this scholarship was awarded to G. T. Hirsch, Park Avenue School, general average 84.9 per cent. of a possible maximum.

A Hewitt or Harper Scholarship, open for competition to graduates of the New York City High Schools. At the recent examinations, a Harper Scholarship was awarded to Max Kahn, DeWitt Clinton High School, general average 80.4 per cent.

Three Brooklyn Scholarships open for competition to candidates who are residents of Brooklyn, N. Y., and have received their training in either the public or the private schools of that borough. The papers of the qualified competitors who pass a satisfactory examination are considered by the Committee on Admissions, and the three candidates whose papers as a whole are entitled to the highest rank are awarded the scholarships. At the recent examinations these scholarships were awarded to

L. F. SCHIFF, Brooklyn High School, average, 79.6

W. L. CASWELL, Brooklyn High School, average, 77.8

H. W. EASTMAN, Polytechnic Institute, average, 75.8

Upon Mr. Schiff's withdrawal (to enter the Cornell Medical School) the Committee awarded the third scholarship to N. Dickler of the Boys High School, average, 76.5.

One of the regulations as to elective studies is the following:

"The Dean and the head of the department concerned may permit any study prescribed for the degree of Bachelor of Arts to be taken as an elective in an earlier year than that for which it is set down."

There appears to be a growing desire and tendency on the part of students to take advantage of this regulation. The design is, of course, to accomplish all that is practicable, and that may be allowed, of the obligatory work in the Freshman and Sophomore years, thus leaving the latter years free for as much specialization as may be permitted in the direction of a profession or of advanced study in letters and science. This is but one of several forms of protest of the student body, reflecting in this the general sentiment of the community, against the length of time insisted upon for a degree and the consequently late period at which a young man, liberally educated, can undertake the business of his life.

As is apparent from the table of ages given in the Registrar's Report, the average age of students entering the Freshman class tends to increase, and is now, in the interest of collegiate training, entirely too high. Of the one hundred and twenty-five students admitted on examination to the Freshman class of this current year, more than one-half were over eighteen years of age and less than one-sixth were under seventeen.

Within a generation, great improvements have been made in the science and art of teaching. Much more can be accomplished now and more effectively, in a given time, than was practicable a third of a century ago. This improvement seems to have been utilized to shorten the academic year rather than the entire period of study required for a degree. Would it not be wise to attempt a change in this regard? Is it not time that the discussions, the experiments, the experiences, and the improvements of the last forty years in educational matters should be crystallized into forms of action that would preserve the essential ingredients of a liberal education, as commonly agreed upon, and yet diminish materially the time necessary to obtain the degree of Bachelor of Arts? In allowing students who have completed their Junior year in the College to take their final year under one of our university or professional faculties and count it towards the Bachelor's degree, have we not practically and officially expressed the conviction that a course of three years in the College is sufficient for that degree? In the arrangements lately made by which a student may, in his discretion, take eighteen "points" a year and, by permission of the Dean or work in the Summer Session of the University, or both, make at least two more, and so, in three years or even somewhat less, obtain the sixty "points" required for the degree, have we not recently reaffirmed, in a decided manner, the same conviction? Are we not already logically committed to a three years' course for the Bachelor's degree? Why then, should we not plainly say so and make arrangements accordingly?

A further amelioration of the present condition might possibly be effected by placing all studies essential to and required for the A.B. degree in the first two years of the College course. At the mature age at which the student now, generally, enters upon his college work, and with the greatly improved methods of teaching in preparatory and high schools, this can, I believe, profitably be done. If it were done, the reasonable desires of the students referred to above would be met, and the third year (if three years be settled upon as the limit required for the A.B. degree) or the third and fourth years (if four years are still deemed necessary) would be available for more extended and effective study in philosophy, history, economics, letters, and science, or for abbreviating and possibly enriching subsequent courses for a professional degree. It would also make practicable a most important provision which is here urgently recommended in the interest of sound learning and of adequate professional training-the placing of all the technical and professional schools of the University upon the first two years of the College course or its equivalent.

I am aware that a year hence, a first degree or its equivalent is to be required for admission to the Law School; but I have grave doubts whether such a degree, if obtainable only after a three or four years' collegiate course, can long remain a feasible pre-requisite for entrance upon the study of law in that school. If the relation of Teachers College to the University would warrant it, or its governing body would sanction it, that college might, I think, with profit to it and to the University, be put upon the same footing in this regard as the other professional schools, at least so far as its higher functions are concerned.

I commend this whole subject to your consideration as one of immediate and grave importance, and am,

Respectfully,

J. H. VAN AMRINGE, Dean.

College Hall, June 28, 1902.

# SCHOOL OF LAW

#### REPORT OF THE DEAN

#### FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

To the President of Columbia University in the City of New York,

Sir:

I have the honor to submit the following report of the condition of the School of Law for the academic year ending June 30, 1902.

The number of students primarily registered in the School during the year has been 440, distributed as follows:

| Third-Year Class 12  | 6  |
|----------------------|----|
| Second-Year Class 15 | ;0 |
| First-Year Class 16  | 2  |
| Special Students     | 2  |
|                      |    |
| Total 44             | 0  |

In addition to the students so registered in the School, 13 students from the College and two from the School of Political Science have taken one or more courses under the Faculty of Law, making a total of 455 students who have been under the direct influence of this School during the year.

The courses given under the auspices of the Law Faculty, the names of the instructors, the number of lectures given per week in each subject, the number of students taking the several courses, and the number presenting themselves for examination therein, are given in the following table:

| Instructors Courses  | Hours<br>per | Number<br>Registered | Number<br>Examined |
|--|--------------|----------------------|--------------------|
| First Year   | week         | 10051010104          |                    |
|  |              |                      |                    |
| Mr. Terry Contracts  | • 4          | 172                  | 164                |
| Mr. Stone Criminal Law   | . 2          | III                  | 108                |
| Prof. KeenerElements of Jurisprudenc   | е            |                      | - ( -              |
| and Equity   | . 2          | 173                  | 163                |
| Prof. Redfield Pleading and Practice<br>Prof. KirchweyReal and Personal Prop | . 2          | 158                  | 157                |
| erty   |              | 180                  | 7.87               |
| Prof. BurdickTorts   | . 2          | 173<br>173           | 171<br>161         |
| Prof. BurgessAmerican Constitutional   | • 2          | -13                  | 101                |
| Law  | . 2          | 57                   | 56                 |
|  |              | 57                   | 5                  |
| Second Year  |              |                      |                    |
| Prof. CanfieldAgency   | . 2          | 134                  | 126                |
| Mr. StoneBailments and Carriers  | . 2          | 106                  | 99                 |
| Prof. KeenerEquity: Trusts   | . 2          | 150                  | 131                |
| Mr. Stone Insurance  | . I          | 3                    | -J-<br>I           |
| Prof. Burdick Negotiable Paper   | . 2          | 150                  | 139                |
| Prof. Redfield Pleading and Practice   | . 2          | 102                  | Ğ2                 |
| Prof. KirchweyQuasi-Contracts  | . 2          | 144                  | 135                |
| Prof. KirchweyReal and Personal Prop   | -            |                      |                    |
| erty   | . 2          | 149                  | 135                |
| Prof. BurdickSales of Personal Property                                      | y 2          | 143                  | 133                |
| Prof. GoodnowAdministrative Law  | . 2          | 7                    | 5                  |
| Prof. BurgessComparative Constitutional Law                                  | -            | 0                    | 8                  |
| Prof. Munroe Smith. Institutes of Roman Law.                                 |              | 9<br>1               |                    |
|  | • ~          | -                    |                    |
| Third Year   |              |                      |                    |
| Prof. KeenerCorporations   | . 2          | 125                  | 124                |
| Prof. KeenerEquity   | . 2          | 125                  | 123                |
| Prof. CanfieldEvidence   | . 2          | 124                  | 122                |
| Prof. Kirchwey Mortgages   | . 2*         | 102                  | IOI                |
| Prof. Canfield New York Law, Doctrine  | s            |                      |                    |
| Peculiar to  | . 2*         | 31                   | 31                 |
| Prof. BurdickPartnership<br>Prof. RedfieldPleading and Practice              | . 2          | 120                  | 119                |
| Prof. Redfield Pleading and Practice   | . 2*         | 27                   | 26                 |
| Prof. KirchweyReal and Personal Prop   |              | 0                    |                    |
| Prof. BurdickSuretyship  | .2<br>.2*    | 118<br>102           | 117                |
| Prof. RedfieldWills and Administration                                       | . 2*         |                      | 100                |
| Prof. BurgessAmerican Constitutiona  | 1            | 115                  | 113                |
| Law  |              | 15                   | 13                 |
| Prof. Munroe Smith. Comparative Jurispru                                     |              | 5                    | Ŭ                  |
| dence  | . 2          | 2                    |                    |
| Prof. Moore Conflict of Laws   | . I          | б                    | I                  |
| Prof. MooreInternational Law   | . 2          | 5                    | I                  |
| Prof. GoodnowMunicipal Corporations  | . I          | 10                   | _                  |
| Prof. Munroe Smith. Spanish-American Law<br>Prof. GoodnowTaxation, Law of    | . I          | 2                    |                    |
| 1 Ior. Gooullow raxation, Law OI   | I            | 7                    |                    |

\* These courses extend through half a year.

| Summ        | ary                 |                             |
|-------------|---------------------|-----------------------------|
|             | umber of<br>Courses | Number of Hours<br>per Week |
| First Year  | 8                   | ıć                          |
| Second Year | I 2                 | 23                          |
| Third Year  | 17                  | 26                          |
| -           |                     |                             |
| Total       | 37                  | 65                          |

Of these 37 courses, 26, aggregating 47 hours of instruction per week, are given by the Faculty of Law, and 11, covering 18 hours of instruction, by members of the Faculty of Political Science.

The changes from the scheme of the preceding year disclosed by this table are:

1st. The disappearance of the course in Office Practice (3d year), and

2d. The temporary suspension of the courses in Domestic Relations (1st year) and Bankruptcy (3d year), owing to lack of means for carrying them on.

3d. The merging of the courses in Common Law Pleading (1st year), Equity Pleading (2d year), and Code Pleading and Practice (3d year) in the general courses in Pleading and Practice, and the extension of the latter from a total of four hours to five hours per week.

4th. The opening of Professor Burgess's introductory course on American Constitutional Law to the First-Year Class, and the extension of his seminar in American Constitutional Law to a two-hour course in Private Rights under the Constitution, offered to the Third-Year Class, with the consequent reduction of his three-hour course in Comparative Constitutional Law in the second year, to two hours.

5th. The assumption by Mr. Stone of the course in Bailments and Carriers (2 hours) in lieu of Common Law Pleading (1 hour) and Equity Pleading (1 hour), and by Professor Redfield of the course in Wills and Administration heretofore given by Professor Houston.

6th. The transfer of the course in Conflict of Laws from Professor Munroe Smith to Professor Moore.

7th. The biennial offering of Professor Munroe Smith's course in Comparative Jurisprudence to the Third-Year Class

and the opening to that class of his new course in Spanish-American Law.

That the new courses of Professor Redfield in Pleading and Practice meet a real demand is evinced by the fact that the number of students taking them is several times larger than the number who have taken the corresponding courses heretofore, the figures for the last two years being as follows:

| Second Year | Third Year |
|-------------|------------|
| 1900–01     | 14         |
| 1901-02 102 | 27         |

As a consequence of the addition of a course in Constitutional Law to the work of the First-Year Class, the course in Criminal Law was made an elective, the students being permitted to choose between the two courses. This accounts for the reduction in the number taking the latter subject.

Attention is called to the increase in the number of students taking the courses in International, Public, and Roman Law offered by members of the Faculty of Political Science, as exhibited in the following table:

|                           | 1900-01 | 1901-02 |
|---------------------------|---------|---------|
| Administrative Law        | •• 3    | 7       |
| Comparative Jurisprudence | —       | 2       |
| Conflict of Laws          | 3       | 6       |
| Constitutional Law I      | —       | 57      |
| Constitutional Law II     | 2       | 9       |
| Constitutional Law III    | —       | 15      |
| International Law         | 3       | 5       |
| Municipal Corporations    | —       | 10      |
| Roman Law                 | 2       | I       |
| Taxation                  |         | 7       |

showing an increase from 13 to 103, or, omitting the new course offered for the first time to the First-Year Class, from 13 to 46.

In this and the two preceding tables no account is taken of students taking optional courses or pursuing courses with reference to other degrees than that of LL.B. The number of such cases is very considerable, however, and the regular attendance is often largely in excess of the registration for a given course. This is particularly true of the courses in Public Law and the Practice courses, and it explains the condition of the course on Insurance, which, as the only one-hour course

иб

offered to the Second-Year Class, could not be elected as a part of the fourteen hours of work exacted of all candidates for the degree of LL.B., and which was, nevertheless, attended by an average of 50 members of that class.

The final examinations for the degree of LL.B. resulted as follows:

Of the 126 members of the Third-Year Class, 124 presented themselves for examination, of whom 15 failed in one or more subjects.

Of former members of the School who were entitled to take the examinations for the degree, nine presented themselves, of whom eight failed in one or more subjects.

The number of candidates upon whom the degree was conferred was 110.

The most important event in the history of the year-the retirement of Professor William A. Keener from the Deanship of the School-occurred before the opening of the academic year, in August last. The circumstances under which Professor Keener assumed that position, and the nature of the results achieved by him during the ten years of his incumbency of the office, make it impossible to pass over the event without comment, although his continued connection with the School as Kent Professor of Law renders the language of eulogy unfitting. Coming to Columbia at a critical time in the history of the Law School and of the University, it fell to him to carry the School through the troubled period of experiment and transformation upon which it had been launched. How well he performed that task, the Columbia Law School of to-day-so largely the result of his clear vision and uncompromising will—bears eloquent witness. It is the earnest hope of his colleagues of the Law Faculty that his wisdom and experience may long continue to be at the service of the School.

The resignation of Mr. Switzer, in January last, afforded the Faculty of the Law School the opportunity of filling the important position of Law Librarian with a graduate of the School. In the appointment of Mr. John D. Kaps, it is believed that a long step forward has been taken in the administration and development of the Law Library. Mr. Kaps has already undertaken a thorough examination of the Library, with a study of its needs and possibilities, and has brought to the task an intelligent comprehension of the problem and a zeal in its pursuit, which argue well for the future of the collection. The meagre resources which our Library commands, as compared with the service it is called upon to perform, render such trained and studied supervision doubly important.

The continued prosperity of the Law School, as exemplified in the steady increase in its numbers, is exhibited in the following table (marked A), showing the membership of the School, and the number and percentage of college graduates during the past ten years.

Two other tables (marked B and C, respectively) are given, showing the geographical distribution of the students, and the colleges from which our support has been derived, during the same period of time.

|            | TA | BLE A   |           |
|------------|----|---------|-----------|
| MEMBERSHIP | OF | SCHOOL. | 1892-1902 |

|   | 1892-3 | I 893-4 | 1894-5 | 1895-6 | 1896-7 | 1897-8 | 1898-9 | 1899-00 | 1-0061 | 1901-2 |
|---|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|
| Number of Students<br>College Graduates, in-<br>cluding College Se- |        | 270     | 288    | 323    | 357    | 367    | 349    | 380     | 423    | 440    |
|   | 107    | 114     | 125    | 169    | 212    | 230    | 217    | 236     | 267    | 274    |
| uates   | 40.26  | 42.22   | 43.40  | 52.32  | 59.38  | 62.67  | 62.18  | 62.10   | 63.12  | 62.27  |

#### TABLE B

GEOGRAPHICAL DISTRIBUTION OF STUDENTS, 1892-1902

| UNITED STATES |
|---------------|
|---------------|

|   |         | 1893-<br>1894 |                |               |          | 1897-<br>1898 |                |            | 1900-<br>1901    | *<br>1901–<br>1902 |
|---|---------|---------------|----------------|---------------|----------|---------------|----------------|------------|------------------|--------------------|
| Northern Atlantic<br>Division:<br>Maine | 220     | 212           | 222            | 263           | 280      | 286           | 278            | 295        | 313              | 327                |
| New Hampshire<br>Vermont                |         | 3             | I<br>2         | · · · · · · 2 |          |               |                |            | I<br>            | Ĩ                  |
| Massachusetts<br>Rhode Island           | 6<br>   | 3             | 5<br>1         | 6<br>1        | 8        | 9<br>3        | 9<br>I         |            | 8<br>1           | 12<br>2            |
| Connecticut<br>New York                 | 180     | <br>179<br>21 | 3<br>181<br>22 | 218           | 6<br>213 | 4<br>225      | 6<br>229<br>21 | 248<br>248 | 258<br>23        | 6<br>272<br>18     |
| New Jersey<br>Pennsylvania              | 27<br>5 | 4             | 7              | 22<br>9       | 31<br>14 | 27<br>14      | 10             | 19<br>10   | 14 <sup>23</sup> | 14                 |

\* The discrepancy between these figures and those of the Registrars Report is explained by the fact that students frequently register as from New York City, although for the purposes of this table their residences should be recorded, as has been done, elsewhere.

TABLE B-Continued

|   |               |               |               |               |                                       |               | 1              | 1             | 1             | 1              |
|---|---------------|---------------|---------------|---------------|---------------------------------------|---------------|----------------|---------------|---------------|----------------|
|   | 1892-<br>1893 | 1893-<br>1894 | 1894-<br>1895 | 1895-<br>1896 | 1896-<br>1897                         | 1807-<br>1898 | 1898-<br>1899  | 1899-<br>1900 | 1900-<br>1901 | 1901-<br>1902  |
| South Atlantic Division :<br>Maryland       | 6             | 5             | 4             | 4             | 9                                     | 9             | 10             | 16<br>3       | 18            | 2 I<br>2       |
| District of Colum-<br>bia                   |               |               |               |               |                                       |               | I              | I             | 3             | 3              |
| Virginia<br>West Virginia                   |               |               |               |               | 2                                     | 3             | 2              | 3<br>1<br>1   | 2<br>I<br>2   | 3<br>1<br>1    |
| North Carolina<br>South Carolina<br>Georgia | I<br>I        | I             | I             |               | I<br>I<br>3                           | <br>I<br>4    | I<br>I         |               |               | 2              |
| Florida<br>Delaware                         |               |               |               |               |                                       |               | 2<br>I         | I<br>         |               |                |
| South Central Division:<br>Kentucky         | 4             | 3             | 3             | 8             | 7                                     | 8             | <b>13</b><br>5 | 15<br>7       | 24            | 18<br>6        |
| Tennessee<br>Alabama                        |               | ·····<br>I    | I             | 2             | 3                                     | 2             | 3<br>1         | 3             | 8             | 8              |
| Mississippi<br>Louisiana                    | I             | ••••          | • • • • • •   |               | ••••                                  | •••••         | I<br>I         | I<br>I        | I<br>I<br>I   | I<br>2         |
| Texas<br>Arkansas<br>Oklahoma               |               | I<br>         | I<br>I        | 4             | · · · · · · · · · · · · · · · · · · · | І<br>т        | 2<br>I         | . 2<br>I      | I<br>I<br>I   | I              |
| North Central Division:                     | 18            | 22            | 22            | 35            | 41                                    | 41            | 32             | 39            | 49            | <b>49</b><br>8 |
| Ohio<br>Indiana<br>Illinois                 | 4<br>1        | 7<br>I        | 4<br>3<br>3   | - 8<br>1<br>5 | 12<br>4<br>5                          | 12<br>4<br>0  | 4<br>7<br>6    | 7<br>10<br>8  | 11<br>8<br>11 | 9<br>12        |
| Michigan<br>Wisconsin                       | I<br>5        | 332           | s<br>I        | 5<br>1<br>5   | 5<br>1<br>2                           | 2             | <br>I          | I             | I<br>         | 2              |
| Minnesota<br>Iowa                           | 2<br>2        | 2<br>I        | 1<br>3        | 2<br>3        | 1<br>6                                | 2<br>5        | 5              | I             | 5             | 6              |
| Missouri<br>North Dakota<br>Nebraska        | т<br>т        | I             | 3<br>2        | 5<br>2        | 4<br>2                                | 3<br>1        | 5<br>2<br>1    | 6<br>2<br>2   | 7<br>2<br>3   | 4<br>3<br>4    |
| Kansas                                      | I             | 2             | 2             | 3             | 4                                     | 3             | I              | ĩ             | I             | I              |
| Western Division:<br>Montana                | 7             | 6<br>1        | 10<br>2       | 12<br>2       | 19<br>4                               | 19<br>2       | 15<br>2        | 14<br>1       | 17<br>2<br>1  | 22<br>2        |
| Wyoming<br>Colorado<br>New Mexico           | I             | ••••          |               | I<br>         | 3<br>I                                | 6<br>I        | 1<br>4<br>1    | 1<br>3        | 3             | 4              |
| Utah<br>Nevada                              | I<br>I        | 2             | 2             | I             | 2                                     | I<br>         | I              |               |               | I              |
| Washington<br>Oregon                        | I             | I             |               | I<br>         | 2<br>3                                | 3 2           | I              | I             | 1<br>3        | 3<br>4<br>7    |
| California<br>Idaho                         | 2<br>2        | 2<br>         | 6<br>         | 6<br>1        | 4                                     | 4             | 4<br>          | 7             | 7<br>7        | ĭ              |
|   | 255           | 248           | 261           | 322           | 356                                   | 363           | 348            | 379           | 421           | 437            |

| FORE | CIGN | COUN | TRIES |
|------|------|------|-------|
|------|------|------|-------|

|                  |     |     |     |     |     | 1897-<br>1898 |     |     | 1900-<br>1901 | 1901-<br>1902 |
|------------------|-----|-----|-----|-----|-----|---------------|-----|-----|---------------|---------------|
|                  |     |     |     |     |     |               |     |     |               |               |
| Canada           |     |     |     | т   |     | I             |     |     |               | I             |
| Cuba             |     |     |     |     |     |               |     |     |               |               |
| Hawaiian Islands |     |     |     |     |     |               |     |     |               |               |
| India.           |     |     |     |     |     |               | I   |     |               | I             |
| Porto Rico       |     |     |     |     |     |               |     |     | I             |               |
| Russia           |     |     |     |     | I   | I             |     |     |               |               |
| Scotland         |     |     |     |     |     | I             |     |     |               |               |
| Holland          |     |     |     |     |     |               |     |     |               | I             |
|                  |     |     |     |     |     |               |     |     |               |               |
| Total            | 255 | 248 | 261 | 323 | 357 | 367           | 349 | 380 | 423           | 440           |

# TABLE C

### ACADEMIC DISTRIBUTION OF GRADUATE STUDENTS

|   | - m    | -+      | N I       | 0         | ~            | ~       | 0         | 0       |           | N       |
|---|--------|---------|-----------|-----------|--------------|---------|-----------|---------|-----------|---------|
|   | 892-93 | 1893-94 | 894-95    | 1895-96   | 1896–97      | 1897–98 | 898-99    | 1899-00 | 10-006 I  | 1901–02 |
|   |        | 5       | 1         |           | 1            | 1       |           |         |           | 1       |
|   | õ      | õ       | 6         | 6         | 6            | 6       | 6         | ŏ       | ŏ         | ö       |
|   | 8      | 80      | 8         | 8         | 8            | 8       | 8         | 8       | 6         | 0       |
|   |        | -       |           |           |              |         |           |         |           |         |
|   |        |         |           |           |              |         |           |         |           |         |
| Adelbert College  |        |         |           |           |              |         |           |         |           |         |
| Alleghamy Callege Da  |        |         | • • • •   | I         | I            | I       |           |         | • • • •   |         |
| Allegheny College, Pa   |        |         |           |           | I            | I       | I         | • • • • |           |         |
| Alma College, Mich  |        |         |           |           |              |         |           |         |           | I       |
| Amherst College   | 4      | I       | 2         | 4         | 0            | II      | II        | 7       | 6         | 7       |
| Austin College  |        |         |           |           |              |         |           |         | I         | I       |
| Baldwin University  |        |         |           |           |              |         |           |         | I         | ī       |
| Bates College   |        |         |           |           | ī            | I       |           |         | -         | -       |
| Beloit College  |        | !       |           | -         | -            | -       |           |         |           | • • • • |
| Bethol College  |        | ••••    |           |           |              |         |           | 1       | ••••      |         |
| Detiler Conege  |        |         |           |           |              | • • • • | I         | I       | 2         | I       |
| Black mills College   |        |         | '         |           |              |         |           |         | I         | I       |
| Blackburn University  |        |         |           | I         | I            | I       |           |         |           |         |
| Boston College  |        |         |           |           |              |         |           |         | 2         | r       |
| Bowdoin College   |        |         |           | I         | I            | 2       | I         | II      | т         | Т       |
| Brooklyn Polytech, Inst.  | T      | 1       | 2         | 3         | 4            | 4       | -         | 1 -     | -         | -       |
| Brown University  |        | Ê.      | 1 Ť       | I         | 2            | 2       | 2         | 2       | т         | I       |
| Buchtel College   | 2      | 1       | 1         | I         |              | 2       | 1         | 2       | 1         | -       |
| Buoknell University   |        | 1       | 1         |           |              |         |           | 1       |           |         |
| Conjaine College N. V.  |        |         |           |           | I            | I       | 3         | 2       | I         | I       |
| Camsius College, N. Y   |        |         |           |           |              |         |           | I       | 3         | 3       |
| Almä College, Mich.<br>Amherst College.<br>Austin College.<br>Bates College.<br>Beloit College.<br>Bethel College.<br>Black Hills College.<br>Black Hills College.<br>Black Hills College.<br>Bowdoin College.<br>Brooklyn Polytech. Inst.<br>Brooklyn Polytech. Inst.<br>Brown University.<br>Buchtel College.<br>Bucknell University.<br>Carleton College.<br>Centre College, N. Y.<br>Carleton College.<br>Centre College, Ky.<br>Christian Bros. Coll., St. Louis, Mo.<br>College of the City of New York.<br>College of the City of New York.<br>Collegi of the City of New York.<br>Columbia University. Me.<br>Collegi of the City of New York.<br>Columbia University. N. Y.<br>Cornell College, Ia.<br>Cornell University. N. Y.<br>Crozier Theol. Sem.<br>Curry University. |        |         |           |           |              |         |           | I       | I         | I       |
| Central University, Ky  |        |         |           |           |              |         |           | I       | I         | I       |
| Centre College, Ky  |        |         |           |           |              |         | 2         |         |           |         |
| Christian Bros. Coll., St. Louis, Mo.   |        |         | I         | I         | I            | I       |           |         |           |         |
| Colby University Me   |        |         | -         |           | ī            |         |           | T       | · · · · · | I       |
| College of the City of New York   |        |         |           |           | 26           |         |           |         |           |         |
| Columbia University   | 19     | 24      | 25        | 24        |              | 27      | 31        | 33      | 34        | 34      |
| Columbia University   | 22     | 17      | 24        | 28        | 32           | 27      | 23        | 31      | 39        | 56      |
| Columbian University, wash., D.C.   |        | I       |           |           |              |         |           |         |           |         |
| Cornell College, 1a   |        |         |           | 1         | 2            | 2       | I         |         | 3         |         |
| Cornell University, N. Y  | 2      | 3       | 3         | I         |              |         |           |         |           | 5       |
| Crozier Theol. Sem.   |        |         |           |           |              |         | r         | I       | I         |         |
| Curry University  |        |         |           |           |              | I       | I         | Ī       |           |         |
| Dartmouth College   | 1      |         |           |           |              | -       | 1 -       | 1       | T I       | T       |
| De Pauw University  | 1      | 1       | · · · · · |           |              |         | I         | T       | - I       | -       |
| Detroit Collago   |        |         | 1         |           |              |         | 1 1       | 1       |           |         |
| Dialainaan Callana Da   | I      | I       |           |           |              | 1       |           | 1       |           |         |
| Dickinson College, Pa   |        | 1       |           |           |              |         | 1         | I       | I         | I       |
| Drake University  |        |         |           |           |              | II      |           |         | 1         |         |
| Earlham College, Ind  |        | 1       |           | 1         |              |         |           | I       |           |         |
| Emory College, Va   | II     |         |           | 1         | I            | 2       | I         | I       |           |         |
| Eureka College, Ill.  | 1      |         |           | 1         |              | l 1     | 2         | II      | I         | I       |
| Fargo College   |        | 1       |           | 1         | 1            |         |           |         |           | I       |
| Franklin and Marshall Coll  |        |         | 1         | 1         | · · · ·      | ī       | 1         |         |           | 2       |
| Fremont Normal College  |        | 1       |           |           | l <b>.</b> . | 1 *     | 1         | 1       | 1         | Ĩ       |
| Coorgotown University   |        |         |           |           |              |         | 1         | 1       |           |         |
| Georgetown University   | 2      | 3       | 2         | I         |              |         | 2         | I       | I         | 2       |
| Guinord College, N. C.  |        |         |           |           |              |         | I         | I       | I         |         |
| riamitton College, N. Y   | I      |         |           |           | I            | I       |           |         | 2         | 5       |
| Curry University.<br>Dartmouth College.<br>De Pauw University.<br>Detroit College.<br>Dickinson College, Pa.<br>Drake University.<br>Earlham College, Pa.<br>Earlham College, Ind.<br>Emory College, Va.<br>Eureka College, III.<br>Franco College.<br>Franklin and Marshall Coll.<br>Premont Normal College.<br>Georgetown University.<br>Guilford College, N. C.<br>Hamilton College, N. Y.<br>Hamline University.<br>Hanover College, Pa.<br>Harvard University.<br>Harvard University.<br>Haverford College, Pa.<br>Highland Univ., Kansas.<br>Hobart College, M. Y.<br>Holy Cross College, Mass.<br>Idaho State University.<br>Illinois College.   |        |         |           |           |              |         | I         |         |           |         |
| Hanover College   |        |         |           | I         | 3            | 2       | 2         | 1       |           |         |
| Harvard University  | 17     | 20      | II        | 21        | 25           | 22      | 22        | 18      | 17        | 8       |
| Haverford College, Pa.  |        |         |           |           | I            | I       | I         | 1       | 2         | I       |
| Highland Univ, Kansas   | 1      |         |           | I         | Î            | Î       |           | 1       | Ĩ Ĩ.      | 1 -     |
| Hobart College N V  | ****   |         | 2         | 1 *       | Î            | 3       | 3         |         | т         |         |
| Holy Cross College, Mass  |        | 1       | 2         |           | 1            | 3       | 3         | 3       | 1 T       | 1       |
| Itory Cross Conege, Mass  |        |         |           |           |              |         |           | ····    | 1         |         |
| Idano State University  |        |         |           |           |              |         |           |         | 1         | I       |
| linnois College   |        |         |           | 1         |              |         | I         |         | I         | I       |
| Indiana University  |        |         |           | I         |              |         |           | I       | I         | I       |
| Indiana University.<br>Johns Hopkins University.<br>Kentucky University.<br>Kenyon College, O.<br>Lafayette College, Pa.<br>Lafayette College, Pa.  | I      | I       | I         | I         | 4            | 3       | 2         | 3       | I         | I       |
| Kentucky University   |        |         |           |           |              |         |           |         | I         | τ       |
| Kenvon College, O.  | T      | T       | T         |           | T            | I       | I         | 2       | 2         | 2       |
| Knox College Ill  | 1      | i *     | -         |           | -            | Î       | · · · · · | 3       | 2         | 3       |
| Lafavette College Do  |        |         |           | · · · · · |              | I I     | 1         | 2       | 2         | 2       |
| Laland Stanford In Univ   |        |         | j I       |           | 1            |         | 1         | 2       | 2         | 2       |
| Leiand Stanford, Jr., Univ  |        |         |           | I         | 4            | 6       | 7         | 4       | 5         | 4       |
| Leland Stanford, Jr., Univ<br>Lincoln University  |        |         |           | I         | I            | I       | 1         |         |           |         |
| McMinnville College, Ore  |        |         | 1         |           | I            | I       | I         | 1       |           |         |
| Manhattan College, N. Y   |        |         | 1         | 4         | 4            | 4       | 2         |         |           |         |
| McMinnville College, Ore<br>Manhattan College, N. Y<br>Marietta College, O  | I      | I       | 1         |           | 1            | 1       |           | I       | 2         | I       |
|   |        |         |           |           | 1            |         |           | 1       |           |         |
|   |        |         |           |           |              |         |           |         |           |         |

#### TABLE C-Continued

|  | .03                                   | 1893-04        | 56.       | 805-96     | 26.       | 807-08    | 848-94         | 800-00      | 0          | 1001-02 |
|--|---------------------------------------|----------------|-----------|------------|-----------|-----------|----------------|-------------|------------|---------|
|  | 892-93                                | 3-             | 894-95    | -20        | 896-97    | -20       | 8              |             | 10-00ĥ     | 10      |
|  | 189                                   | 89             | 189       | 8,         | 180       | 180       | ١Ś             | 180         | 5          | 1 no    |
|  |                                       |                |           |            |           |           |                |             |            |         |
| Morece University  |                                       |                |           |            |           |           |                | I           | г          | т       |
| Mercer University  | · · · · · · · · · · · · · · · · · · · | · · · · ·<br>T | · · · · · |            |           |           |                |             |            |         |
| Middlebury College, Vt.  |                                       |                |           |            |           |           |                |             | ĩ          |         |
| Mount Angel College  |                                       |                |           |            |           |           |                |             |            | I       |
| Mount St. Mary's, Md.  | I                                     | • • • •        | •••••     | I          | I         | I         | I              | • • • •     |            | • • • • |
| New Windsor Coll Md  |                                       |                | I         | 1          |           |           |                |             |            |         |
| New York University.   |                                       |                |           | 2          | <br>4     | 6         | 4              |             |            | I       |
| Northwestern University, Ill   |                                       |                |           | I          |           |           |                |             | I          |         |
| Notre Dame University, Ind   |                                       | I              |           |            |           |           | I              | I           | I          |         |
| Obio State University  | I                                     | • • • •        |           | I          | • • • •   | I         | 3              | 4           | 4          | 2       |
| Ohio Weslevan University   | т                                     |                |           |            |           |           |                |             |            |         |
| Olivet College   | I                                     | I              |           |            |           |           |                |             |            |         |
| Parsons College, Iowa  |                                       |                |           |            |           | I         |                |             |            |         |
| Pennsylvania Military College  |                                       |                |           |            |           | I         |                | •••••       | I          | 1       |
| Porto Rico Institute Civil   |                                       |                |           |            |           |           |                | T           | 2<br>T     |         |
| Princeton University   | 2                                     | I              | т         | I          | 5         | 8         | 5              | 5           | 5          | 9       |
| Richmond College, Va   |                                       |                |           |            |           |           |                | I           | I          | 2       |
| Ripon College  |                                       |                |           |            | !         | I         | I              |             |            | 1.1.1   |
| Roanoke College, Va  |                                       |                |           |            |           | 2         | I              | I           |            | T       |
| St. Francis Xavier College, N. Y   | 1                                     | 5              | 5         |            | 2         | 6         | 8              | 0           | 3          | 10      |
| St. John's College, Md   | 2                                     | I              | 2         | I          | ī         | I         | ī              | I           | I          | 2       |
| St. John's College, Mhtn., N. Y  | I                                     | I              | 2         | 3          | • I       | I         |                |             |            |         |
| St. Vincent's College  |                                       |                |           |            |           |           |                |             |            | I       |
| Seton Hall College, V I  | • • • •                               | · · · · ·      | · · · · · |            |           | · · · · · | · · · · ·      | I           | 2          | 2       |
| South Carolina College   |                                       | 1              |           | 1          |           | 1 1 .     | 1              |             |            | I       |
| South Kansas College   |                                       |                |           |            | I         |           |                |             |            |         |
| Spring Hill College.   |                                       | I              | I         | I          |           |           |                |             |            |         |
| Swarthmore College, Pa   |                                       |                |           |            | I         | I         | I              |             |            | • • •   |
| Trinity College Conn   |                                       | · · · · ·      |           |            |           | I         | 1              |             |            |         |
| Tufts College, Mass  |                                       |                |           |            |           |           |                |             | ī          | I       |
| Union University, N. Y   |                                       | I              |           |            |           |           |                | I           | I          | I       |
| United States Military Academy.  |                                       |                |           |            |           |           | · · · ·        |             |            | I       |
| United States Naval Academy  |                                       |                |           |            |           | I         | I              |             |            |         |
| University of Chicago  |                                       |                |           | <b>.</b> . | Ĩ         | I I       |                | 1           | Ĩ          | I       |
| University of Cincinnati   |                                       | I              |           |            | I         | τ         |                |             |            |         |
| University of Colorado   |                                       |                |           |            |           |           | I              | I           | I          | I       |
| University of Georgia  |                                       |                |           |            | I         | I         |                | 2           |            | 4       |
| University of Kansas   |                                       |                | T         | 2          | · · · · · | 2         | 1 <sup>2</sup> | · · · · ·   |            | 1       |
| University of Louisville   |                                       |                | 1         |            |           | I         |                |             | I          | I       |
| University of Michigan   |                                       |                |           |            | 3         | 3         | 2              | 3           | 2          |         |
| University of Minnesota  |                                       |                |           |            | I         | I         | I              |             | 1          |         |
| University of Missouri   |                                       |                | · · · · · |            | T         | 1         | L T            | 2           | 2          | 2       |
| University of North Carolina   | I                                     | I              |           |            | 1         |           |                |             | ]          |         |
| University of North Dakota   | 1                                     |                |           |            |           | I         | I              | I           |            |         |
| University of Oklahoma   |                                       |                |           |            |           |           |                |             | I          |         |
| University of Pennsylvania   | I                                     | I              |           |            |           |           |                | I<br>I<br>3 | 2          | 2       |
| University of Rochester.   | I                                     |                | I I       | I I        | 2         | 2         | 2              | 3           | I<br>4     | 3       |
| University of Oktanoma.<br>University of Pennsylvania.<br>University of Pennsylvania.<br>University of Rochester.<br>University of South Carolina.<br>University of the South, Tenn<br>University of Washington.<br>University of Washington.<br>University of Washington.<br>University of Washington.<br>Vanderbilt University |                                       |                | I         | I          |           |           |                |             | 1          | 1       |
| University of the South, Tenn  | I                                     |                | I         | I          | I         | I         |                |             | 2          | 2       |
| University of Virginia   |                                       |                |           |            |           |           | I              | 2           | I          | I       |
| University of Wisconsin  | · · · · ·                             |                |           | 2          | · · · · · | · · · · · |                |             |            |         |
| Vanderbilt University  |                                       |                |           |            |           |           |                | 2           | 2          | 3       |
| Villanova College, Pa  |                                       |                |           |            |           |           |                |             | 2<br>I<br> | I       |
| Virginia Military Institute  |                                       |                |           |            |           |           |                | I<br>2      |            |         |
| Wabash College, Ind<br>Wake Forest College, N. C   |                                       |                |           |            | I         |           | I              | 2           | 2          | I       |
| Wake Polest College, N. C  |                                       |                |           | ····       |           |           | l              | l           |            |         |
|  |                                       |                |           | _          |           |           |                |             |            |         |

| TABLE | -Continued |
|-------|------------|
|-------|------------|

|  | 1892-93        | 1893-94                               | 1894-95                               | 1895-96    | 1896-97                  | 1897-98                       | 1898-99                               | 1899-00                   | 10-0061                          | 1901-02                                 |
|--|----------------|---------------------------------------|---------------------------------------|------------|--------------------------|-------------------------------|---------------------------------------|---------------------------|----------------------------------|---|
| Washburn College<br>Washington and Jefferson Coll., Pa<br>Washington and Lee Univ., Pa<br>Washington Univ., St. Louis, Mo<br>Western University, Conn<br>Western Reserve Univ., Ohio<br>Westminster College<br>Williams College, Mass<br>William Jewell Coll., Mo<br>Wooster University, Ohio<br>Yale University | <br><br>I<br>3 | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | ••••       | <br>I<br>I               | I<br><br>II<br><br>26         | ····<br>I<br>····<br>II<br>····<br>28 | <br>I<br><br>16<br><br>27 | I<br>I<br>I<br>I<br>I<br>I<br>40 | I<br>I<br><br>I<br><br>7<br><br>I<br>32 |
| Total  |                | 113                                   | · · · ·                               | 167        | <u> </u>                 | 224                           | 215                                   | 234                       | 264                              | 271                                     |
| Edinburgh University.<br>Gymnasium, Frankfa-M.<br>McGill University, Canada.<br>Ottawa University, Canada.<br>St. Mary's College, Montreal.<br>University of Gopenhagen.<br>University of Havana.<br>University of Mavana.<br>University of Oxford.<br>University of Toronto.<br>Total.                          |                | <br><br>I<br>I                        | · · · · · · · · · · · · · · · · · · · | I<br>I<br> | I<br>I<br><br>I<br><br>3 | I<br>2<br><br>I<br>1<br><br>6 | I<br><br>I<br>2<br>215                | 2                         | <br>I<br><br>I<br><br>3<br>264   | <br>I<br>I<br>I<br><br>3<br>271         |
| Grand Total  | 107            | 114                                   | 125                                   | 169        | 212                      | 230                           | 217                                   | 236                       | 267                              | 274                                     |

The near approach of the time when the Law School is to go upon a graduate basis renders it fitting and desirable to notice some of the lessons which these statistics teach.

Table A shows that while the total membership of the School of Law has, in the ten years under consideration, increased from 255 to 440, or  $72\frac{1}{2}$ %, the increase in the number of college graduates in the same time represents just double that ratio, being 145% (from 112 to 274); whereas the number of non-graduates has remained nearly stationary, having increased by only 22 (143 to 165), or 15%.

These are striking facts, and seem to indicate that a school which sets and maintains the highest and most exacting standards makes a constantly increasing appeal to the besttrained minds, while at the same time it tends to repel those whose conception of a legal education is limited to a speedy preparation for the bar.

Concurrently with this remarkable increase in the number

and ratio of college graduates, there has been—as Table B will show—an equally remarkable increase in the number and proportion of students coming to the School from a distance. While in ten years the membership of the School has grown  $72\frac{1}{2}$ %, the delegation from the New England States—though still much too small—has in that time increased  $187\frac{1}{2}$ %, that from the West 184 %, and that from the South 290 %; whereas the representation of New York State and of the old Middle States has not kept pace with the growth of the School, the former being only  $56\frac{2}{3}$ %, and the latter 48 % larger than in 1892-3.

These are obviously important facts, but they require the light of further statistics to bring out their full significance. Table C shows that the 112 graduates of 1892-3 came from 33 colleges, while the 275 graduates of the current year represent 84 higher institutions of learning. In other words, the large increase in the number of college graduates is not due to the older and larger institutions, but is derived mainly from a multitude of colleges in all parts of the country, at least 18 of which are Southern and 30 are Western institutions of learning.

The coincidence of this fact with the fact previously adverted to-of the large increase in the proportional representation of other sections of the country-leads to the conclusion, which is, indeed, borne out by the records of the School, that it is from those sections that we derive a constantly increasing proportion of our graduate students. Thus it appears that, while only 621 % of our students are graduates, of those registered from the South 83 % are graduates, and of those that come from the West 87 % answer that description. Further, of the 440 students in the School, 243, or 55 %, are residents of New York City and its immediate neighborhood, while 197, or 45 %, come from a distance. Yet of this New York representation, 137, or 56 %, are nongraduates, while of the 197 drawn from a distance, 139, or 71 %, are graduates, and only 58, or 29 %, are non-graduates. Thus, while the metropolitan students constitute 55 % of the total membership of the School, they contribute only 381 % of the graduate membership, the 45 % of outside students contributing nearly 62 % of that total.

It is a fact of some importance in this connection that of the twenty-one applications for Faculty Scholarships (limited to college graduates) received this year, eight came from Southern States and five from the West, only eight being referable to the Eastern and Middle States, while of the four awards made, three went to the South, proper, and one to the Southwest.

These facts show very clearly that, strictly speaking, the strength of the Law School is not correctly represented by the geographical distribution of its students, and that its real centre of gravity is not the city in which it is situated, but is to be found in an expanding area to the south and westward. The result of this process has been to widen enormously the range of the School's influence and to transform it from a local into a national seat of legal learning. In making its appeal primarily to the educated man it has found an ever-widening constituency, and it can hardly be doubted that the force and effectiveness of this appeal will be still more widely felt when it becomes direct and exclusive. The experience here portrayed is a plain revelation of the motives which lead the trained and educated student to the choice of a professional school. There has been nothing in the Columbia Law School of the past decade to tempt the spirit of caste or exclusiveness. The inducements which it has held out are those which always prove most attractive to the best mindsa high ideal of labor and service, high standards of excellence, and the severest discipline. As these qualities of the School will be heightened and emphasized by the impending change in the standards of admission, its influence upon the best class of students all over the country should be correspondingly increased and strengthened.

In dwelling, as I have above, on the proportion and range of academic representation in our student body, I have, I think, made it clear that, while I believe that our present policy will bring us a steadily increasing membership, I regard the quality of that membership as of far greater importance than its size. The real test of the strength of an institution of learning is its power to attract the best minds, and the measure of its success is not the number but the quality of the men whom it draws within the range of its influence. It is as a guaranty and insurance of the quality of our student body as a whole that our requirement of an academic degree has its real significance.

Whatever opinion may be entertained of the value and importance of college training to an intending professional student in a given case, it cannot be doubted that the selective and disciplinary process of a college course furnishes to the professional school a better class of students than it derives from any other source. The experience of the Law School bears convincing testimony to the truth of this belief. Of 237 men who, in the last ten years, have attained to what may be termed "honor rank," 223, or over 94 %, have been college graduates, and only 14, less than 6 %, non-graduates; while, on the other hand, in the record of failures the non-graduates surpass the graduates three to one, and in hopeless failures the ratio rises as high as six to one. Certainly from the point of view of the Law School and its highest efficiency, these facts furnish a striking vindication-if vindication be needed-of the wisdom of the University authorities in establishing the new entrance requirements.

But the experience above referred to has another aspect, and the argument which rests upon them has a negative as well as a positive side. While the lack of college training or an equivalent discipline may not unfairly be taken as indicating the absence of those qualities which the work of the professional school demands, it by no means follows that the possession of a college degree is conclusive evidence of fitness for that work. The frequent recurrence of failures, and even of hopeless failures, among the graduates on our rolls has left us with no illusions on that subject. The presumption of fitness raised by the college diploma is too often rebutted by the testimony of experience. It must not be forgotten that we value the college degree not for itself, but for what it represents: that what we demand is not men bearing the label of a social or intellectual caste, but men of disciplined powers: and that it is only in so far as our colleges supply us with such men that they perform the service which we require at their hands and justify the test of fitness for our work which we have set up.

To my mind there is grave question whether we are justified in treating all college graduates as of equal rank; in other words, whether we should admit to the Law School the graduates of all colleges, and whether we should admit all the graduates of any college. The former of these questions we have already answered in the negative by refusing to recognize the diplomas of certain Spanish-American "universities" as evidence of the fitness of their graduates for admission to the School, even on our present standard. The experience of the School seems to show very clearly that some of our domestic colleges and universities should be placed under the same ban. A group of these minor colleges has sent us sixteen of its graduates in the last ten years, only two of whom have passed through the School without a record of failure, and only four of whom have graduated—a showing much worse than that which many a high school and academy has made.

On the other hand, it may be doubted whether, under the "elective system"—perhaps under any system,—there is any but the feeblest presumption that mere "pass men" of any college have the requisite capacity for serious professional work. Of the 80 men whom one of our most distinguished universities has contributed to our rolls in the past ten years, only 48 have persisted and succeeded in reaching the standard required of candidates for a degree, and only 39 have made a distinctly creditable record

The problem is too serious and too far-reaching to be adequately dealt with in the brief space of this report, but it seems clear that the professional schools which aim to do the best work cannot long rest content with a system of selection which produces such unequal and grotesque results as are recounted above, and that they may yet be compelled to demand some further evidence of fitness for their work than that furnished by an academic degree.

But there is another side to the relation of the professional school to the college. While it is clear that the standard of the college degree admits too many men who have not been brought up to the requirements for professional work of a high

order, it seems equally clear that-under existing conditions for acquiring that degree—it excludes too many men who are, or who might easily become, abundantly fitted for that work. A four years' college course, superimposed upon the years of special preparation therefor, and followed by a three or four years' professional course, is a prospect calculated to deter any but the stoutest or the most indifferent spirit. The average age of the graduate student on entering the Columbia Law School is between 221 and 23 years. More than one-half the college delegation has passed 221, and over a third has passed 23 years. These men will be 25, 26 and upwards when, with the diploma of the University in their hands, they enter upon their apprenticeship in some law office. Is it a matter for wonder that many of the most earnest students drop out of the law school at the end of one or two years, that many more deliberately select an inferior school which offers them a shorter road to the bar, and that multitudes forego entirely the advantages of a college education in order that they may, without being deprived of a professional training, reach the threshold of their life's work at an earlier age?

There was a time in the history of education in America-to go no farther afield—when the average man could enjoy a good college training and the best available professional training as well, but the persistent raising of the requirements for admission on the part of our colleges, and the great development of professional education in the last twenty years, have tended to make it more and more difficult to compass them both. The result is that, under our present system, the great majority of men dedicated to a professional career are forced to choose between the college education and an adequate professional training. How most men decide this question the multitudes of untrained minds who fill our law and medical schools and crowd the ranks of the professions have made only too plain. Nor can any one rightly censure the man who seeks to ensure his success in his calling even at the sacrifice of the impulses which prompt him to seek a wider culture. That there is something radically wrong with a system of education which compels a man to choose an inferior or a mutilated professional training in order to gain the coveted advantages of a

college education, or to secure the best available professional training only by sacrificing the education which alone can bring him the full benefits of such training, seems to me to be too plain to require demonstration.

The remedy for this condition of affairs is not—I venture to suggest—to eliminate the college course from the training of the professional student (its importance for that purpose has been abundantly demonstrated), but to adapt this course to his needs by bringing it within a reasonable compass and by shaping its work and its standards so as to answer those needs.

It is true, the work of the professional school is serious work, calling for maturity of mind and seriousness of purpose, as well as for trained powers of observation and reasoning. Our non-graduate students—half of them under twenty, a third of them under nineteen—are much too young and immature. But the best of our colleges, with their present entrance requirements and splendid facilities for the training of youth, would have no difficulty in bringing the average student to the requisite standard of maturity of mind and purpose at the age of twenty-one, or the exceptional student at the age of twenty years. Indeed, I have no doubt that in very many cases they do this now, and that for most earnest students the real and essential purpose of a college education has been attained by the close of his junior year.

Perhaps it may not be out of place to indicate here what, from the point of view of a teacher of law, this purpose is. In the first place, the law school does not look with favor on the modern tendency to specialization in our colleges, to which the junior and senior years are so largely devoted. This, whether it deal with the humanities, or the natural or social sciences, is, in its methods and aims, as purely professional work as that of the law school itself, and plays no proper part in the training of the student for professional study in other lines. In the second place, the law school views with suspicion the extreme applications of the elective principle, under which the student may yield to the temptation to scatter his energies among a multitude of unrelated topics, or skilfully avoid the difficult subjects of the curriculum. There is no place for the dilettante or the shirk in the professional school.

What the law school asks of the college is that it shall communicate to the student the humane and generous spirit of the true university; that it shall impart the scientific temper and independent spirit of research and criticism which are the essence of its being; that it shall inculcate a competent knowledge of the world and of man; and, finally, that it shall afford a thorough linguistic training. That, with most students, these results can, to a reasonable and adequate degree, be achieved —in fact, *are* thus achieved—in less than the orthodox period of four years, is conceded in the practice of several of our leading universities, though not openly avowed. And if, as President Eliot declares, the average student can "easily" accomplish the task in three years, it seems not unreasonable to suggest that there may be some who can reach the goal in less than three.

Here there is doubtless much room for difference of opinion, but upon this conclusion there should be no difference of opinion—that the bachelor's degree should represent achievement rather than time; that it should be the prize of a definite, co-ordinated body of work in the liberal arts and sciences, free from any specialization or professional study, and that, whether it take four years, or three years, or two, to earn it, it should be awarded when earned. Such a system would do much to reconcile the conflicting claims of liberal and professional study, and would, it appears to me, provide a means for bringing them into complete harmony.

If, in these comments on the scope and purposes of a college education, I seem to have gone beyond my province, I can only plead, as my excuse, the predicament of the law school and of legal education—compelled to choose between the claims of a public service, which rightly calls for the widest possible opportunities for all, and the demands of an academic training which carries the student beyond the threshold of the professional school. I am in complete accord with those who believe that there could not be a greater mistake than to make the best legal education the exclusive possession of a fortunate few. The best opportunities for professional training should be brought within the reach of all who are fitted, by character and ability, to make good use of them. But I also believe that to offer these opportunities to untrained and immature minds is to squander and prostitute them. For its own protection, as well as in the interests of the professions and of the state, the university is bound to exact of those who participate in its work an adequate preparation therefor. What this may mean in a given case is proper matter for inquiry and discussion. There is manifestly considerable range in the necessities and demands of widely-differing professions. The technical studies of the engineer may well call for a different preparation from that which the so-called learned professions demand. But, for the law student, it seems clear that this service must be performed by the college, and that it should represent the substantial and disciplinary work of the present college course. That this result should be accomplished in less time than is now devoted to it, seems to me to be equally clear.

As bearing upon the appeal which the Law School makes to the college world outside, I would respectfully call your attention to the important service rendered by the Faculty Scholarships, and to renew the recommendation made by my predecessor, Professor Keener, in his reports for 1900 and 1901, for an increase in their number. Going hand in hand with the reputation of the Law School for loftiness of aim and seriousness of purpose, these scholarships create a marked impression of the beneficence and greatness of the University, and emphasize its ideal of high service, which is so attractive to the student body to which we make our appeal. I have referred above to the large number of applications for the scholarships received this year, especially from the West and South. Probably not more than two or three of the applicants will be able to come to Columbia without such assistance. Certainly eighteen of the twenty-one applications are cases of great merit, and represent, in most instances, years of devotion to the ideal for which this University stands. The letters which accompany the applications show that in many Southern and Western colleges the award of one of the scholarships to a

brilliant and deserving graduate is the highest distinction that can come to him, and is regarded as a tribute of honor to the institution and the community to which it ministers. Considered from the most selfish point of view, I cannot conceive of a more profitable investment for the University than a multiplication of this form of benevolence. I would, therefore, respectfully urge that the number of Faculty Scholarships in the School of Law be increased to ten.

In conclusion, I beg to call your attention to the pressing need of the Law School for a separate building, appropriate to its purposes. Not only is its present situation in the Library incongruous with the real purpose of that building, and, as the School grows in numbers and activity, an increasing source of inconvenience and annoyance to those who have occasion to use the general library, but the School has long outgrown the accommodations which its present situation affords, and is carrying on its work with increasing difficulty. That a separate and handsome building would add greatly to the dignity and consequent attractiveness of the School, may be taken for granted.

I would respectfully suggest that the site at the corner of 116th Street and Amsterdam Avenue, now occupied by College Hall, be formally set apart for this purpose, and that plans may be prepared and the co-operation of the graduates and friends of the School invited.

Respectfully submitted,

GEORGE W. KIRCHWEY,

Dean.

# SCHOOL OF MEDICINE

#### REPORT OF THE DEAN

#### FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

To the President of Columbia University in the City of New York,

SIR:

I have the honor to submit the following report of the College of Physicians and Surgeons for the year 1901-1902.

In the Department of Medicine several changes of importance have been made. The number of didactic lectures has been diminished to one each week, the place of the remaining lectures being taken in part by recitations by the third-year class twice a week throughout the entire year, held by tutors appointed for this purpose,—in part by a course of bedside clinics in Roosevelt and Presbyterian Hospitals, given by Dr. James three times a week, two hours each, to sections of the class. The purpose of these is specially to give instruction in the natural history of acute disease.

There have been two medical clinics each week at the Vanderbilt Clinic instead of one as formerly, one being given by Professor Delafield, the other by Dr. James.

Professor Kinnicutt's bedside instruction to sections at the Presbyterian Hospital has been given twice a week instead of once a week as formerly, and has been very largely attended during the year.

There has been added to this portion of the curriculum also a course of practical instruction with demonstrations in the infectious diseases given by Dr. Berg at the Willard Parker and Riverside Hospitals. The importance of this branch of medical education makes it especially desirable that the extensive material in the public hospitals of the city should be used for the purposes of clinical instruction in infectious diseases.

It having been thought best to begin the medical cur-

riculum in the second year, a course of recitations once a week to sections has been given to the second-year class upon selected topics in medicine by tutors especially appointed for this purpose.

The facilities of the Department of Pathology have been severely strained during the past year in the instruction of the large number of undergraduate students in Pathology, Bacteriology and Hygiene, and Normal Histology. It was found necessary, in order to meet the requirements of the first-year students in Normal Histology, to ask from the Trustees the appointment of two special assistants in this theme. This request was granted.

Several important original researches have been carried on in Pathology and Bacteriology by members of the teaching force and outside workers.

The department is greatly in need of financial support from the University in the maintenance of its technical departmental library, which is essential both to the work of instruction and research.

In the matter of research, the Department of Physiology has shown its usual activity. Professor Curtis has continued his historical studies of the physiology of ancient times. Professor Lee has extended his investigation with Dr. William Salant of the action of alcohol on muscular tissue, and among other things has proved that the favorable action of that agent in small quantities, which these authors demonstrated last year, is exerted directly on the protoplasm of muscle and not on the intramuscular nervous tissue. The work is now being prepared for publication.

Mr. Budington has completed his examination of the physiological characteristics of the muscle of the earthworm, and has discovered many facts of interest from the standpoint of comparative physiology. The results have appeared in an article by Mr. Budington in the April number of the American Journal of Physiology. Mr. Budington has recently been making a study of the physiology of the cardiac muscle and the cardiac nerves of the clam.

Dr. R. H. Cunningham has continued his work of several years on the action of strong electric currents, investigating

especially their action on the sciatic nerve. He has also devoted much time to the study of X-rays, the danger of shocks received from X-ray machines, and the recognition and differentiation of internal diseases by means of the stereoscopic radioscope. Professor Robert T. Morris has carried on a series of experiments to determine the value of Cargile membrane in preventing the formation of post-operative peritoneal adhesions, and a series with antiseptic depilatories for the purpose of learning the range of their usefulness, and is now doing interesting work on the transplantation of ovaries with a view to investigate the resemblance of progeny to parent. Drs. Robert Coleman Kemp and A. W. Gardner have continued their investigations, begun a year ago, of resuscitation in impending death from the inhalation of chloroform. They have also made a detailed study, from a medico-legal standpoint of the administration of chloroform in fatal doses and of the postmortem phenomena linked with various methods of treatment.

Dr. Haven Emerson has studied the functional significance of the capsule of the kidney and of the pancreas, the action of adrenalin chloride upon the pancreas, and the effect of artificial respiration upon tetanus artificially produced.

At the various scientific meetings of the year the results of the department's work have been reported upon. Professor Lee, who last summer visited several of the British and Continental laboratories, attended in September the Fifth International Congress of Physiologists in Turin and presented three papers, containing the results of researches in the department's laboratories, one on the action of alcohol on muscle, one on the causes of muscle fatigue, and one on rigor mortis. The same author also reported upon his investigations with alcohol before the annual meeting of the American Physiological Society, held in Chicago in December, and before the New York Academy of Sciences at one of its winter meetings.

At the Marine Biological Laboratory, Wood's Hole, Mass., last summer, the investigator's room of this department was placed at the disposal of the Department of Physiological Chemistry, and was profitably used by Professor Gies in an investigation of the problem whether spermatozoa contain an enzyme which has the power of causing the development of mature ova. The work in the Department of Physiological Chemistry has proceeded along the usual lines, with a somewhat noticeable increase, however, in the number of research workers. Applications for places in the laboratory next year will evidently tax the facilities of the department to the utmost.

Dr. William J. Gies, Instructor in the Department ever since its organization, has this year been advanced to the position of Adjunct Professor of Physiological Chemistry. He has likewise received the appointment of Consulting Chemist to the New York Botanical Garden.

Dr. Alfred N. Richards has been advanced to the position of Tutor in Physiological Chemistry, after several years of successful work as Assistant. Dr. Richards has during the past year done considerable work as a research scholar in the Rockefeller Institute for Medical Research.

During the year another room has been made available for the use of the department, especially for experimental work involving the use of animals. The private library owned by Professor Gies, housed in the laboratory, has been increased somewhat in size during the year, and now consists of about one thousand volumes, available to all the workers in the department.

In the Department of Surgery, in addition to the usual curriculum, there has been added during the past year to the third-year students' tuition a series of short papers by a selected student on subjects not touched on at length in the regular course of instruction and based upon living cases coming under his notice in an immediately preceding clinic. This paper, which is of only eight minutes' length, is read to the assembled class at the next College clinic and discussed by the Professor and the class at large for ten to fifteen minutes. This exercise in the nature of a conference has met with much attention from the class and has developed much zeal.

A further variation of tuition was instituted late in the course which will be continued during the coming term. It is to have three or four of the fourth-year class (of the section then taking hospital instruction at the Roosevelt Hospital) to be notified twenty-four hours prior to the Saturday clinic of Professor Weir, concerning the one or two cases that may require operation the next day. They are, before the assembled class, to state what operation should be done in this given case, why and how it should be performed. These students are attired in aseptic gowns, allowed in the operation arena, and even permitted to assist the staff when possible. As an adjunct to the usual method of teaching, arrangements are being undertaken to have a number of joint hospital clinics: *i. e.*, clinics in which the attending physician should delineate the medical aspect of the given case which has brought into it a surgical necessity, and then to be followed by the surgeon by his remarks and acts.

The authorities of the Vanderbilt Clinic have accepted the offer of Professors Weir and Bull to place at the command of its Surgical Division a well equipped X-ray apparatus to the care of which a specially qualified assistant has been assigned, and from whom special instruction to the students may be expected. The need of better conditions for the teaching of Operative Surgery grows more and more apparent, and it is coming more and more to the front that a more thorough instruction in surgical anatomy should be given, and given, too, by a surgeon, who alone is competent for such work.

The need of autopsy instruction from a surgical standpoint is also a pressing one, and it is hoped that measures for the improvement of the curriculum in the foregoing respects may be speedily accomplished.

The year has been marked by the retirement from the Faculty of Professor Abraham Jacobi and Professor Herman Knapp, who have for so many years filled their chairs with signal ability and added much to the reputation of the school.

For the first time in the history of the College, six students desirous of entering the first-year class were refused admission because of our inability to furnish the necessary accommodation for them in the laboratories.

In the hope of diminishing the size of the entering class, the Committee on the Curriculum, composed of members of the Faculty, have recommended that hereafter no conditioned student shall be admitted to the first-year class. It is believed that this regulation will prevent in the future the overcrowding of our School, and enable the instructors to devote more time to each student.

Our graduating class numbered 145. Of this number 101 secured positions in hospitals in this and other cities. When it is considered that these positions are no longer to be obtained through influence—but are awarded only after a rigid competitive examination open to graduates of any medical school in the country, it gives evidence of the superior training of our students, that so large a percentage of these places has been filled by the graduates of this College.

The managers of the Vanderbilt Clinic will erect during the coming summer a small laboratory upon the College grounds for the use of the Professor of Medicine in connection with his clinical teaching. This laboratory is to be a purely clinical one, where the student can examine sputa, urine, blood, or the contents of the stomach, and thus form the habit of precision in diagnosis and treatment. In the Clinic he can see the patient, examine him, and then bring to this laboratory the clinical products, examine them himself, and apply the tests which will determine the diagnosis of the disease. The managers believe this laboratory will prove of great advantage to our advanced students, and the effort to connect knowledge acquired there with the practical work, to be a great step forward.

The attendance of patients at the Clinic during the year has been very large, and the amount of material for teaching purposes most ample.

At the Sloane Maternity Hospital instruction has been given to all our fourth-year students, in midwifery, and also to quite a number of graduates. The demand from the latter is constantly increasing, and courses lasting through the entire summer could be easily maintained. During the year several donations have been made by Mr. Wm. D. Sloane for the purpose of improving the ventilation of the Hospital, and increasing the efficiency of the sterilizing plant.

Every department of the School is now working in a satisfactory manner.

> Respectfully, James W. McLane, M.D.,

Dean.

# SCHOOL OF MINES SCHOOL OF CHEMISTRY SCHOOL OF ENGINEERING SCHOOL OF ARCHITECTURE

# REPORT OF THE DEAN

# FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

# To the President of Columbia University in the City of New York,

Sir:

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I have the honor to present a report of the thirty-eighth annual session, just closed, of the Schools under the Faculty of Applied Science.

For the statistics concerning numbers in attendance in the various classes, and the summary of enrollments, I would refer you to the report of the Registrar, in which this information is summarized in tabular form. It will be apparent from a study of these tables that the growth of the various schools in numbers has been most gratifying as an evidence of the growing reputation of the courses not only in the neighborhood of the University but in the country at large. An increasing tendency has manifested itself for students to take their early years of study and preparation in an institution near their homes, and to come to Columbia and New York City to complete their courses and professional preparation and to obtain the degree of Columbia. This is particularly manifest in Mining, and is a tendency which is considered to be one which should be distinctly fostered. The consequence, as far as registration and the formality of enrollment are concerned, is that a greater proportion of students in Applied Science appear to have conditions standing against them during their early years at Columbia than prevails in other departments. The explanation of course is that students coming to Columbia for advanced standing in the great majority of their subjects are apt to have a few of the Columbia requirements in the early years stand as subjects for which they had not had a previous training before coming here. These conditions, therefore, are technical rather than actual so far as the competence of these students is concerned for taking up the work in advanced years.

The effect, however, of this tendency is to crowd and congest the buildings devoted to the work of the students in Applied Science to an extent which is at least uncomfortable, and in some cases constitutes an invasion of convenience in instruction. The number of students which can be taken care of over a given floor area of drawing tables or laboratory desks is definitely limited, and in certain departments this limit has been practically reached this year. The drawingrooms on the top floor of Engineering must provide for all students in Engineering and in Chemistry. The laboratories in Havemeyer must provide for all students in Engineering, while giving special facilities and privileges to the students in Chemistry in their later years. These same laboratories also must provide for the instruction in General Chemistry open to students of the College and the Schools of Pure Science as electives. The laboratories devoted to Engineering-Electrical, Mechanical, Civil, and Mining-can only be properly used by the system of dividing the classes into squads of a limited size, and it is apparent that the limit to this process of subdivision is set by the number of afternoons available per The week and the amount of equipment in each laboratory. same limitation holds for work in the shop departments of the Mechanical courses, and is perhaps at its worst where the units of equipment are larger, as in the laboratories of Mining and Mechanical Engineering, or costly as in the case of the laboratory of Mineralogy. It must also be recognized that the increasing number of students produces a distinct effect in increasing the number required on the teaching staff both in the class-room and in the laboratories. It is impossible to do good work with sections in the class-rooms so large that in the natural course of events the opportunity to recite before the class can only come at infrequent intervals. In the laboratory and drawing-room where beginners are taught, it will be apparent that the ignorant and inexperienced student will need the attention of the instructor even more frequently than when he has had some experience in working by himself. To ask the instructors to handle large sections of beginners is to compel the individual student to delay for lack of definite instruction; which must be a distinct loss both in time and in efficiency, and must entail a great strain upon the teaching staff.

In order to meet this difficulty in part for the present and without recourse to the obvious solution presented by increased buildings, the Faculty has directed its Committee on Admissions to enforce more rigidly the standard of scholarship imposed by the published entrance requirements. While this course will reduce the numbers expected in the autumn of 1902, it will also doubtless result in an increase of the candidacy in the autumn of 1903; the students turned back for further preparation next fall will come up with such improved preparation the following year that the University will have to accept them, and the difficulties will repeat themselves thereafter. It also should not be lost sight of, in my opinion, that the experience in some other institutions, which has resulted from an attempt to reduce numbers by this process, has not worked satisfactorily for any length of time. The tendency of human nature to get what it wants for payment of the least price therefor, is likely to outweigh the influence of an alleged increased value of the thing obtained; and while other institutions offer essentially the same courses as Columbia offers, it will not follow that necessarily the applicants for admission to Columbia will be only the very best men from the preparatory schools. It should not be made too difficult for good men to come to Columbia by the interpretation which is put upon the statement of our entrance requirements. The day cannot be far distant when the problem of increased accommodation for the students in Applied Science will have to be faced by the Trustees.

It should not be overlooked, furthermore, that the tendency of an increased requirement for admission, either in name or in effect, is to impose upon the preparatory schools a pressure which is apt to result in forcing them to become schools of preparation for the entrance examinations rather than schools for the education of boys. The Dean is not prepared at present to make any definite recommendations publicly as to the introduction of a system for the admission of students by a certificate provision; but it is his belief that before long it will be desirable for the University to give careful consideration to this question in view of the difficulties which are entailed when boys are superficially educated to pass examinations and not well educated in the groundwork upon which successful passage of such examinations should really rest with respect to sound scholarship and a reliable preparation, which can be depended upon for use in later study and in the requirements of life.

The two most noteworthy matters in the history of the Faculty of Applied Science during the current year have been an exhaustive report by a Committee of Heads of Departments, which has embodied an effort to equalize the requirements in the various courses with each other, and also to equalize the demands on the students' time in the four years of the present course; and the decision to set forth the School of Architecture as a department of a School of Fine Arts.

The recommendations of the Heads of Departments, embodied in a full report, will go into effect in the various courses as it shall be practicable to carry them out, beginning with October, 1902. The tendency has been to move preparatory courses into the first two years and to leave the second half of the second year and the last two years for the more distinctly professional work of the courses. It has been particularly sought with respect to the last or fourth year to leave its time more free for the Thesis and special work appropriate for such final year, in which a man receives his professional degree. It has been sought, by inquiry among the graduates and best undergraduate students, to ascertain how much time for preparation at home was required for a satisfactory standard of scholarship, and to equalize their assignments in class and in laboratory at the University and such preparation hours outside. It is manifestly inappropriate when the time of the student is invaded by the demands of one department so that the requirements of another equally important in the broad view are forced into a secondary place by the definite limitations of the numbers of hours per day available for study at the time. The Faculty also felt that it was not right that no time during the hours of daylight should be left available for physical exercise and the relief of the tension in the class-The operation of these changes will be watched with room. great interest during the next two years, which will be required to carry most of them into effect. The Faculty has also experienced this year for the first time a practical operation of the admission of students under the requirements of the College Entrance Examination Board established by the Association of the Colleges and Preparatory Schools of the Middle States and Maryland. It was plainly a necessity that the examinations in June, conducted by this Board, and the examinations in September, conducted by the representatives of the University itself, should be made essentially to agree both in statement and in interpretation. Steps have been taken to bring about this agreement and to give more significance and unity to the work of the Committee on Admissions of the Faculty. Professor William Hallock has been made Chairman of the Committee on Admissions for the coming year.

By action of the Trustees at their May meeting the School of Architecture was set off from the Schools under the Faculty of Applied Science, and was made a part of a School to be organized in the future and to be known as the School of Fine Arts of Columbia University. This step is the logical outgrowth of the policy repeatedly expressed in past legislation by the Faculty, by which the essentially artistic element in the profession of the architect has been recognized, in response to the urgent representations of the officers of the School of Architecture. These have for several years contended that the minimum of engineering required by the general practitioner could be covered in the first three years of the course, leaving the fourth year entirely free for artistic discipline in advanced design, drawing, and research, except for the few who might

elect to devote themselves to engineering studies in order to graduate as architectural engineers. Moreover, in the work of the first three years of the course, the Faculty, at the instance of the department, has pursued the policy of diminishing step by step the closeness of the bond between the courses in Architecture and those in Engineering which existed when the department of Architecture was established twenty-one years ago. The mathematical and scientific courses formerly administered in common for the students in engineering, chemistry, metallurgy, and architecture, have one by one been surrendered into the charge of the Department of Architecture, so far as its own students were concerned, to be administered by its own instructors, upon a scheme specially prepared for the requirements of architectural practice; while the time saved by this specialized treatment has been devoted to historical and artistic studies deemed essential to the welltrained architect.

Thus while, for administrative reasons, the department was at the outset placed under the Faculty of Applied Science, its consistent development on the lines described has made it year by year less dependent upon that Faculty, so that the final severance of the connection has come about without shock or embarrassment of any kind. Until such time as the inauguration of a distinct Faculty of Fine Arts shall become practicable, the School of Architecture will remain under the direct administrative control of the President, who will represent it in the University Council. For such courses in engineering as may be required for those students who elect a fourth or fifth year's work in advanced engineering, the School of Engineering stands ready to coöperate with the School of Architecture precisely as was done under the former relations between the two.

In the work of the department of Architecture for the current year the noteworthy features have been the award of the Columbia Fellowship to Mr. Arthur Ware of the Class of 1898, and of the Perkins Fellowship, now first made available, to Mr. Charles S. Kaiser of the Class of 1901.

The work of the department has been conducted this year with the usual efficiency and satisfaction. It has been unfortunate that the ill-health of Professor Ware has prevented his giving his customary personal attention to the work of the department during the spring, but his absence has been as far as possible compensated for by extra assiduity on the part of his associates. The reports of the publications and researches of officers of other departments of the Schools of Applied Science will be presented in full in the University Quarterly in September. Certain of the departments also which are members of the Faculty of Pure Science as well as of Applied Science will make their reports in detail through the Pure Science Faculty.

In the Department of Chemistry 31 different courses were conducted, and a total enrollment is reported of 1119.

In the Department of Mechanics, Professor M. I. Pupin has been absent on leave during the second half-year. His work was carried on partly by the Department of Electrical Engineering and partly by lectures given by C. P. Steinmetz of the General Electric Company. The course in Mechanics has been expanded by giving a half-year of Elementary Mechanics before the year's study of Analytical Mechanics. The larger classes will hereafter be divided into sections in order to secure more effective instruction in these important subjects.

The Department of Mining has this year exhibited great activity and progress in the development of the ore-dressing equipment and ore-testing laboratories. The facilities for studying the methods of mechanical treatment at Columbia are now of the very first order, and the increasing number of students in Mining is doubtless the evidence that this fact is widely recognized. The facilities for hand sampling as preliminary to illustrating and developing the scientific process underlying the large scale treatment here are particularly worthy of imitation. The School has conducted the usual Summer School between the vacation of the third and fourth year by a trip of several weeks' duration to the metal mines of the West, particularly in the Cripple Creek district.

In the Department of Mechanical Engineering a noteworthy increase in its efficiency has been caused by the constituting of two officers of the title of Tutor for the conduct of the work in the drawing room. This department has to carry

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on the work of instruction in drawing, regarded as a handicraft or art for the students of the first two years and to lay the foundation for the later work of the students when drawing becomes an instrument or tool for the recording of engineering solutions. There has been a class of 275 men to be taken care of in these drawing rooms, and from the nature of the cases the work is continuous all day long without the cessation between intervals of assignment imposed by regular hours. The Department furthermore has to provide for the work in the solution of engineering problems for students for the degree of Mechanical Engineer in their third and fourth years. It has not been found to work well to have these students of advanced engineering problems working in the same room with those who are learning to draw, but under the present conditions there seems to be no satisfactory solution whereby this difficulty can be avoided. The laboratories devoted to problems in heat and motive-power engines have this year reached a higher stage of efficiency by reason of the gradual completion of the necessary work of installation and equipment. The testing laboratory, however, is still quite inadequately equipped, and limits, by this inadequacy, the number of students which can be taken care of by one instructor in one section at a time. The work in the testing laboratory has been conducted for the students in Civil, Mining, and Electrical Engineering by an assistant in the Department of Civil Engineering, while the Mechanical Engineers and Metallurgists were taught by officers of the Department of Mechanical Engineering.

In the shop laboratories in Teachers College the limit of effective use is definitely in sight this year. The number which can be taken care of at one time in one section in any division is twenty-four, and where the number of students in any course has exceeded this limit it has compelled the formation of two sections with the necessary afternoon assignment to each. The policy established some years ago has been again adhered to, whereby the first sufferers from overcrowding should be the students following the Civil Engineering Course, and second the students taking the Electrical Engineering Course, while the facilities of the shops were to be limited for the Mechanical Engineering students only in the very last resort. It has been found this year necessary to curtail the courses for both the Civil and Electrical Engineers by reason of the definite limitations set by room and equipment. The developing of the motive power or heat-engine laboratories has also been effectively and definitely stopped by the limitation of the space available for installation and use. The Department has had to decline to receive gifts which would have been most significant and valuable, simply because there was no space in which to dispose of them or make them available.

The vacation class in Mechanical Engineering consists this year in a visit to the shops of the Bethlehem Iron Company, under the guidance of Professor Hutton and Mr. Sleffel. This trip was made at the break at Easter. A most interesting investigation has been in progress during the year under the hand of Instructor I. H. Woolson, upon the form of test or specification which should be satisfactory in the treatment of woods to render them slow-burning in buildings. This work has attracted wide attention and has brought repute to the University as being the first attempt to put this important practical matter upon a distinctly scientific basis. The Department has been greatly favored by the use of the apparatus of the metallurgical laboratory in conducting experiments upon woods which had been treated to make them incombustible by analyzing their behavior under heat to observe their temperature.

The Department of Astronomy has conducted the usual Summer School in Practical Geodesy at Osterville, Massachusetts, under the direction of Professor Jacoby.

The Department of Mineralogy has been fortunate enough to add about 600 specimens to the student collection of minerals and to increase its equipment of duplicate sets and determinative sets. These additions have come partly from the Egleston Museum, and the work of preparation has been paid for by a gift from Mr. Charles F. Cox. An additional tutorship in Mineralogy has been created to meet the increasing demand on the teaching staff and to render possible a more convenient subdivision of sections by numbers. In the Department of Civil Engineering an increase of staff has been provided so that it has been possible to make the changes in the plans and adjustment referred to above, giving an increased effectiveness and significance in the latter years of the course.

The Summer Course of Surveying under this Department held at Camp Columbia, Morris, Connecticut, has grown to such an extent that the means at the disposal of the Department can only with difficulty give even limited accommodations. The number in attendance at the Summer Session of 1901 was the greatest in the history of the Course, and amounted during July and August to 119. This large attendance necessitated the entire reorganizing of the administration of the Course, which will go into effect for the Summer Course of 1902, but the increasing numbers foreshadow the possible necessity of relocating the school under circumstances which shall be better adapted to such increased attendance.

In the Department of Electrical Engineering the students of the current year have had the advantage of lectures and class-room instruction from Mr. C. P. Steinmetz of the General Electric Company of Schenectady. A visit to these works under the direction of Adjunct-Professor Sever was made just after the mid-year examinations, and a considerable number of the graduates of the present class will be taken into those works on the completion of their college course. The Electrical Laboratories have been driven to the limit of their capacity and the work of the students in the various courses has been effective and satisfactory. The work of research conducted in connection with these laboratories has been most interesting and has drawn wide attention to the University. The reception to Lord Kelvin, given during the spring, was mainly under the auspices of this Department.

The Department of Metallurgy has received the bronze bust of the late Professor Thomas Egleston, founder of the School of Mines, and has given an honored post to this bust in its laboratory and offices. By the kindness of friends interested in the development of the laboratory idea, a very considerable addition has been made to the equipment of the Metallurgical Laboratory in its furnaces and other subsidiary apparatus. Most interesting research work in this Department has been conducted this year in the lines of the metallography of alloys and the determination of temperature in metallurgical processes at which the reaction of the process takes place. The Department has conducted its Summer Courses in the study of metallurgical and mechanical processes in connection with iron and steel for the Mechanical Engineers at Pittsburgh and at Phœnixville.

Respectfully submitted,

· F. R. HUTTON,

Dean.

# SCHOOL OF POLITICAL SCIENCE

# REPORT OF THE DEAN

#### FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

# To the President of Columbia University in the City of New York,

Sir:

I have the honor to submit the following report of the work of the Faculty of Political Science for the scholastic year 1001-1002. During the year the graduate courses offered by this Faculty were attended by a much larger number of students than in any previous year since the establishment of the School. Without including Columbia College Seniors, 58 of whom pursued graduate courses, or Barnard College Seniors, 26 of whom pursued equivalent courses offered by this Faculty, the attendance for the year was 450. Of this number, 250 were primarily registered under the Faculty of Law, 44 under the Faculty of Philosophy, and three under the Faculties of Pure Science and Applied Science. Of the students primarily registered in the School of Political Science, 41 were simultaneously pursuing courses of study in the theological seminaries of New York and New Jersey; 35 in the Union Theological Seminary, three in the Drew Theological Seminary, two in the General Theological Seminary, and one in St. Joseph's Theological Seminary.

Classified from another point of view, 267 of the 450 students were pursuing the courses offered in the School of Political Science as graduate courses leading to the Master's and Doctor's degrees, while 183 law students were taking courses, mainly in public law and comparative jurisprudence, as a part of their legal education. Of the 450 students, 397 were men and 53 women. Of the latter, 36 were primarily registered in the School of Political Science, 15 in the School of Philosophy, and two in the School of Pure Science.

The growth of the School of Political Science during the past four years is indicated in the following table:

| Total students, excluding Sen-                       |     | 1899-1900 | 1900–1901 | 1901-1902 |
|--|-----|-----------|-----------|-----------|
| iors in the College                                  | 203 | 228       | 268       | 450       |
| Primarily registered in Law                          | 93  | 76        | 127       | 250       |
| " in Philosophy<br>" in Pure or                      | 13  | 19        | 13        | 44        |
| Applied Science<br>Primarily registered in Political | 2   | 2         | 2         | 3         |
| Science  |     | 132       | 126       | 153       |

The great increase during the past year in the total attendance—an increase of 68 per cent.—is chiefly due, as will be noticed, to the greater number of law students who are combining the study of public law with that of private law. At the same time the number of students primarily registered in the School of Political Science shows a gratifying increase of more than 21 per cent. The steady growth of the School during the past decade is best illustrated by a study of the primary registration alone:

| 1892-95   | verage  | primary  | registration | <br> |  |      |  | 52  |
|-----------|---------|----------|--------------|------|--|------|--|-----|
| 1005-00   |         |          |              | <br> |  | <br> |  | 73  |
| 1898-1901 | "       |          | 4.6          |      |  |      |  | 117 |
| 1901-021  | orimary | registra | tion         |      |  |      |  | 153 |

During the past academic year 45 candidates, having all their subjects, or at least their major subject, under this Faculty, have been promoted to the degree of Master of Arts; and seven candidates, having all their subjects under this Faculty, have been recommended for the degree of Doctor of Philosophy. Three of these seven had their major subject in the field of history, two in public law, and two in economics or sociology. The first doctorates awarded on the recommendation of the Faculty of Political Science were conferred in the year 1882-83. The following table shows the total number of doctorates awarded, from that date to the present time, to candidates having all their subjects, or their major subjects, under the jurisdiction of this Faculty. The table is arranged by quinquennial periods, and indicates the distribution of the candidates, as regards their major subjects, among the three great groups of historical, legal, and economic studies. It not only shows, like the other tables above presented, a steady growth of the work of the entire School, but it indicates how economics and history, in consequence of the gradual strengthening of the teaching force in these departments, have obtained, during the last few years, a development which brings them fully abreast of public law and jurisprudence.

#### Doctorates in Political Science

|           | History | Public Law<br>and<br>Jurisprudence | Economics<br>and<br>Sociology | Totals |
|-----------|---------|------------------------------------|-------------------------------|--------|
| 1882-87   | 2       | 7                                  | 3                             | I 2    |
| 1887-92   | 3       | 12                                 | 4                             | 19     |
| 1892-97   | 4       | IO                                 | II                            | 25     |
| 1897-1902 | 9       | IO                                 | IO                            | 29     |
|           |         |                                    |                               |        |
| Totals    | 18      | 39                                 | 28                            | 85     |

In the report of the Registrar will be found tabular statements of the courses of study offered in the School, together with the attendance upon each, as follows:

#### Group I—History and Political Philosophy

| Α. | European History     | page 322 |
|----|----------------------|----------|
| В. | American History     | page 322 |
| С. | Political Philosophy | page 322 |

#### Group II—Public Law and Comparative Jurisprudence

| page 347          | A. Constitutional Law                    |
|-------------------|--|
|                   | B. International Law                     |
|                   | C. Administrative La                     |
| arative Jurispru- | D. Roman Law and                         |
| page 347          |  |
| arative Jurispru- | C. Administrative La<br>D. Roman Law and |

#### Group III-Economics and Social Science

| Α. | Political Economy and Financepage 314 |  |
|----|---------------------------------------|--|
| В. | Sociology and Statisticspage 314      |  |

#### WORK IN THE SEMINARS

#### Seminar in European History

Professor Robinson. 2 hours fortnightly. 10 members. The subject treated was The Great Schism and the Council of Constance. In addition to reading and discussing Dietrich von Nieheim's *De Schismate Libri III*, the members presented the following papers:

| The Attempt of the Council of Constance to |                  |
|--|------------------|
| Reform the Church                          | Frank A. Fall    |
| Sigismund and the Council of Constance     | Felix Hecht      |
| Gerson and his Work                        | Henry Johnson    |
| Huss before 1414                           | Louise R. Loomis |
| The Negotiations Leading up to the Council |                  |
| of Pisa                                    | Preserved Smith  |
| The Trial of Huss                          | Susan Titsworth  |
| Wyclif's Influence on Huss                 | Martin Walker    |
| The English "Nation" at Constance          | William N. Weir  |

Seminar in Modern European History

Professor Sloane. 2 hours a week. 7 members.

The general subject treated was Napoleon's Continental System. The following papers were read:

| British Orders and French Decrees            | Walter L. Fleming  |
|--|--------------------|
| Prussia's Adhesion to the Continental System | Frank E. Hinckley  |
| The Berlin Decree                            | Susan M. Kingsbury |
| The Genesis of the Continental System        | Samuel E. Moffett  |
| Results of the Continental System            | Henry R. Spencer   |
| The Milan Decree                             | David Y. Thomas    |
| Napoleon's Justification of his Continental  |                    |
| System                                       | Rosa V. Winterburn |
|  |                    |

Seminar in American Colonial History

Professor Osgood. 1 hour a week. 7 members. The following papers were read:

| The Policy of the Northern and Middle Colo- |                     |
|---|---------------------|
| nies towards the Indians in the Seventeenth |                     |
| Century                                     | J. Boyce Smith, Jr. |
| The Administrative System of Rhode Island   |                     |
| in the Seventeenth Century                  | Knowlton Durham     |
| Conditions Affecting Intercourse between    |                     |
| America and Europe in the Seventeenth       |                     |
| Century                                     | John F. Harper      |
| A Comparison between Dutch and English      |                     |
| Colonization in New York                    | Harry A. Gordon     |
| The Composition of the Population North and |                     |
| East of the Delaware River in the Seven-    |                     |
| teenth Century                              | Miriam F. Choate    |
| The Composition of the Population South and |                     |
| West of the Delaware River in the Seven-    |                     |
| teenth Century                              | Margaret E. Johnson |
| The Economic System of New England in the   |                     |
| Seventeenth Century                         | Ida M. Hollis       |

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Papers presented in connection with the course on American Colonial History contained discussions of the historical literature and the sources relating to the American colonies in the seventeenth century.

## Seminar in Political Philosophy

Professor Dunning. I hour a week. I member.

Mr. William O. Easton presented careful critiques on several of the more prominent works on political theory in recent times.

# Advanced Seminar in Constitutional Law

Professor Burgess. 1 hour a week. 5 members.

The subject treated in this Seminar was Judicial Organization in the Principal States of Europe and in the United States. The following papers were read:

| Judicial Organization of the United St | ates Samuel B. Crandall |
|--|-------------------------|
| Judicial Organization of Great Britain | William O. Easton       |
| Judicial Organization of the German E  |                         |
| Judicial Organization of Italy         |                         |
| Judicial Organization of Spain         |                         |

The instruction in the course on Private Rights and Immunities under the Constitution of the United States is also largely of the nature of seminar work. The candidates for the Master's degree who have Constitutional Law for a major subject did their research work for their essays in connection with this course. The course was used for this purpose during the past year by fifteen students, five of whom prepared Master's essays upon different questions concerning the rights and immunities of citizens and persons under the Constitution of the United States.

Seminar in Diplomacy and International Law

Professor Moore. 2 hours a week. 8 members.

The following papers were read:

| Treaties: Their Making, Interpretation, and |                      |
|---|----------------------|
| Enforcement                                 | Samuel B. Crandall   |
| The Jurisdiction of the Admiralty           | Howard S. Harrington |
| Consular Jurisdiction in the East           | Frank E. Hinckley    |
| The Development of International Law in     |                      |
| Japan                                       | Seiji Hishida        |
| Nationality                                 |                      |

# Seminar in Administrative Law

Professor Goodnow. I hour a week. 8 members.

The work of the Seminar consisted in the study of cases, one hundred and twenty of which were examined and discussed. No papers were read.

#### Seminar in Comparative Jurisprudence

Professor Munroe Smith. 1 hour a week. 9 members.

The work of the Seminar during the past year consisted in the comparative study of the doctrines of mistake and fraud in the English law, Roman law, and modern civil law.

The titles of the Digest and Codex of Justinian relating to the action and the exception of fraud were read and discussed, and the corresponding sections of the Motives presented with the first draft of the German Imperial Code were examined. The following papers were read :

| Remedies Given to Contracting Parties for    |                      |
|--|----------------------|
| Damages Suffered by the Fraud of a Third     |                      |
| Person                                       | Joseph D. Fackenthal |
| Fraud as Affecting the Wrongdoer's Assignees | H. Starr Giddings    |
| The Roman Law of Mistake                     | Edwin C. McKeag      |
| Fraud in Judgments                           | Thomas E. O'Brien    |

Seminar in Political Economy and Finance

Professor Seligman. 2 hours fortnightly. 15 members. The following papers were read:

| Economic Aspects of the Matriarchate         | Henry R. Mussey      |
|--|----------------------|
| Origin and Development of Slavery            | Samuel Peskin        |
| Industry and Class Relations in Greece       | Harry B. Mitchell    |
| Economic Aspects of Colonial Expansion       | Everett B. Stackpole |
| Economic Aspects of Colonial Expansion       | John L. Tildsley     |
| The Theory of Ability                        | John H. Marsching    |
| The Theory of Wages                          | Enoch M. Banks       |
| Relations of Local to General Finance        | Tsuruziro Hara       |
| Indirect Taxes as a Source of Local Revenues | Robert B. Olsen      |
| Philosophy of the Single Tax                 | Arthur J. Boynton    |
| Exemption of Improvements in Local Taxa-     |                      |
| tion   | Harry B. Barnett     |
| Theory of Railway Rates held by the Inter-   |                      |
| state Commerce Commission                    | Frank F. Nalder      |
|  |                      |

Some of the above members, as well as other members, made reports at each session on periodical literature.

### DEAN'S REPORT

# Seminar in Political Economy and Finance

Professor Clark. 2 hours fortnightly. 16 members. The following papers were presented:

| Municipal Activities                      | Ray McClintock       |
|---|----------------------|
| Municipal Activities in England           | Frank F. Nalder      |
| Municipal Activities in the United States | Ray W. Thompson      |
| Socialism                                 | James A. McQueen     |
| Socialism in the Southwest                | Wallace E. Miller    |
| The Theory of Monopolies                  | Henry R. Mussey      |
| Governmental Monopolies                   | Yoshimasa Ishikawa   |
| Laws Concerning Monopolies                | George B. Keeler     |
| Theories of Protection                    | Arthur J. Boynton    |
| Modern Aspects of the Tariff              | Harry B. Bennett     |
| Theories of Wages                         | Isaac R. Henderson   |
| The Bargain Theory of Wages               | John S. Hershey      |
| Von Bohm-Bawerk's Theory of Interest      | Robert B. Olsen      |
| Over-Production                           | Samuel Peskin        |
| European Trusts                           | Everett B. Stackpole |
| The Value of Money                        | Joseph C. Freehoff   |
| Child Labor in the United States          | Anna M. Cordley      |

# Seminar in Sociology

Professor Giddings. 2 hours fortnightly. 34 members. The following papers were read during the first half-year:

| The Russian Jews            | Wallace E. Miller    |
|-----------------------------|----------------------|
| The Poles                   | Margaret F. Byington |
| The Sicilians               | Eleanor H. Bush      |
| The Slavic Austrians        | Lee Waldorf          |
| The Russian Slavs           | John A. McCallum     |
| The Hungarians              | Charles C. Miller    |
| The Slovaks and Lithuanians | Charles D. Bates     |
| The Croatians               | George F. Nason      |

The following papers were read during the second halfyear:

| An Analysis of the Statistical Reports of the  |                       |
|--|-----------------------|
| New York State Board of Charities              | Clinton A. Billig     |
| Causes of the High Divorce Rate in Cities      | Ray W. Thompson       |
| Critical Analysis of the Statistics and the    |                       |
| Literature of the Negro Question               | Lee Waldorf           |
| Critical Analysis of Early Records of Mission- |                       |
| ary Activity                                   | Herbert G. Crocker    |
| Descriptive Sociology of Kansas                | Wallace E. Miller     |
| Massachusetts during the Great Revival         | Samuel P. Hayes       |
| The Sociological Writings of Gabriel Tarde     | Michael M. Davis, Jr. |
|  |                       |

#### WORK OF FELLOWS

During the year the following persons have held fellowships in subjects falling under the jurisdiction of this Faculty:

I. SAMUEL BENJAMIN CRANDALL . . . . . International Law Alfred University, B.S., 1807.

Columbia University, Scholar in Public Law, 1900-01.

- Mr. Crandall devoted the year to further work in public law under the especial direction of Professor Moore. He made excellent progress in the preparation of his Doctor's dissertation on "Treaties," reading three papers during the year in Professor Moore's Seminar. He read also in Professor Burgess's Seminar. He passed in May his oral examinations for the Doctor's degree.
- 2. WALTER LYNWOOD FLEMING . . . . . American History Alabama Polytechnic Institute, B.S., 1896; M.S., 1897. Columbia University, A.M., 1901.
  - Mr. Fleming read a paper in Professor Sloane's Seminar and presented other papers in connection with Professor Robinson's course on Mediæval Institutions and Professor Osgood's course on American Colonial History. He worked under the direction of Professor Dunning upon his Doctor's dissertation. His subject is "The Reconstruction of Alabama," and he expects to spend the summer investigating the sources in that state. He passed in May his oral examinations for the Doctor's degree.

Political Science

. . Jurisprudence

3. JAMES WILFORD GARNER

Agricultural College of Mississippi, B.S., 1892.

University of Chicago, Ph.M., 1900.

Columbia University, graduate student, 1900-01.

Mr. Garner, the George William Curtis Fellow, continued his work in public law under the special direction of Professor Burgess. His researches upon the judicial organization of the German Empire took the form of an excellent monograph, a part of which will be published in the *Political Science Quarterly*. Mr. Garner received the Doctor's degree at Commencement. He has been appointed to take the place of Dr. Shepherd, absent on leave, as Instructor in History, and has therefore resigned the Curtis fellowship.

4. EDWIN CORWIN MCKEAG .

Rutgers College, A.B., 1896; A.M., 1897.

Columbia University, LL.B., 1900.

Mr. McKeag worked during the year in public law and jurisprudence, and in political economy and finance.

He took part in Professor Munroe Smith's Seminar, and made good progress in the preparation of his Doctor's dissertation upon "The Doctrine of Mistake in Roman and in English Law." He passed, in June, his oral examinations for the Doctor's degree.

5. ROYAL MEEKER

Finance

Columbia University, graduate student, 1899-1901.

Mr. Meeker was principally engaged during the year in investigating the policy of shipping subsidies, under the direction of Professors Clark and Seligman. On receiving a favorable offer from the Reform Club to do some work for them on the same subject, Mr. Meeker resigned the emoluments of his fellowship. He attended the Seminar in Political Economy, participating in its discussions and making several reports.

6. HENRY RAYMOND MUSSEY . . Economics . Beloit College, A.B., 1900.

. .

Mr. Mussey read papers in Professor Seligman's Seminar and in Professor Clark's Seminar, and continued his investigations on the subject of trusts. On the resignation of Mr. Day, Mr. Mussey was selected to take up Mr. Day's work in the required course in Economics in the College.

7. ULRICH BONNELL PHILLIPS

History

. . . University of Georgia, A.B., 1897; A.M., 1899.

Columbia University, graduate student, 1900-01.

Mr. Phillips, the Schiff Fellow, continued his work in history, presenting papers in connection with Professor Osgood's course on American Colonial History, and completing his dissertation upon "Georgia and State Rights" under the direction of Professor Dunning. Upon this dissertation Mr. Phillips received the Justin Winsor Prize offered by the American Historical Association. He received the Doctor's degree from Columbia University at Commencement.

8. DAVID YANCEY THOMAS .

. History

Emory College, A.B., 1894.

Vanderbilt University, A.M., 1898.

University of Chicago, graduate student, 1898-99.

Mr. Thomas presented papers during the year in connection with Professor Osgood's courses on American Colonial History and on English History. He has also completed, under the direction of Professor Dunning. his Doctor's dissertation upon "Military Government in the United States Prior to the Civil War." He passed in May his oral examinations for the Doctor's degree.

Sociology

9. JAMES MICKEL WILLIAMS Brown University, A.B., 1898. Union Theological Seminary, B.D., 1901. Columbia University, graduate student, 1898-1901. Mr. Williams was engaged during the past year, under the direction of Professor Giddings, upon a detailed statistical and historical study of a town in central New York, an attempt to combine statistics with description and narration in local history. He also continued the study of social settlements in New York City begun by a former Fellow. He passed, in May, his oral examinations for the Doctor's degree.

Of the Studies in History, Economics, and Publications under Public Law, under the editorial management of the Super-Professor Seligman, there have appeared during vision of the the year three numbers: Faculty

Vol. XIV. No. 3. The Eastern Question. A Study in By Stephen P. H. Duggan, Ph.D. Diplomacy. The Past and Present of Commerce in Japan. Vol. XVI. No. 1. By Yetaro Kinosita, Ph.D. Vol. XVI. No. 2. The Employment of Women in the Clothing By Mabel Hurd Willett (Mrs.), Ph.D. Trade.

The Political Science Quarterly has continued to prosper. With the close of the year 1901 it completed its sixteenth - annual volume. It has devoted special attention during the year to the problems presented by the American control of insular dependencies.

Three successful meetings of the Academy were held during The first was a meeting of the Fellows only, who the year. Academy of participated in a discussion, opened by Professor Seligman, of the work of the Committee of Fifteen. Political Science At the second meeting the Hon. A. B. Hepburn read a very thorough paper on the plan submitted by Secretary Gage for the reorganization of the national banking system. The third meeting was addressed by Frederic R. Coudert, Jr., on the topic "Practical Legal Difficulties Incident to a Transfer of Sovereignty."

The History Club held but one regular meeting, at which Professor Seligman read a paper upon "The Economic

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Interpretation of History. Under the auspices of this Club there has this year been organized a society of History the teachers of history in New York City, and this Club last has held two well attended and interesting meetings.

During the year the Faculty has taken the action shown below in the extracts from its minutes on matters of general University interest and importance: Legislation

(October 18, 1901)—*Resolved*, That candidates offering Constitutional Law as a major subject must take Administrative Law or International Law, as one minor subject.

(Feb. 21, 1902)—*Resolved*, That the course on Comparative Administrative Law (Public Law 16) be opened to Seniors in Columbia College during the first half-year, and that the course on American Diplomacy (Public Law 7) be opened to Seniors in Columbia College during the second half-year.

*Resolved*, That Criminal Law be withdrawn from the list of subjects which may be selected for the degrees of Master of Arts and Doctor of Philosophy.

(March 21, 1902)—*Resolved*, That Professor Gottheil of the Department of Semitics be invited to deliver a course of lectures upon the History of Mohammedanism, and that this course be described as History 58.

*Resolved*, That Professor Jackson of the Department of Indo-Iranian Languages be invited to deliver a course of lectures upon the History of India, and that this course be described as History 57.

*Resolved*, That Professor Prince of the Department of Semitics be invited to deliver a course of lectures on the History of Western Asia and Egypt, and that this course be described as History 56.

*Resolved*, That the University Council be requested to create a new subject for the degrees of Master of Arts and Doctor of Philosophy, to be described as Ancient History.

During the past year the following persons, former students of the School of Political Science, have obtained first appointments, or have been advanced to better positions, Appointas teachers, as state officers, or in the federal civil ments service. The dates immediately following each name indicate the period of residence in the School.

#### I. EDUCATIONAL APPOINTMENTS

CARL L. BECKER, 1898-99, University Fellow, 1898-99, ERNEST L. BOGERT, 1897-98, Instructor in History, Dartmouth College.

Professor of Economics and Sociology, Oberlin College.

- WILLIAM O. EASTON, 1900-02, A.M., 1902,
- WALTER L. FLEMING, 1900-02. A.M., 1901; University Fellow, 1901-02; Cand. Ph.D., JAMES W. GARNER, 1900-02,
- Curtis Fellow, 1901-02;
- Ph.D., 1902, William N. Glasson, 1898, University Fellow, 1898-99; Ph.D., 1900,
- ALVIN S. JOHNSON, 1898-1901, University Fellow, 1900-01; Cand., Ph.D.,
- JAMES A. MCLEAN, 1892-94, University Fellow, 1892-94; Ph.D., 1894, SIMON J. MCLEAN, 1895-96,
- University Fellow, 1895-96; A.M., 1896, Ulrich B. Phillips, 1900-02,
- University Fellow, 1900-01; Schiff Fellow, 1901-02;
- Ph.D., 1902, WILLIAM Z. RIPLEY, 1891-93, University Fellow, 1891-93; Ph.D., 1893,
- WILLIAM R. SHEPHERD, 1893-95, University Fellow, 1893-95; Ph.D., 1896,
- WILLIAM ROY SMITH, 1898-1900; University Fellow, 1898-1900;
- Cand. Ph.D., EARL EVELYN SPERRY, 1800-
- 1901, University Fellow, 1900-01; Cand. Ph.D., EDWIN P. TANNER, 1897-1900, A.M., 1898; University Fellow, 1899-1900; Cand. Ph.D.,
- Holland Thompson, 1899-1901, University Fellow, 1899-1900; A.M., 1900, Albert C. Whitaker, 1899–1901,
- University Fellow, 1900-01; Cand. Ph.D.,
- Allan H. Willett, 1898-1901, Ph.D., 1901, JAMES MICKEL WILLIAMS, 1898-
- 1902, University Fellow, 1901-02; Cand. Ph.D.,

- Instructor in History and Sociology, Adelphi College. Lecturer in History, Columbia
- University.
- Lecturer in History, Columbia University.
- Professor of Political Economy, Trinity College, Durham, N. C.
- Tutor in Economics, Columbia University.
- President, University of Idaho.
- Associate Professor of Economics, Leland Stanford Jr. University.
- Instructor in History, University of Wisconsin.
- Professor of Economics, Harvard University.
- Instructor in History, Columbia University.
- Associate in History, Bryn Mawr College.
- Instructor in European History, Syracuse University.
- Assistant in History, Syracuse University.
- Instructor in History, College of the City of New York.
- Instructor in Economics, Leland Stanford Jr. University.
- Instructor in Economics, Brown
- University. Instructor in Political Economy, Smith College.

#### 2. GOVERNMENTAL APPOINTMENTS

DAVID P. BARROWS, 1895-97,

- MILO R. MALTBIE, 1895-97, University Fellow, 1895-96; Ph.D., 1897,
- Chief of Bureau for non-Christian
- Tribes, Philippine Islands. Assistant Secretary, Municipal Art Commission, New York City.

- JAMES B. REYNOLDS, 1894-97, University Fellow, 1894-95; Annual Fellow, 1895-97; 1900-02,
- MAX WEST, 1891-93, University Fellow, 1892-93; Ph.D., 1893,
- Secretary to the Mayor of New York City.
- Head of Bureau of Statistics, Borough of Brooklyn, Tenement House Commission.

#### 3. MISCELLANEOUS APPOINTMENTS

- CHARLES E. EDGERTON, 1898-99,
- ARTHUR C. HALL, 1894-95, University Fellow, 1894-95; Ph.D., 1901,
- ROYAL MEEKER, 1899-1902, Honorary Fellow, 1901-02; Cand. Ph.D., FREDERICK A. WOOD, 1892-94, Seligman Fellow, 1893-94;
- Ph.D., 1894,
- Secretary of the Society for the Restriction of Immigration. Head of Social Settlement, Orange, New Jersey.

- Secretary of Committee on Tariff Reform, Reform Club, New York City.
- Editorial writer, The Transcript, Boston, Mass.

In the early part of the year, the Faculty of Political Science was called to mourn the death of one of its chief members. Richmond Mayo-Smith, Professor of Political Economy and Social Science, returned to his duties at the beginning of the year in failing health, and was obliged to ask for leave of absence for the purpose of restoring his impaired powers. The Trustees granted most generously his application, and it was hoped that a few months of rest would restore him to his accustomed vigor and to his work. But to the sorrow of his colleagues in this Faculty and in the entire University, his condition rapidly grew worse and he died in November. He was one of the original members of the Faculty, and contributed very largely to the establishment and to the reputation of the School of Political Science. He was, also, most active and efficient in the work of reorganizing the University under its present form, and was the elected representative of this Faculty on the University Council almost uninterruptedly. He contributed more than any other one man to the development of the science of statistics in the United States. As a man, he was loved and respected by all who knew him for his gentle manners, his warm heart, his sound judgment, his absolute truthfulness, and his fidelity to duty. As a teacher, he was noted for his soundness, conservatism, and clearness, and for his devotion to the welfare

of his students. And as a scholar, he was a universally acknowledged leader in the development of economic and statistical science. His published works upon the subjects of Statistics and Sociology, and Statistics and Economics, are epoch-making contributions to those comprehensive domains of knowledge. His loss is felt by his colleagues in this Faculty to be almost irreparable.

To fill the great vacancy thus made, the Faculty recommended, and the Trustees have called, Professor Henry Rogers Seager, Ph.D., from the University of Pennsylvania, and Professor Henry L. Moore, Ph.D., from Smith College, to occupy seats in this Faculty as Adjunct Professors of Political Economy. Both of these gentlemen are well-known scholars and teachers of the first rank, and their colleagues in this Faculty confidently expect that they will prove worthy successors to the founder of the department in which they are called to labor.

Respectfully submitted,

JOHN W. BURGESS,

Dean.

June 7, 1902.

# SCHOOL OF PHILOSOPHY

# REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

To the President of Columbia University in the City of New York,

Sir:

I have the honor to present herewith the twelfth annual report concerning the work of the Faculty of Philosophy, covering the academic year ending June 30, 1902.

I was designated as Acting Dean of the Faculty of Philosophy early in October, 1901, was elected Dean on January 10, 1902.

The fuller tables of statistics hitherto appended to these reports have been omitted here, in accordance with your directions. The information contained therein will be found in the reports of the Registrar of the University, pp. 273-354.

Statement A contains the names of the University Fellows in residence during the academic year 1901-02, and a brief account of the chief work engaged in by each during the year.

The total number of individuals pursuing studies wholly or in part under the jurisdiction of this Faculty has been 360. This shows an increase over the total registration for 1900-01 of 60, or 20 per cent. The growth from 1899-1900 to 1900-01 was 9 per cent. It is to be noted that in this total the proportion of students primarily registered under this Faculty is nearly identical with that of the previous year, the figures being as follows:

 1900–01

 Primary registration 3554, or S1 per cent.

 1901–02

 Primary registration 3554, or S0 per cent.

| I. | Primary registration:  |                     |           |                         |           |
|----|--|---------------------|-----------|-------------------------|-----------|
|    | Students holding a Bachelor's degree<br>or its equivalent from a foreign in-<br>stitution:   | 1900                | -01       | 1901                    | -02       |
|    | Men  | 153                 |           | 181                     |           |
|    | Women  | 91                  |           | 113                     |           |
|    |  |                     | 244       |                         | 294       |
| 2. | Secondary registration:<br>From the Faculty of Political<br>Science<br>From the Faculty of Pure Science .<br>From the Faculty of Applied Science<br>From the Faculty of Law<br>From Teachers College | 26<br>16<br>0<br>14 | 56<br>300 | 32<br>8<br>1<br>2<br>23 | 66<br>360 |

Of the 32 primarily registered under the Faculty of Political Science and secondarily under this Faculty, 5 were also candidates for the degree of bachelor of laws. The 23 students from Teachers College entered here under "Secondary Registration" were not candidates for either of the higher degrees under this Faculty, all such candidates being included under our primary registration.

The number of students under the Faculty of Philosophy who were also students in one or another of the theological seminaries in or near New York and were admitted to Columbia University under the original resolution of the Trustees, dated April 7, 1890, and its later extension, is shown in the following table, the figures for 1900–01 being added for comparison:

| 1900-01         Union Theological Seminary | 1901-02<br>15<br>3<br>10<br>1<br>1 |
|--|------------------------------------|
| 33   | 30                                 |

The total number of auditors enrolled during the year was the same as in 1900-01, viz.: 28, distributed among the various departments as follows:

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| Anthropology           | £ |
|------------------------|---|
| Comparative Literature | Ľ |
| English I              | r |
| Germanic Languages     | 2 |
| Greek                  |   |
| Music                  | 1 |
| Psychology             | 5 |
| Romance Languages      | 2 |
|                        | - |
| 28                     | 3 |

In the Registrar's Report will be found a tabulated statement of the degrees held by the 294 students primarily enrolled under this Faculty, and a similar statement of the institutions at which these degrees were earned.

The number of courses of instruction and research given during the year by the several departments of this Faculty appears in the following table:

| Department                  | Number of courses | Increase<br>from prev | Decrease<br>ious year |
|-----------------------------|-------------------|-----------------------|-----------------------|
| Comparative Literature      | 10                | I                     |                       |
| English                     | 17                | 2                     |                       |
| Germanic Languages          | 17                | 3                     |                       |
| Greek                       | 9                 | _                     |                       |
| Indo-Iranian Languages      | 8                 | _                     | 2                     |
| Latin                       |                   | _                     | 2                     |
| Linguistics                 | I                 |                       |                       |
| Music                       | 6                 | _                     | _                     |
| Philosophy and Ethics       | 8                 |                       | I                     |
| Psychology and Anthropology | 19                | 4                     |                       |
| Romance Languages           | 19                | 4                     |                       |
| Semitic Languages           | 9                 | I                     |                       |

The courses in Education, as given primarily at Teachers College, do not figure in the above table.

UNIVERSITY FELLOWS APPOINTED FOR 1902-03, BY DEPARTMENTS

| Division of Philosophy and Psychology :<br>Philosophy .<br>Psychology .<br>Anthropology . | I<br>I<br>I |
|---|-------------|
| Division of English and Literature:<br>English.<br>Letters (Proudfit)                     | I           |
| Division of Classical Philology:<br>Classical Philology (Drisler)<br>Greek                | I           |

| Division of Modern European Languages: |
|--|
| Germanic Languages 2                   |
| (1 Schurz)                             |
| Romance Languages                      |

The fellowships in Education are now assigned to Teachers College.

| DEGREE OF DOCTOR OF PHILOSOPHY, MAJOR SUBJECTS CLASSIFIED<br>ACCORDING TO DEPARTMENTS, 1901-02       |  |  |  |  |
|--|--|--|--|--|
| Division of Philosophy and Psychology:<br>PhilosophyI<br>Psychologyo<br>Anthropologyo                |  |  |  |  |
| Department of Education  |  |  |  |  |
| Division of English and Literature:<br>English   |  |  |  |  |
| Division of Classical Philology:<br>Greek  |  |  |  |  |
| Division of Oriental Languages:<br>Semitic   |  |  |  |  |
| Division of Modern European Languages:<br>Germanic   |  |  |  |  |
| 12<br>DEGREE OF DOCTOR OF PHILOSOPHY, MINOR SUBJECTS CLASSIFIED<br>ACCORDING TO DEPARTMENTS, 1901-02 |  |  |  |  |
| Division of Philosophy and Psychology:       2         Philosophy                                    |  |  |  |  |
| Department of Education 4  |  |  |  |  |
| Division of English and Literature:<br>English   |  |  |  |  |
| Division of Classical Philology:<br>Greek. I<br>Latin. I<br>Classical Archæology. I                  |  |  |  |  |

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| Division of Modern European Languages:<br>Germanic<br>Romance.                    | 0<br>I        |
|---|---------------|
| Division of Oriental Languages:<br>Semitic<br>Indo-Iranian                        | 2<br>I        |
|   | 23            |
| DEGREE OF MASTER OF ARTS, MAJOR SUBJECTS CLASSIFIED AC<br>TO DEPARTMENTS, 1901-02 | CORDING       |
| Division of Philosophy and Psychology:  |               |
| Philosophy<br>Psychology  | 10<br>I       |
| Anthropology  | 0             |
| Department of Education   | 41            |
|   |               |
| Division of English and Literature:<br>English<br>Comparative Literature          | 17<br>8       |
| Division of Classical Philology:  |               |
| Greek.<br>Latin   | 3<br>6        |
| Division of Modern European Languages:  |               |
| Germanic  | 3<br>1        |
| Division of Oriental Languages:   |               |
| Semitic   | 0             |
| Indo-Iranian<br>Comparative Philology   | 0             |
|   |               |
| DEGREE OF MASTER OF ARTS, MINOR SUBJECTS CLASSIFIED AC                            | 90<br>CORDING |
| TO DEPARTMENTS, 1901-02   |               |
| Division of Philosophy and Psychology:<br>Philosophy.                             | 9             |
| Psychology.   | 13            |
| Anthropology  | 0             |
| Department of Education   | 54            |
| Division of English and Literature:   |               |
| English   | 27<br>7       |
| Division of Classical Philology:  | ,             |
| Greek   | 7             |
| Latin   | 13            |
| Division of Modern European Languages:  | 0             |
| GermanicRomance.  | 8<br>4 '      |
|   | 4             |

| Division of Oriental Languages: |     |
|---------------------------------|-----|
| Semitic                         | 2   |
| Indo-Iranian                    | 2   |
| Comparative Philology           | 0   |
|                                 |     |
|                                 | 146 |

To the many societies and clubs, associated with the several departments, which exist for the discussion of scientific subjects connected with the work of these departments, has been added during the past year a new one, the Classical Club, under the auspices of the Division of Classical Philology. The activity of these societies, such as the Deutscher Verein, the Romance Club, and others, cannot be too highly commended, as giving opportunity for that informal intercourse of instructors and students, and informal occupation with scientific subjects, which quicken and intensify the interest of both teachers and pupils in the highest degree. The management of such clubs is, as it should be, largely in the hands of the students.

Some changes have occurred during the year in the composition and arrangement of the Faculty. The arduous duties of the Presidency of the University made it impossible for Professor Butler to continue all the courses announced by him, but the Seminar in Education was carried on by him during the year, his other courses being divided among the instructors in the Department of Philosophy and Education. Professor Hyslop has been absent on leave, his work being carried on chiefly by Dr. Jones.

The Trustees, at their meeting of March, 1902, set off the work in education from that in philosophy, assigning it entirely to Teachers College, which thus becomes, for the Faculty of Philosophy, an elaborate Department of Education, its head being the Dean of Teachers College. This division had been tacitly assumed, for administrative purposes, throughout the greater part of the academic year. The Department of Anthropology was similarly set off from the Department of Psychology and reconstituted on an independent basis, and a new department formed, to be called Department of Philosophy and Psychology, with Professor Cattell as administrative head. At the request of the Faculty, seats in the Faculty of Philosophy have been assigned to Professors F. T. Baker and Julius Sachs of Teachers College.

By action of the Trustees on May 5th the Department of Music was removed from the jurisdiction of this Faculty. The consequent withdrawal of Professor MacDowell from the Faculty is a matter of great regret to the members; but the interests of the Department of Music will undoubtedly be much better conserved by the new arrangements made for it. The creation of two new professorships in this Faculty, one in the Department of Semitic Languages and one in Social and Political Ethics, is a reinforcement on which the Faculty may well congratulate itself; and the election of Professor Prince and Dr. Adler to fill these chairs, and that of Professor Woodbridge to the chair of Philosophy, guarantees to the University the activity of thoroughly competent incumbents.

The Faculty legislation during the year has been confined to matters of administrative routine. The recommendations made by this Faculty to the University Council, on March 8, 1901, concerning the choice of subjects for the higher degrees, were adopted by the Council, in a somewhat modified form, at its meeting in November, 1901. It is now possible for a candidate, with the consent of the Dean and the Professor in charge of his major subject, to select both minor subjects within the same department, or to divide a minor subject, taking parts of two subjects germane to his major subject. During the past year two candidates have availed themselves of this privilege, taking both minors in English.

Two recent innovations of this Faculty have been put to a thorough test during the past year, and in both cases the wisdom of the change has been abundantly proved. The first is the rule which limits the admission to full candidacy for the Doctor's degree to those who can show a reading knowledge of French, German, and (except in certain departments) Latin. The second is the division of the Faculty, for the purpose of examining candidates for the Doctor's degree, into the three groups of (a) philosophy, psychology, and education, (b) ancient languages and literatures, and (c) modern European languages and literatures. Under this system, the attendance at the examinations has been much larger than under the old, and the proceedings have been in every way more dignified and interesting. A further improvement has been the holding of these examinations in the Trustees' Room. As the oral tests last sometimes for more than two hours the gain in holding them in attractive and impressive surroundings is very great, both to candidates and examiners, and the opinion has been universally expressed that this, the most important of all examinations held by the University, has gained vastly in dignity by the change. The examination of one of the candidates, whose major subject was in Romance Languages, was honored by the presence of M. Alfred Croiset, Dean of the Faculty of Letters in the University of Paris, who not only showed great interest in the proceedings, but took part in them at the invitation of the Dean, and appended his name to the report of the examination.

As will be seen from the figures quoted above, a very large proportion of the candidates for the higher degrees (50 per cent. of the doctors, 45 per cent. of the masters) under this Faculty offered education as major subject. This is due largely to the relations of the Faculty with Teachers College, and to the regulation now in force by which a candidate for the "master's" or "doctor's diploma" of Teachers College may be also, without additional requirement of essay or dissertation, or of courses to be taken, a candidate for the master's or doctor's degree of Columbia University. This arrangement undoubtedly offers many advantages, particularly from the point of view of Teachers College, but it is obvious that very careful administration is necessary to uphold the full dignity of the University degree. The choice of the names "master's diploma" and "doctor's diploma" I cannot but think unfortunate, as likely to lead to confusion between the honor awarded by Teachers College and that bestowed by the University, because the term "diploma" is inseparably connected in the public mind with the possession of a degree. In many departments the theoretical instruction in the subject-matter given at Columbia is paralleled by instruction in the principles and practice of teaching that subject-matter given at Teachers College. Two corresponding courses of this kind, each given at one of these two parts of the University, may be of equivalent grade, but are not necessarily so; nor does it follow that an essay accepted for the master's diploma would *ipso facto* be accepted for the master's degree. In every such case it would seem only proper that an essay or dissertation dealing with *instruction* in any given subject should be submitted also for the approval of the department of Columbia University which teaches that subject, and not merely for the approval of the corresponding department of Teachers College.

Respectfully submitted,

EDWARD DELAVAN PERRY,

Dean.

June 25, 1902.

#### Statement A

#### UNIVERSITY FELLOWS, 1901-1902

I. ALLAN PERLEY BALL . . . Latin

(Honorary Fellow.)

- Amherst College, A.B., magna cum laude, 1892, and A.M., 1895; Student at the Collège de France, 1898-1899; Columbia University, Scholar in Latin, 1899-1900; Fellow in Latin, 1900-1901.
- Title of dissertation: The Satire of Seneca on the Deification of Claudius, commonly called the *Apokolokyntosis*.
- 2. JOHN ERSKINE . . . Letters

(Proudfit Fellow.)

- Columbia University, A.B., 1900; Proudfit Fellow in Letters, 1900–1901.
- Topics for papers or reports: The Use of the Subjunctive and the Infinitive in the Early Entries in the Anglo-Saxon Chronicle; the Metre of *Ralph Roister Doister*; The Dramatic Element in Dryden's Satire; Dryden's Lyric Poetry; Pope's Moral Essays; John Gay; Thomas Otway; The Personal History of Molière's Characters, as Implied in the Structure of his Dramas.
- 3. FRANK ANDREWS FALL . . . Comparative Literature (Annual Fellow.)

Albion College, A.B., 1899; Columbia University, Annual Fellow in Comparative Literature, 1900–1901.

- Subjects of investigation: The Influence of Oriental Literature upon English Literature since the Organization of the East India Company; The Tradition of Chivalry in Mediæval and Modern Literature; Characteristics of Spanish Literature; The Genius of Calderon; The Council of Constance and its Effects—a study in primary sources; Dietrich von Niem's Chronicle of the Great Schism; The Literature of the Italian Renaissance; Spread of the Renaissance Influence through Europe.
- Topics for papers or reports: English Books of Oriental Travel; Oriental Influence upon Beckford, D'Israeli, Southey, Byron, and Keats; Chivalry in Boiardo's Orlando Innamorato and Ariosto's Orlando Furioso; The Mediæval Idea of Love, and the Influence of Platonism upon it; The Cid Story and its Influence; The Don Juan Tradition and its Influence; The Mythological Plays and Autos of Calderon; Efforts of the Council of Constance toward Reform; Macchiavelli and the Doctrine of Virtù; Guillaume Budé and Étienne Dolet, Pioneer Humanists of France.

- 4. JAMES JOSEPH FINNIGAN . . . Romance Languages
  - Columbia University, A.B., 1900; Scholar in Romance Languages, 1900–1901.
    - Topics for papers or reports: Émile Augier; Alexandre Dumas, Fils.
    - Title of dissertation (probably): Phillippe Quinault (1635-1688).
- 5. JOHN SMITH HARRISON . . . Comparative Literature
  - Columbia University, A.B., 1899, and A.M., 1900; Scholar in Comparative Literature, 1900–1901.
    - Subject of investigation (for dissertation): Platonism in English Poetry.

Topics for reports or papers: The Platonism of Ficino.

6. WILLIAM HARRY HECK . . . English (Honorary Fellow.)

Wake Forest College, A.B., 1897, and A.M., 1899; Columbia University, Graduate Student, 1899-1900; Fellow in

English, 1900–1901.

Topics for reports or papers: Andrew Marvell; The Minor Satires of Butler; Variations of the Types of Pentameter Couplets Used from 1675 to 1725; Dryden's *Hind and Panther*; The Poems of Parnell; Hobbes's *Leviathan*.

7. WILLIAM JONES . . . Anthropology

- Harvard University, A.B., 1900; Columbia University, A.M., 1901; President's University Scholar, 1900-1901.
- Subject of investigation: The Ethnology and Linguistics of the Sauk and Fox Indians.

Topic for paper: Episodes in the Culture-Hero Myth of the Sauks and Foxes (*Journal of American Folk-Lore*, Vol. XIV, pp. 225-239).

8. JAMES FRANKLIN MESSENGER . . . Psychology

University of Kansas, A.B., 1895; University of New Mexico, A.M., 1900; Harvard University, Graduate Student, 1900– 1901.

Subject of investigation for dissertation: An Experimental Study of the Perception of Number.

Topics for papers: The Perception of Number through the Sense of Touch (Monograph Supplement to *The Psychological Review*); Reports on the above-mentioned investigation; Various reports in philosophy, psychology, and education.

o. Annina Periam . . . German

(Annual Fellow.)

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The Woman's College of Baltimore, A.B., 1898; Columbia University, A.M., 1901.

| Subject of | investigation: | The | Siegfried-saga | in | the | Nibelun- |
|------------|----------------|-----|----------------|----|-----|----------|
| genlied.   |                |     |                |    |     |          |

Topics for papers or reports: Klinger's Sturm und Drang and Die Zwillinge.

10. HARVEY WATERMAN THAYER . . . German

Bowdoin College, A.B., 1895; Harvard University, A.B., 1896; Student at the University of Leipsic, 1898-1899.

Subject of investigation: The Siegfried-saga in the Elder Edda.

Topics for papers or reports: The Folksong in Relation to the "Storm and Stress Period" of the 18th Century.

#### 11. SAMUEL MARION TUCKER . . . English

Wofford College, A.B., 1896; Columbia University, A.M., 1901.

Topics for papers or reports: The Prose Work of Butler; The Prologues of Dryden; The Verse-Satires of Swift; The Special Features of the Diction and Verse-form of *Hudibras;* The Bibliography of the American Satire.

# SCHOOL OF PURE SCIENCE

## REPORT OF THE DEAN

## FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

To the President of Columbia University

in the City of New York,

Sir:

I have the honor to submit the tenth annual report on the work of the Faculty of Pure Science. This report refers to the academic year ending June 30, 1902.

The statistics of attendance in the School of Pure Science are summarized in the following statement. For details with respect to the School as a whole and with respect to the departments represented therein, reference is made to the report of the Registrar of the University. The figures given below apply solely to those students who pursued graduate work in the School. They show a decrease of about ten per cent. in the aggregate from the corresponding figures of the preceding year.

Number of students registered primarily under the Faculty of Pure Science:

Candidates for higher degrees..... 57 Students not candidates for degrees..... 4—61

Number of students registered primarily under other Faculties of the University:

Candidates for higher degrees from:

| College of Physicians and Surgeons | 19   |
|------------------------------------|------|
| Schools of Applied Science         | 9    |
| School of Philosophy               | 5    |
| Teachers College                   | 7    |
| Barnard College                    | 1-41 |

The total number of students receiving instruction or pursuing research in the School during the year was, therefore, 102. This number is less by ten than the number in the School during the previous year, the primary registration being two less and the registration through other schools being eight less than last year.

The degree of Doctor of Philosophy was conferred on eleven candidates, and the degree of Master of Arts was consummary ferred on fifteen candidates during the year. The of Degrees records of these candidates and the titles of their Awarded dissertations and essays will be found in the report of the Registrar.

The average number of years, for these candidates, elapsing between the time of attainment of the first degree and the time of attainment of the higher degree is 5.9 for the Doctors and 3.3 for the Masters; the shortest and longest intervals being respectively 3 and 12 for the former and 1 and 10 for the latter.

With this decennial report it appears fitting to present the following brief table showing the number of degrees conferred upon candidates on recommendation of the Faculty for each of the years since its organization.

| Degree | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | Totals |
|--------|------|------|------|------|------|------|------|------|------|------|--------|
| A.M    | 2    | 7    | 4    | 14   | 10   | 27   | 19   | 24   | 25   | 15   | 147    |
| Ph.D   | 3    | 3    | 6    | 3    | 4    | 8    | 14   | 9    | 8    | 11   | 69     |

TABLE SHOWING NUMBER OF DEGREES CONFERRED

The "John Tyndall Fellowship for the Encouragement of Research in Physics," which is awarded on recommendation Work of of the head of the Department of Physics, was John Tyn- held during the year by Bergen Davis, Ph.D., Codall and lumbia University, 1901, and this fellowship was Barnard re-awarded to him for the ensuing year. Dr. Davis is pursuing advanced work in experimental physics at the University of Göttingen. An account in abstract of an important investigation on "The Motion of Ions in a Varying Magnetic Field," in which he is engaged, is published in *Science*, N. S., Vol. XV, No. 387. It is of interest to note that in this research Dr. Davis has been able to apply the extremely delicate methods which he perfected in his studies of vibrating gases in the Department of Physics at Columbia.

The "Barnard Fellowship for Encouraging Scientific Research," which is awarded by joint action of the Faculties of the College, the Schools of Applied Science, and the School of Pure Science, has been held during the year by John Alexander Mathews, Ph.D., Columbia University, 1898; and this honor was again conferred upon him for the ensuing year. He has continued his researches in metallurgy at Columbia under the general direction of Professor Henry M. Howe. Dr. Mathews has held also during the year the Carnegie Research Scholarship of the Iron and Steel Institute of Great Britain; and his metallurgical investigations published during the year have won for him from that Institute a gold medal, which was awarded in May, 1902.

Five candidates for the higher degrees held University Fellowships in the School during the year. Of these, William Austin Cannon, in Botany, has pursued extended Work of researches in hybridization, completing work for University Fellows the doctorate at the end of the year, the title of his dissertation being "Studies in plant hybrids." Austin Flint Rogers, Fellow in Mineralogy, has likewise completed work for the doctorate. He has made a special study of crystallography, culminating in a series of papers entitled "Crystallographic studies" for his dissertation. His abilities in this and other lines of work have led to his appointment to the position of Tutor in Mineralogy in the University for the coming year. Mr. Walter Stanborough Sutton, Fellow in Zoölogy, has completed an extended and successful investigation on the early history of the germ-cells in the Orthoptera, vielding results having an important bearing on problems in cellular biology, such as the determination of sex and the mechanics of cell-division. Mr. Satoru Tetsu Tamura, who, as a first alternate, became Fellow in Mechanics, in addition to the courses he has pursued in Mechanics, Physics, and Chemistry, has given special attention to the theory of errors

and the mathematico-physical theories of meteorology. He has presented a seminar paper in each of the latter subjects during the year. Mr. Charles Partridge Weston, Fellow in Mechanics, has made a detailed investigation of the principal division errors of the White Bronze Meter of the Department of Mechanics. This work, involving many thousand observations with a cathetometer of precision and extensive calculations in application of the theory of adjustments, was made the subject of an essay for the Master's degree. Mr. Weston's efficiency in Astronomy and Geodesy, pursued as a minor subject, has led the Department of Astronomy to secure his aid in the work of the Summer School of Astronomy and Geodesy.

Work of There were eleven University Scholars in the University School during the year, namely: Scholars

| NORRIS CALEB BAILEY, B.S.,         | Mathematics,          |
|------------------------------------|-----------------------|
| ARTHUR HORACE BLANCHARD, C.E.,     | Mechanics,            |
| CHARLES BROOKOVER, A.B., M.S.,     | Zoölogy,              |
| CLAUDE RUSSELL FOUNTAIN, A.B.,     | Mathematics,          |
| FRANK ALBEE GIFFIN, A.B., A.M.,    | Mathematical Physics, |
| Edward Clark Hood, A.B.,           | Zoölogy,              |
| Douglas W. Johnson, B.S.,          | Geology,              |
| CHARLES WILLIAM STODDART, A.B.,    | Chemistry,            |
| Julia Catherine Stimson, A.B.,     | Zoölogy,              |
| LEWIS ADDISON YOUTZ, Ph.B., Ph.M., | Chemistry,            |
| CHARLES ZELENY, B.S., M.S.,        | Zoölogy.              |

Of these, Messrs. Bailey and Blanchard completed the requirements for the Master's degree, and Mr. Youtz, who was a student at the University during the previous year, completed the requirements for the doctorate. Mr. Brookover, in addition to his course work, has been engaged in a research on the circulatory system of Chlamydoselachus. Mr. Fountain made noteworthy progress in his studies, and by reason of the recommendations of the Department of Mathematics he was awarded a Scholarship for the ensuing year, which he declined in order to accept an appointment as Assistant in Physics in the University. Mr. Giffin, with the approval of the departments concerned and the Faculty, changed his major subject from Mathematics to Mathematical

Physics and took up the study of the retarding effect of water on metallic spheres falling through it. The experimental part of this research, which furnishes for the first time data of a high order of precision, was completed at the end of the year. These data and their discussion and interpretation will be presented by Mr. Giffin in a doctorate dissertation. The work of Mr. Hood was confined chiefly to the requirements of the lecture and laboratory courses of his major and minor subjects. Mr. Johnson served as an efficient assistant to Professor Kemp in field work for the U.S. Geological Survey in the Adirondack region during the summer of 1901. He was granted a leave from the University May 1, 1902, in order to pursue independent geological investigations in the field, in New Mexico. His zeal and abilities led to his appointment to a University Fellowship for the ensuing year. Mr. Stoddart, in addition to his prescribed work, prepared a paper read before the Columbia University Chemical Society, Dec. 9, 1901. The work of Miss Stimson was confined to the pursuit of the laboratory and lecture courses of her selection. Mr. Zeleny completed and published the results of an investigation on "A case of compensatory regulation in the regeneration of annelids." His progress in this and other researches has led to his appointment to the John D. Jones Scholarship of the Wawepex Society for the present summer.

For a nearly complete record of the publications of the members of each departmental staff for this academic year. reference is made here to the University Quarterly Publicafor September, 1902. It may suffice, therefore, in tions and this connection, to remark that these publications Investigations embrace, in addition to numerous addresses, reviews, and briefer investigations, several volumes and memoirs of original contributions to science. Of investigations nearing completion or in progress, as shown by departmental reports to the Dean, it would be impracticable to give an adequate 'summary here, since no one may pretend to a competent knowledge of the twelve different branches of science represented in the School of Pure Science. It may be said, however, that this work, which must be regarded as the

most important as well as the most arduous work of a graduate school, has been carried on to the full extent of the time and facilities available to the departments.

The Department of Botany reports important accessions of photographs illustrating special phases of plant growth and plant ecology, and a large collection of ma-Departmental Ac- terial, preserved mainly in formalin, illustrating the stages of development in a series of typical cessions and Needs plants. These additions have been secured chiefly through the labors of Dr. C. C. Curtis, of the departmental staff. The equipment of the Department of Physics has been increased by several pieces of apparatus constructed by the members of the departmental staff. The Department of Zoölogy likewise reports enlarged collections of microscopical and embryological preparations, and valuable additions of illustrative material collected by Professor Bashford Dean in Japan and in the Philippines.

Since special reports on departmental needs have been submitted recently, it is unnecessary to enlarge on them here. It is sufficient to state that they are in some cases already urgent and in all cases worthy of careful consideration in the progressive interests of the School.

In addition to the many semi-popular addresses and lectures given by members of the Faculty before scientific and aca-Lectures demic bodies during the year, it seems proper to and note especially the lecture on "The Cause of an Addresses Ice Age," given by Sir Robert Ball, January 10, 1902, and the remarkable series of lectures given during March, 1902, by Professor Jacques Loeb on "The Dynamics of Living Matter." This series will be published in book form shortly as one of the Columbia University Biological Series.

On the occasion of the recent visit of Lord and Lady Kelvin to this city, the scientific societies of America united to tender them a reception, which was held in the gymnasium of the University April 21, 1902. As the late Barré de Saint-Venant was called by common consent "The Dean of Elasticians," so we may fitly call Kelvin "The Dean of Physicists," for he has been a

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leader in all branches of physical science for more than a half-century. It was a source of pleasure, therefore, to the members of the academic staff, and especially to those of us devoted to the mathematico-physical sciences, to unite in this spontaneous tribute of regard for the admirable life and labors of this eminent man of science.

In response to a recommendation of the Faculty, voted at its meeting of April 25, 1902, the Trustees at their meeting of June 2, 1902, assigned Professors John F. Assign-Woodhull, Richard E. Dodge, Francis E. Lloyd, ments to and David Eugene Smith, of the Faculty of Teach- the Faculty ers College, to seats in the Faculty of Pure Science.

Very respectfully submitted,

R. S. WOODWARD,

Dean.

# REPORT OF THE DEAN

## FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

To the President of Columbia University in the City of New York,

Sir:

The academic year 1901-1902 in Barnard College has shown an increase of 47 students over the registration of the previous year. Of this increase 46 students were in the regular classes, where growth is most desirable. Although the scholarship of special students is even more strictly safeguarded than that of regular students, still any irregularity in course must detract from the chief benefit of a college, its power to inculcate a broad general culture. It is, therefore, fully in accord with the ideal of the administration that there should be 14 fewer students in special courses; this decrease is more than made good by an increase of 16 students in the list of candidates for a higher degree at Columbia University pursuing minor subjects at Barnard College.

The Freshman class consists of 98 students, of whom 69 were admitted on examination, 8 in full on Regents' Aca-**Registra-** demic Diplomas, 9 on a combination of examination and certificate, and 4 by transfer from other colleges. Of these students 57 were admitted under one or more conditions, 37 have already removed all entrance conditions by the quality of their scholarship in Freshman courses, 24 have examinations yet to take before promotion, and 3 have been dropped from the roll of the class.

By transfer from other colleges 28 students have been added to the registration list, 5 of whom were admitted to the Senior class, 2 to the Junior, 5 to the Sophomore, and 4 to the Freshman class, and 12 as special students. Two students were admitted by examination to advanced standing, one to the Junior and one to the Sophomore class. The general registration figures will show in comparison with the statistics of the preceding year that the geographical distribution of students has varied little from that of last year. Until we can erect a permanent dormitory to take the place of Fiske Hall, which will hereafter be required for academic purposes, we shall expect a slight decrease of patronage from a distance. The effect of this upon college life will be most detrimental, as a wider horizon is given every student by the diversity of experience possessed by her associates. We must develop a dormitory system, and draw students from a distance in order to make impossible that most unlovely form of provincialism,-the provincialism of a great city.

The College has lost 21 students during the year: 1 transferred to another college; 18 withdrew for family reasons, and 1 was dropped from the roll of the College for unsatisfactory scholarship. The Junior class lost by sudden death one of its especially beloved members, Jessie Kaufmann. By her will she left her library to the College. Her parents have established a permanent memorial to her in founding a competitive scholarship, to be awarded upon the merits of the entrance examinations to a student who has no relative able to help her financially. This scholarship will be held for the entire course unless forfeited under the general rules of the College.

The amount of the Fiske Graduate Scholarship has been placed at the disposal of the Dean for the aid of needy students. This change was made by the Trustees, Scholarwith the approval of the donor, because of the re-ships moval of women graduate students from the jurisdiction of Barnard College under the new contract between the University and the College. For several years the Committee of the Trustees on Scholarships have assumed the responsibility of soliciting the \$1800 required annually to provide for twelve Student Scholarships. This has necessitated great effort on their part, and grows more onerous each year. The Committee has therefore started a Scholarship Endowment Fund, by which it hopes soon to place the provision for these scholarships upon a secure financial basis, and to render the annual solicitation of gifts for this purpose unnecessary.

This movement toward the endowing of scholarships is quite in line with the general purpose of the Trustees to make the proper endowment of all departments of the Endow-College their next work,-knowing, as they do, ment that the College cannot rely much longer upon the generous annual gifts which the early friends of the enterprise have had the public spirit and local pride to give. A small beginning toward a general endowment had already been made when Mr. John D. Rockefeller's offer to duplicate all gifts which the friends of the College would make before a given date, up to the limit of \$250,000, gave fresh incentive to the effort. By the tireless devotion of the Treasurer, Mr. Geo. A. Plimpton, the desired sum was raised. Although it does not show in many new courses or in widely extended equipment, it gives security to the financial management of the College, and helps largely towards an assured endowment fund.

A wholesome expansion has been shown in the courses of study. In many departments the normal annual growth has been provided for either by modifications of exist-New ing courses, or by entirely new ones. The Depart-Courses ment of Economics has had its Faculty quite fundamentally reorganized, and a corresponding rearrangement of courses has followed. The new course in Economic Readings will give an opportunity for critical study of the social teachings of Carlyle, J. S. Mill, Kingsley, Ruskin, and T. H. Green, and also of the recent development of economics in England; an opportunity which will be eagerly improved by the many students who look forward to lives of active interest in settlement and philanthropic work. The field study of family groups has been greatly extended and dignified into a separate course, Sociology 16, which offers opportunity for the direct study of our local institutions for social betterment in New York City.

In no department has more needed extension of courses been made than in that of biology. Through the generosity of friends of the College, a physiological laboratory has been equipped, and a thorough course in physiology is for the first time opened to the students. This will provide most satisfactorily for the scientific instruction in the subject; but Barnard College will be far from meeting its full privilege towards its students until it can furnish the allied courses in practical hygiene and in physical training. A certain responsibility for the health of our students is little felt because of their residence in their own homes. But a year of careful observation has convinced me that students in a country college can never need systematic physical development so much as these city girls who spend so much time in the cars with no exercise and little pure air.

When this physical need is met, the next in importance is in the Department of Art. To-day no woman can claim a wellrounded general culture unless she knows the history and principles of art criticism, and it is greatly **Needed** hoped that this department, especially essential for cultured women, may be established in the near future. It also seems advisable to provide for the history of philosophy and for anthropology in such a manner that they may be open to qualified Juniors, and thus make a much fuller course in philosophy available for such students as show peculiar aptitude for that subject.

Mingled with genuine and deep regret at the loss of our dormitory life for the coming year, there exists a pleasure at the added facilities which the Fiske Hall of Science Fiske Hall will furnish. New and larger laboratories in genof eral and organic chemistry, new physical laborato-Science ries, adequate lecture-, office-, and supply-rooms,-all indicate the new departmental enthusiasm with which the increasing numbers of students will be cared for. The rearrangement of rooms gives us also four large lecture-rooms of seating capacity equal to that of the Theatre-that is, sufficient for the largest classes. This means that history courses will now have proper provision for maps, English courses for blackboards, and that the Theatre may be reserved for its legitimate uses. The evils of overcrowding which have embarrassed us during the past year are happily at an end for the present.

The year which has just closed has shown most satisfactory

conditions of scholarship and of public sentiment in the student body. The needs which we see before us are those produced by gratifying development. We trust that our many proved friends, and new friends not yet known, may feel it an opportunity to serve their own community by meeting these Their urgency would seem to be in the order in which needs. they are mentioned: (1) land in the immediate vicinity of our present buildings, before it increases further in value; (2) a dormitory to give a nucleus for college social life; (3) a students' building for the physical needs of over four hundred students who spend about five hours a day on the college grounds; (4) general endowment to assure the already incurred annual budget; (5) special endowments to provide new facilities in physical training, history of art, biblical literature, archæology, and philosophy.

With pleasure in reporting to you such satisfactory progress during the year, I remain, Mr. President,

Very respectfully yours,

LAURA DRAKE GILL, Dean of Barnard College.

# DEAN'S REPORT

# BARNARD COLLEGE

#### FINANCIAL STATEMENT

### 1901-1902

#### RECEIPTS

| Schedule I.<br>DIVIDENDS.<br>INTEREST. | \$14,380 00<br>1,041 55 | \$15,421  | 55  |
|--|-------------------------|-----------|-----|
| UNDERGRADUATE FEES:                    |                         |           |     |
| Matriculation                          | 265 00                  |           |     |
| Examination                            | 130 00                  |           |     |
| Biology                                | 95 00                   |           |     |
| Diploma                                | 735 00                  |           |     |
| Breakage                               | 78 31                   |           |     |
| Tuition                                | 45,854 68               |           |     |
|  |                         | 47,157    | 99  |
| FISKE HALL FEES:                       |                         |           |     |
| Rent from rooms                        | 8,482 50                |           |     |
| Board of students                      | 10,484 18               |           |     |
| Lunch-room                             | 2,024 95                |           |     |
| Guests                                 | 2,047 95                |           |     |
| Telephone service                      | 174 00                  |           |     |
| Summer Session, 1901                   | 3,295 81                | 26,509    | 20  |
| LOANS                                  |                         | 16,000    | 39  |
| MISCELLANEOUS SOURCES                  |                         | 625       |     |
| MISCELLANEOUS SOURCES                  |                         | 5         | - 5 |
| GIFTS FOR DESIGNATED PURPOSES:         |                         |           |     |
| Scholarships:                          |                         |           |     |
| Veltin School Alumnæ Scholarship       | 150 00                  |           |     |
| Graham School Scholarship              | 150 00                  |           |     |
| Mrs. Donald McLean Scholarship         | 150 00                  |           |     |
| Students' Scholarships                 | 1,550 00                |           |     |
| Physiological Laboratory               | 300 00                  |           |     |
| Hartley House Fellowship               | 300 00                  |           |     |
| Equipment of Zoölogical Laboratory     | 110 00                  |           |     |
| Department of Zoölogy                  | 100 00                  |           |     |
| American School for Classical Studies  |                         |           |     |
| at Rome                                | 100 00                  |           |     |
| Chorus                                 | 250 00                  |           |     |
| Salaries                               | 50 00                   |           |     |
| Department of Botany                   | 30 00                   |           |     |
|  |                         | 3,240     |     |
| GIFTS FOR CURRENT EXPENSES             |                         | 3,000     | 00  |
| Total income for immediate use         |                         |           |     |
| (carried forward)                      |                         | \$111,953 | 98  |
|  |                         |           |     |

| 0.1.1.1   |  |              |
|---|--|--------------|
| Schedule II.  |  |              |
| Brought forward   |  | \$111,953 98 |
| GIFTS FOR PERMANENT PURPOSES:   |  |              |
| Eliza Taylor Chisholm Memorial  |  |              |
| Scholarship   | \$3,000 00   |              |
| Scholarship Fund:   |  |              |
| Miss Slade \$3,000  |  |              |
| Mr. Bowles Colgate 1,000  |  |              |
| Mrs. H. M. Sanders 1,000  |  |              |
| Mrs. Wm. Moir 1,000   |  |              |
| Miss M. Billings 500  |  |              |
| Miss E. Billings 500  |  |              |
| Mrs. Seth Low 250   |  |              |
| Mrs. H. Parsons 100   |  |              |
| Mrs. Woodhouse 100  |  |              |
| Mrs. Dorman 100   |  |              |
| Mrs. Murray 100   |  |              |
| Mr. Wm. Colgate 100   |  |              |
| Mrs. Todd 50  |  |              |
| Miss Brown 30   |  |              |
| Mrs. Wann 25  |  |              |
| Subscribers 20  | = <sup>9</sup> == 00   |              |
| Endowment Fund:   | 7,875 00   |              |
|   | - 0  |              |
| Mr. J. D. Rockefeller   | 189,300 00   |              |
| Anonymous, through President  | ******   |              |
| Butler  | 50,000 00  |              |
| Anonymous<br>Mrs. M. F. Collard   | 30,000 00  |              |
| Mr. William Ziegler   | 12,000 00  |              |
| Mr. Jacob H. Schiff   | 10,000 00<br>10,000 00   |              |
| Anonymous.  | 5,000 00   |              |
| Mrs. Jabez Bostwick   | -  |              |
|   | 5.000 00   |              |
| Mr. Frederic B. Jennings.   | 5,000 00   |              |
| Mr. Frederic B. Jennings<br>Mr. Isaac Guggenheim  | 5,000 00   |              |
| Mr. Isaac Guggenheim  | 5,000 00   |              |
|   | 5,000 00<br>5,000 00<br>5,000 00   |              |
| Mr. Isaac Guggenheim<br>Mr. John D. Archbold<br>Miss M. W. Bruce  | 5,000 00   |              |
| Mr. Isaac Guggenheim<br>Mr. John D. Archbold<br>Miss M. W. Bruce<br>Mr. J. Henry Smith  | 5,000 00<br>5,000 00<br>5,000 00<br>5,000 00   |              |
| Mr. Isaac Guggenheim<br>Mr. John D. Archbold<br>Miss M. W. Bruce  | 5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>5,000 00   |              |
| Mr. Isaac Guggenheim<br>Mr. John D. Archbold<br>Miss M. W. Bruce<br>Mr. J. Henry Smith<br>Mr. William K. Vanderbilt   | 5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>5,000 00                                     |              |
| Mr. Isaac Guggenheim<br>Mr. John D. Archbold<br>Miss M. W. Bruce<br>Mr. J. Henry Smith<br>Mr. William K. Vanderbilt<br>Mr. Felix Warburg  | 5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>2,500 00                         |              |
| Mr. Isaac Guggenheim<br>Mr. John D. Archbold<br>Miss M. W. Bruce<br>Mr. J. Henry Smith<br>Mr. William K. Vanderbilt<br>Mr. Felix Warburg<br>Mr. Mortimer L. Schiff                                      | 5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>2,500 00<br>2,500 00                         |              |
| Mr. Isaac Guggenheim<br>Mr. John D. Archbold<br>Miss M. W. Bruce<br>Mr. J. Henry Smith<br>Mr. William K. Vanderbilt<br>Mr. Felix Warburg<br>Mr. Mortimer L. Schiff<br>Mrs. Seth Low                     | 5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>2,500 00<br>2,500 00<br>2,500 00             |              |
| Mr. Isaac Guggenheim<br>Mr. John D. Archbold<br>Miss M. W. Bruce<br>Mr. J. Henry Smith<br>Mr. William K. Vanderbilt<br>Mr. Felix Warburg<br>Mr. Mortimer L. Schiff<br>Mrs. Seth Low<br>Miss Mabel Slade | 5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>5,000 00<br>2,500 00<br>2,500 00<br>2,000 00<br>2,000 00 | \$111,953 98 |

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| Brought forward             | \$362,675 | 00 | \$111,953 | 98 |
|-----------------------------|-----------|----|-----------|----|
| Mr. G. S. Bowdoin           | 1,000     |    |           |    |
| Mr. Seth Milliken           | 1,000     | 00 |           |    |
| Mrs. William H. Osborn      | 1,000     | 00 |           |    |
| Mr. James Loeb              | 1,000     | 00 |           |    |
| Mr. Hicks Arnold            | 1,000     | 00 |           |    |
| Mr. Edward W. Sheldon       | 1,000     | 00 |           |    |
| Mr. William A. Read         | 1,000     | 00 |           |    |
| Mr. S. R. Guggenheim        | 1,000     | 00 |           |    |
| Mrs. A. E. Wood             | 1,000     | 00 |           |    |
| Mr. William C. Whitney      | 1,000     | 00 |           |    |
| Mr. William C. Schermerhorn | 1,000     | 00 |           |    |
| Miss S. Rhinelander         | 1,000     | 00 |           |    |
| Mr. J. T. Terry             | 1,000     | 00 |           |    |
| Mr. H. P. Wertheim          | 1,000     | 00 |           |    |
| Mr. L. A. Heinsheimer       | 1,000     | 00 |           |    |
| Mr. James Talcott           | 1,000     | 00 |           |    |
| Mr. William Salomon         | 1,000     | 00 |           |    |
| Miss Caroline P. Stokes     | 1,000     | 00 |           |    |
| Miss Olivia E. P. Stokes    | I,000     | 00 |           |    |
| Mr. Franklin B. Lord        | 1,000     | 00 |           |    |
| Mr. Abram S. Hewitt         | 1,000     | 00 |           |    |
| Mr. Louis C. Tiffany        | 1,000     | 00 |           |    |
| Mr. James Eastman           | 1,000     | 00 |           |    |
| Mrs. Frederick F. Thompson  | 1,000     | 00 |           |    |
| Mr. James Stillman          | 1,000     | 00 |           |    |
| Mr. S. D. Babcock           | 1,000     | 00 |           |    |
| Mrs. Charles B. Alexander   | 1,000     | 00 |           |    |
| Mr. A. R. Flower            | 500       | 00 |           |    |
| Mr. J. L. Riker             | 500       | 00 |           |    |
| Mrs. M. J. Plant            | 500       | 00 |           |    |
| Mr. Francis Lynde Stetson   | 500       | 00 |           |    |
| Mr. Kalman Haas             | 500       | 00 |           |    |
| Mrs. R. T. Auchmuty         | 500       | 00 |           |    |
| Mr. H. H. Benedict          | 500       | 00 |           |    |
| Mr. E. Thalman              | 500       | 00 |           |    |
| Mrs. J. C. Hoagland         | 500       | 00 |           |    |
| Mr. S. Guggenheim           | 500       | 00 |           |    |
| Mrs. Adrian H. Joline       | 250       | 00 |           |    |
| Mr. James G. Wentz          | 250       | 00 |           |    |
| Mr. Philip Lehman           | 250       | 00 |           |    |
| Mr. Edward Wassermann       | 250       | 00 |           |    |
| Mrs. Julius Beer            | 250       | 00 |           |    |
| Anonymous                   | 200       | 00 |           |    |
| Mrs. Melvil Egleston        | 200       | 00 |           |    |
| Carried forward             | \$396,325 | 00 | \$111,953 | 98 |

| Brought forward             | \$396,325 | 00 | \$111,953 98 |
|-----------------------------|-----------|----|--------------|
| Mr. John F. Dillon          | 200       | 00 |              |
| Mrs. S. V. Harkness         | 100       | 00 |              |
| Mrs. N. E. Baylies          | 100       | 00 |              |
| Mr. F. S. Flower            | 100       | 00 |              |
| Mrs. D. H. McAlpin          | 100       | 00 |              |
| Brooklyn Barnard Club       | 100       | 00 |              |
| Mrs. O. B. Potter           | 25        | 00 |              |
|                             |           |    | 397,050 00   |
| Total receipts for the year |           |    | \$509,003 98 |

## 1901–1902

### DISBURSEMENTS

| GENERAL PURPOSES:                     |            | *                  |
|---------------------------------------|------------|--------------------|
| Business Administration               | \$1,900 00 |                    |
| Educational Administration            | 69,944 01  |                    |
| Care of Buildings and Grounds         | 10,884 75  |                    |
| ELLA WEED LIBRARY:                    |            | \$82,728 76        |
| Salaries                              | 400.00     |                    |
| Purchase of books, repairs, and inci- | 400 00     |                    |
| dentals                               | 350 62     |                    |
|                                       |            | 750 62             |
| AID TO STUDENTS :                     |            | 15                 |
| Scholarships:                         |            |                    |
| Students' Scholarships                | 1,950 00   |                    |
| Lucile Pulitzer Scholarship           | 150 00     |                    |
| Jennie B. Clarkson Scholarship        | 150 00     |                    |
| Ella Weed Scholarship                 | 150 00     |                    |
| Brearley School Scholarship           | 150 00     |                    |
| Emily James Smith Scholarship         | 150 00     |                    |
| Anna E. Barnard Scholarship           | 150 00     |                    |
| E. T. Chisholm Memorial Scholar-      |            |                    |
| ship                                  | 150 00     |                    |
| Peebles and Thompson's School         |            |                    |
| Scholarship                           | 150 00     |                    |
| The Graham School Scholarship         | 150 00     |                    |
| Trustees Competitive Entrance         |            |                    |
| Scholarship                           | 150 00     |                    |
| Veltin School Alumnæ Scholarship      | 150 00     |                    |
| Mrs. Donald McLean Scholarship        | 150 00     |                    |
| Fellowship:                           |            | 3,750 00           |
| Hartley House Fellowship              |            | 300 00             |
| Prizes:                               |            | 300 00             |
| Kohn Mathematical Prize               | 50 00      |                    |
| Herrman Botanical Prize               | 50 00      |                    |
| Balance of income from L. Pulitzer    | 5          |                    |
| Scholarship                           | 270 00     |                    |
|                                       |            | 370 00             |
| SCIENTIFIC DEPARTMENTS:               |            |                    |
| Department of Botany                  | 600 28     |                    |
| Department of Chemistry               | 852 92     |                    |
| Department of Physics                 | 478 59     |                    |
| Department of Zoölogy                 | 698 73     | 2 6 2 2 4 2        |
| FEES RETURNED TO STUDENTS             |            | 2,630 52<br>512 19 |
| Corried formeral                      |            |                    |
| Carried forward                       |            | \$91,042 09        |

| Brought forward                       |            | \$91,042 09  |
|---------------------------------------|------------|--------------|
| UNDERGRADUATE INSTRUCTION AT:         |            |              |
| Columbia University                   | \$2,576 00 |              |
| Teachers College                      | 1,364 00   | ~            |
|                                       |            | 3,940 00     |
| FISKE HALL:                           | 6          |              |
| Salaries and wages                    | 6,915 51   |              |
| Food                                  | 102,42 14  |              |
| Heat and light                        | 2,994 18   |              |
| Contingent expenses                   | 1,801 79   |              |
| Summer Session, 1901                  | 2,528 86   |              |
| MISCELLANEOUS:                        |            | 24,482 48    |
| Loans paid                            | 38,500 00  |              |
| Equipment of Zoölogical Laboratory.   |            |              |
| 1.                                    | 1,511 35   |              |
| Interest charges                      | 857 22     |              |
| Fiske Hall: Alterations               | 210 92     |              |
| American School for Classical Studies |            |              |
| at Rome                               | 100 00     |              |
| INVESTMENTS:                          |            | 41,179 49    |
| Eliza Taylor Chisholm Memorial        |            |              |
|                                       | 2,760 00   |              |
| Scholarship                           |            |              |
| Endowment Fund                        | 298,262 22 | 301,022 22   |
|                                       |            | 301,022 22   |
| Total expenditures                    |            | \$461,666 28 |
| Difference brought forward            |            |              |
| between overdraft 9,269 02            |            |              |
| and cash on hand, July 1,             |            |              |
| 1901 183 87                           |            |              |
|                                       | 9,085 15   |              |
| Cash on hand, July 1, 1902:           | <u> </u>   |              |
| Fund to cover deficiency              | 38,252 55  |              |
|                                       |            | 47,337 70    |
|                                       |            |              |

\$509,003 98

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# TEACHERS COLLEGE

## REPORT OF THE DEAN

#### FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

# To the President of Columbia University in the City of New York,

Sir:

I have the honor to submit the following report of the work of Teachers College for the academic year, 1901-02.\*

The total enrollment for the year has been 2451 persons, of whom 709 were students in College, 900 were extension students, and 842 were pupils in the Horace Mann Enrolland Speyer Schools. These numbers are an in- ment crease over last year of 20% in college students, 32.6% in extension students, and 20% in school pupils. Of the College students, 222 were college graduates, 77 had had a partial college course, and 191 were normal school graduates before entering Teachers College. The graduates of secondary schools who entered the professional courses because of having had special technical training or experience in teaching, numbered 165.

These facts exhibit strikingly the recent growth of the College. Five years ago only 30 students were college graduates and only one of these was a regular student pursuing a course leading to a diploma. During the same period the number of students with previous normal training has grown from 6 to 191, while the number of students admitted to special

\* The reports of the Superintendent of Schools and of the Librarian, the Registrar, and the Treasurer are printed separately, and may be had on application to the Secretary of Teachers College. courses because of irregular preparation has fallen from 61 to 52.

The following table shows the attendance during the past five years:

|  | 1897–98   | 1898–99    | 1899–00    | 1900 <b>-0</b> 1 | 1901–02      |
|--|-----------|------------|------------|------------------|--------------|
| Resident Students<br>Regular Students<br>Special and Irregu- | 169<br>72 | 335        | 454<br>347 | 593<br>419       | 709<br>535   |
| lar Students   | 97        | 122        | 107        | 174              | 174 .        |
| Teachers College<br>Schools<br>Horace Mann<br>Schools        | 395       | 534<br>534 |            | 702<br>639       | 842<br>752   |
| Speyer School  |           |            |            | 63               | - <u>9</u> 0 |
| Extension Students .   | 299       | 1173       | 750        | 679              | . 900        |
| Total  | 863       | 2042       | 1830       | 1974             | 2451         |

Table Showing Registration from 1897 to 1902

The total class registration in regular College courses has been 2833, as against 2542 in the previous year. There were Class Reg- offered during the year under review 40 courses in Education which were attended by 1276 students istration and 72 courses in other departments attended by 1626 students. Moreover, 58 courses in Columbia University and 42 courses in Barnard College were attended by 126 and 81 Teachers College students, respectively. Approximately 45 per cent. of the total class registration were in the courses in Education, 32 per cent. being in the general courses in the history and philosophy of Education, educational psychology and the theory and practice of teaching. Two courses in biology, two in English, three in French and German, two in history, one in mathematics, and two in physics and chemistry, were closely allied to similar courses given in other departments of the University, but only those in French

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and German were strictly parallel. The remaining academic courses, sixty in all, have no parallel in any other University department. Less than three per cent. of the work, therefore, can be said to duplicate work done elsewhere in the University; and the excuse for giving these courses is that in each one a sufficient number registered to form a complete section, thereby making it both more convenient and more economical to give the instruction in Teachers College.

So rapid has been the growth in the general education courses that it has been deemed advisable for administrative purposes to break up the division of education into five departments—the history and philosophy of education, educational administration, educational Education psychology, elementary education, and secondary education. A new professorship has been established in secondary education, and an additional instructor or assistant has been appointed to each of the other departments.

There is no need to speak in this connection of Dr. Julius Sachs, the new professor of secondary education. His eminent services to secondary education, both as a teacher and adviser, are well known and fully appreciated the country over. He offers three courses for the ensuing year: (I) A general course in the theory and practice of secondary education at home and abroad; (2) a course of investigation of secondaryschool curricula; and (3) a seminar for graduate students.

The most significant legislation of the year has been the revision of the courses of instruction and the regulations for graduate work. For some time it has been Revision of felt that the two distinct types of students in Courses Teachers College—college graduates and normal-school graduates-could not do their best work in the same classes. The normal students have a lower academic standing, but from their training and practical experience they are stronger in all their professional work. The college graduates, on the other hand, are capable of pursuing exhaustive investigations, but frequently break down in the practical work of teaching and school management. The Faculty has resolved, therefore, to offer in each department a series of carefully graded courses extending over three, four, or five years. At

least one course in each department is introductory to all others in that group and must be completed before the student will be admitted to the more advanced and more specialized work. Thus, certain courses are open only to juniors and seniors, others to seniors and graduates, and still others to graduates only. The graduate courses are of two kinds: practica and seminars. A practicum is a course intended for investigation within a limited field. It aims to extend the general knowledge of the subject, already acquired by the student in an introductory course, by means of lectures, collateral reading, experimentation, and discussion, to familiarize him with what others have done or are doing in the field, and through the preparation of a report or essay to acquaint him with approved methods of critical investigation. Every candidate for a Master's degree or diploma is required to take at least one, and every candidate for a Doctor's diploma or degree at least two, of these courses. Candidates for the Doctor's diploma or degree are also required to take without credit at least one seminar, and in connection therewith to prepare a dissertation which shall give evidence of original investigation and research. A seminar presupposes a practicum, and a practicum presupposes one or more introductory courses in the same department. Students desiring to take an advanced course must first satisfy the requirements of the prerequisite courses by examination or by giving evidence of the completion of substantially equivalent courses elsewhere. With the approval of the Committee on Graduate Students, an instructor may permit a student who is deficient in a prerequisite course to pursue that course parallel with the more advanced course.

The changes in the courses of instruction, above mentioned, led naturally to a revision of the courses of study especially those courses specially intended for graduate students. The standard for admission as a graduate student was fixed at the completion of an undergraduate professional course in Teachers College or an equivalent collegiate and professional education obtained elsewhere in an approved institution of learning. The result is that students of similar training and ability are treated alike. The fact of college graduation in academic courses only does not confer the privilege of graduate rank in Teachers College, any more than in a school of medicine or law.

The practical difficulties of administering any other plan are obvious. For example, Teachers College has for several years granted a "secondary diploma" to all students New completing the course prescribed for teachers in Diplomas secondary schools. The academic requirement for admission was a baccalaureate degree and three years of specialization in the subject which the candidate intended to teach, but by an agreement with Columbia and Barnard Colleges their seniors might enter the course. The result was that in any one class might be found seniors with no experience in teaching, graduates with mature scholarship but inexperienced as teachers, and graduates who were both able scholars and fine teachers. It need not be said that it was found to be extremely difficult, not to say impossible, to keep such a class together and do satisfactory work. Hence, following the revision of the courses of instruction, it was resolved to designate all diplomas granted for undergraduate work Bachelor's diplomas, meaning thereby the completion of a course four years in advance of the high school. The next step was to provide, in lieu of the old "secondary" and "higher" diplomas, a Master's diploma and a Doctor's diploma, signifying the completion of a graduate course of at least one and two years, respectively. The advantage of this nomenclature is that its significance is at once apparent to any one familiar with university terminology. Moreover, the scheme provides for really graduate work in every department and makes the arrangement and gradation of courses of instruction of practical account.

The statistics of the past year show very positive growth in the graduate courses and in the professional courses of the junior and senior years. In view of increasing Collegiate demands in all departments, it is an open question Course whether the collegiate course of the freshman and sophomore years should longer be maintained. The course was introduced in 1893 in order to prepare students more effectively for the professional studies of the junior and senior years.

In 1898, by a regulation requiring candidates for the secondary diploma to present a baccalaureate degree for admission, or in lieu thereof to take the prescribed course leading to the degree of Bachelor of Arts in Columbia College or Barnard College, all students who intended to fit themselves for teaching in secondary schools were ruled out of the collegiate course in Teachers College. This regulation made the course introductory only to the professional courses which lead to diplomas in kindergarten and elementary teaching and in teaching the special subjects of domestic art, domestic science, fine arts, and manual training. Experience shows that some such provision is necessary to encourage college students to enter upon teaching in the elementary schools. Every inducement has been made to students of Columbia and Barnard Colleges to take up courses in Teachers College other than those leading to secondary teaching, but without success. During the past five years 168 students of Barnard College have been enrolled in Teachers College; 79 of them have been candidates for the secondary diploma, but not one has undertaken any other course. This, too, in face of the well-known difficulty in securing positions in secondary schools and of the extraordinary demand for work in elementary schools and for teachers of technical subjects. The reasons are not far to seek. It is to be expected, in the first place, that students who have spent from eight to ten or twelve years in preparatory school and college will be inclined to continue in an academic atmosphere. They are not inclined to teach young children or to take up work in technical subjects with which they have had no acquaintance. In the second place, the degree of specialization which is encouraged, if not actually demanded, in our modern colleges, makes it difficult for the college graduate to fit himself for teaching in any other than secondary schools. The elementary teacher must be prepared in English, history, civics, mathematics, physics, chemistry, botany, zoölogy, physiology, geography, drawing, music, and (in the lower grades, at least) manual training through work with wood, iron, clay, and tex-From this array of subjects, not to mention the theory tiles. and practice of teaching, educational psychology, school law,

and the history and principles of education on which candidates for elementary positions are invariably examined before certification by our leading city school authorities, it is apparent that the average college graduate is poorly equipped for such work. Not all of these subjects are customarily taught in the American college, and when they are, such subjects as music and drawing are rarely presented in such a way as to make them of value to the elementary teacher. Moreover, the regular subjects of the college curriculum are so specialized that a student may find it necessary to spend two or three years in a single department in order to cover the field even in a general way. In the subject of history, for example, the elementary teacher should know something of the history of Greece and Rome, of mediæval Europe, and of modern England and America. To do this in any satisfactory manner, the Columbia or Barnard student should take courses amounting to at least twelve hours. In like manner, the college student who would fit himself for nature study in elementary schools must take five or six science subjects in his college course. This requirement alone means twenty to twenty-four credits in science out of a total of sixty credits in the entire college course. And if to this be added the credits required in foreign languages, higher mathematics, philosophy, and political economy, and other subjects which are properly considered desirable electives, it will be seen that it is practically impossible to combine a liberal college course and a professional course designed to fit teachers for elementary schools.

The theoretical solution of the problem obviously is the addition of a professional course to the college course, making in all a course of five or six years in length; but practically this is no solution at all. The economic conditions in the field of public elementary education do not warrant such a period of preparation. The only feasible plan is to shorten the college course, or omit it entirely. The latter plan is that adopted in normal schools throughout the country. It has its advantages, but its disadvantages are equally obvious. The collegiate course in Teachers College is an attempt to shorten the college course by omitting certain subjects altogether and by giving other courses shorter or more comprehensive than are usually offered in college. Thus the intending elementary teacher may secure in two or three years a fairly liberal preparation in academic subjects and still be able after four years' work to meet the usual professional requirements.

From a purely academic standpoint such a course is not the equivalent of a four-year collegiate course, but it is the full equivalent of the present Columbia course when the senior year is devoted to law, medicine, or applied science. But it may be objected on the ground of the shorter and more comprehensive courses which make up the Teachers College curriculum that the liberal training is less intensive and therefore less valuable. The only answer to this charge is that for the work which Teachers College students must do, the broader academic training is worth more than the collegiate training so characteristic of the present day. Specialization has its place, but specialization should follow rather than accompany or precede the more liberal training. In our work, the specialization comes late in the course, and is largely confined to the department of education. In this way Teachers College combines academic and professional courses, both extensive and intensive, to make them worthy of the University degree of Bachelor of Science in Education.

Teachers College needs all its resources for the support of its professional and graduate work, and it would welcome any plan whereby a high-school graduate could secure two years of liberal training in Columbia College or Barnard College without being required to conform to the present regulations for the degree of Bachelor of Arts. Such a two-year course could doubtless be designed and administered in a manner that would make it of great service to all the professional schools of the University. But it is imperative that such a course be complete in itself and that the student, when he begins his professional work, pass over entirely to the jurisdiction of the professional school. The most serious drawback to the present arrangement whereby a senior may combine collegiate and professional study, at least so far as concerns Teachers College, is that the student's interests are divided and his success correspondingly impaired. If professional study is worth doing at all, it is worth doing well.

In my last report I referred to the burden imposed upon my office by the correspondence relating to the appointment of teachers. During the present year the volume Appointof this correspondence has greatly increased, but ment Coma very satisfactory plan has been devised for mittee handling it. In October, 1901, the President designated as University Committee on Appointments to college positions in education and to positions in normal schools, secondary schools, elementary schools, and kindergartens, Dean Russell, chairman, and Professors Dutton, Kemp, McMurry, Smith, and Trent. The Committee organized early in the year and adopted a scheme of procedure which has greatly reduced the demands which have heretofore been made on the corps of instructors. According to this plan, no open letters are given to students, but instead the secretary of the Committee sends to any school officer who makes inquiry for teachers, or, on the request of candidates for particular positions, a complete set of confidential statements concerning the candidate's ability as estimated by his instructors. These communications are marked "confidential," and the request is made that they be returned to the sender-under no circumstances given to the candidate. In this way it is hoped that full justice will be done all candidates and that those seeking Columbia students for teaching positions will secure precisely the information they most need. The success of this first year's work of the Committee is largely due to its secretary, Miss I. L. Pratt, who has been untiring in her efforts to serve the interests of our students and at the same time to secure the confidence of local school authorities. She reports that during the twelve months ending September 15, 1902, she has received direct requests for 580 teachers, as against 320 during the previous year. The number of positions to which our students have been appointed or to which they have returned after leave of absence is 201, distributed as follows:

| Colleges and Universities        | 14  |   |
|----------------------------------|-----|---|
| Normal Schools                   | II  |   |
| Superintendents of Schools.      | 3   |   |
| Supervisors and Special Teachers | 38  |   |
| Secondary Schools                | QI  |   |
| Elementary Schools               | 44  |   |
| Kindergartens                    | II  |   |
| Other Positions                  | 14  |   |
| -                                | 226 |   |
| Less Names Counted Twice         | 2.5 |   |
|                                  | 20  | I |

From a comparison of the above figures it will be seen that the demand has far outrun the supply. Our graduating class this year numbered 148, a few of whom, for personal or family reasons, have not accepted appointments. Nevertheless, 190 appointments have been made, showing that many have left College before the completion of their course. The results of the year show that students who are thoroughly qualified have no difficulty in securing desirable positions, but as heretofore the most insistent demand is for teachers in normal schools, for supervisors and primary teachers, and for special teachers of domestic economy and manual training. During the past year there has been an unexpected call for teachers of mathematics and the natural sciences. In some of these departments the committee has had no one to recommend for four or five months, and that during the period when engagements are usually made.

The increasing demand for teachers of domestic economy in institutions of all grades, from rural schools to colleges, suggests the desirability of strengthening our depart-Domestic ments of domestic art and domestic science. They Economy are now fairly well equipped for the training of special teachers in these subjects, but we have almost no facilities for doing the advanced work which will soon be called for. We need the full time of an instructor for investigation in the chemistry of foods and stimulants, giving special attention to the changes that take place during cooking. Another important field is the production, manufacture, and adulteration of foods. There can be no domestic science until the arts of cooking and food-supply are ably supported by expert knowledge in the field of chemistry and economics. The subject, considered in all its bearings, is so important for the health

and moral well-being of society that I have no hesitation in presenting our problem to the consideration of philanthropic friends. Full justice to these departments requires a new building costing about \$300,000, and about \$10,000 annually for salaries, over and above our present expenditures. The best site for such a building is on 121st Street between the Macy Manual Arts Building and the Horace Mann School, a location peculiarly advantageous in that it would join the new Physical Education Building and make possible a close connection between departments which have as a common aim the promotion of pure and wholesome living.

The practical aspects of education are also apparent in the demand for nature study. Time was-and not so long ago -when the study of the natural sciences in the Nature lower schools was confined for the most part to a Study systematic treatment of plants and animals. So far as specimens were concerned, dead ones were as good as live ones, and a plaster model of more service than either. Of late, however, the stress has been put upon getting a first-hand knowledge of living objects. The processes of growth and development have been zealously followed, and pupils taken out of doors for study rather than to a museum or storehouse. Now some teachers are beginning to see that animals thrive best in a favorable environment, that plants spring up under particular conditions of soil, temperature, and moisture, and that the economic aspects of the subject are of equal importance with the scientific. In short, teachers are beginning to ask for agriculture as a part of a nature-study course. In the great farming districts of the south and west it is highly important that the teachers of natural science should have some familiarity with the science which so directly concerns the great majority of school-children. It serves as the best connecting link between what the pupils bring with them to school and what the teacher would have them carry away as a result of his instruction. Moreover, it is equally important that those who are to spend their lives in agricultural pursuits should have as teachers in their youth those who take an intelligent interest in agricultural problems. It rarely happens that what is treated with respect in the school becomes an object of contempt out of school. My argument takes no account of the question whether agriculture should be taught in the schools or not. That problem will ultimately be solved to the satisfaction of those most interested. But I do say that nature study under a teacher who has no conception of the principles of agriculture and horticulture is only half fitted for his work. I should say the same of the teacher of mathematics who is ignorant of mensuration and mechanics, or of the teacher of literature who cannot himself write English. The ability to make a plant grow and to know why it grows are surely of as great significance from the educational point of view as to know what it is or how to classify it.

Some instruction in the application of the biological and physical sciences to agriculture and horticulture is, in my opinion, a necessary part of the course in nature study as given in Teachers College. A joint course by our present instructors would go far to remedy the defect, but there is need also of a special course in the principles and general practice of agriculture. Practical work in agriculture is impossible and probably, for our purpose, unnecessary during the academic year. But frequent excursions might easily be arranged, and during the summer vacation opportunity could doubtless be given for practical instruction on the farm. In the furtherance of some such plan we may expect the coöperation of the School of Practical Agriculture and Horticulture at Briarcliff Manor, and of its Director, Mr. George T. Powell, who has personally assured us of his share to bring his work into closer touch with ours. The initial expense for lectureship in agriculture and for the necessary excursions ought not to exceed \$1000.

The public school system of this country is justly a pride to all Americans, but we are apt to forget that the founda-Bible tions of our national life and character were laid Study under an educational system which bears little resemblance to that of the present day. The old education may have been defective in many ways, but it secured the active coöperation of home, church, and school to an extent now unknown. The religious element was predominant and the English Bible was the book of life. Children were brought up to obey its precepts, to appreciate its charm, and to speak its language. And from the daily life the Bible permeated the literature and became a part of the records of the age. The controlling cause may have been an unreasoning devotion to a creed and a superstitious fear which are incompatible with our modern freedom of thought, but the fact remains that if we would understand our own history or literature we must know a good deal of the English Bible. That knowledge, it is only too certain, is not forthcoming under present conditions. One of the reasons for the failure is the lack of teachers who themselves know the Bible. We may deplore the wretched work of our Sunday-schools, but nothing better can be expected until better teachers are available.

The great majority of Teachers College students are earnest Christians, and many of them are active workers in Sundayschools. They realize that a better knowledge of the Bible will not only improve their education but that it will also be of assistance to them in their future professional work. Hence when, two years ago, through the generosity of Mr. William E. Dodge, a short course of Bible study was provided, a large number of students immediately seized the opportunity. Last year, by an arrangement with the Union Theological Seminary, a course of one hour a week was given by Dr. Richard Morse Hodge, and although no credit was allowed for such work, the class retained its membership throughout the year. This evidence of genuine interest in the work has led the Faculty to approve of a course on Old Testament History and Literature to be given next year by Dr. Hodge. and to assign it a regular place in the program and a credit of two hours a week towards any diploma or the degree of Bachelor of Science. Students from other departments of the University will be welcome in this class, and so long as no such instruction is given elsewhere in the University, I trust we may be able to provide it in Teachers College. It may in time grow into an important department which will have as its professional aim the improvement of teaching in Sunday-schools. The endowment of a single professorship is all that is needed to begin a work which, so far as I know, has never yet been attempted, but which is greatly needed in the education of American youth.

In my last annual report I mentioned the gift of nine scholarships for the benefit of southern teachers during the year 1901-02. It is a pleasure to say that as a Southern result of this trial and of further study of con-Scholarditions in the south, seventeen scholarships, of the ships annual value of \$300, have been placed at our disposal for next year. The donors are Messrs. John Crosby Brown, V. Everit Macy, George Foster Peabody, and the General Education Board. So many applications were received within thirty days following the announcement of the scholarships that the greatest difficulty was experienced in making a choice of candidates. In this juncture the assistance of Dr. Wallace Buttrick, secretary of the General Education Board, was most timely and effective. As a result, every new appointee is a teacher holding a responsible position in some southern normal school or city school system, from which leave of absence will be granted for the year of study in Teachers College. A more representative group of teachers, embodying the spirit and ambitions of the "New South," could hardly be found anywhere.

I consider it a great compliment that the General Education Board should have given eight scholarships for the express purpose of introducing into the southern states the methods of training teachers which are followed in Teachers College. It bespeaks the confidence of a body of business men who are exerting untold influence upon public education in the south, and at the same time it recalls to us the responsibility which we bear for the proper guidance of education in all parts of the Union. Although it is only three years since we first began to send out graduate students, the list of those who have taken leading positions in normal and training schools and in universities is not insignificant. It includes Adelphi College; Arcot Mission College, Vellore, India; Blairsville College, Pennsylvania; College of the Sisters of Bethany, Topeka, Kansas; Mississippi Agricultural College; Morgan College, Baltimore; Pennsylvania College, Gettysburg, Pa.; Robert College, Constantinople, Turkey; Vassar College; Wellesley College; Clark University; Leland Stanford Jr. University; Ohio University, Athens; Ohio State University, Columbus; University of Illinois; University of Nebraska; University of Utah; University of Missouri; University of West Virginia; University of Colorado, and the following normal and training schools: Collegiate Institute, Kingston, Ontario; Chicago Normal School, Chicago, Ill.; Hampton Institute, Hampton, Va.; Polytechnic Institute, Brooklyn, N. Y.; Packer Collegiate Institute, Brooklyn, N. Y.; Peabody Normal School, Nashville, Tenn.; Pratt Institute, Brooklyn, N. Y.; Northfield Seminary, Northfield, Mass.; State Normal School, Charleston, Ill.; State Normal School, Whitewater, Wis.; State Normal School, Ypsilanti, Mich.; State Normal and Training School, Winona, Minn.; State Normal School, Fredonia, N. Y.; State Normal School, San Diego, Cal.; State Normal School, Athens, Ga.; State Normal School, Brockport, N. Y.; State Normal School, Aztec, New Mexico; State Normal School, Millersville, Pa.; Normal College, New York City; State Normal School, Oshkosh, Wis.; State Normal School, Greeley, Colorado: State Normal School, Cheney, Wash.: State Normal School, Potsdam, N. Y.; State Normal School, Farmville, Va.; State Normal School, Steven's Point, Wis.; Training School for Teachers, New York City; Training School, Albany, N. Y.; The Central Normal School, Lock Haven, Pa.; Washington Normal School, Detroit, Mich.

This list is in part our contribution to the professional training of teachers in America. It represents only three years — and those at the beginning—of what we hope to make an honorable career in the history of education.

The educational administration of the College becomes each year more complex and exacting. Until the past year all matters pertaining to the admission and promotion of students have been handled in the Dean's office, but with the growth of the College mittees it has been found necessary to conduct this business through committees of the Faculty. Two standing committees—one on undergraduate students, the other on graduate students -have shared in the work, and to their patience, tact, and good judgment is due much of the success which has marked the year's administration.

The Horace Mann School has completed its first year in the new building. The change in location, with its attendant reforms in management and necessary adjustments Нотасе to new surroundings, called for mutual forbearance Mann and hearty coöperation of pupils and teachers, School but with wise management by superintendent and principals the year closed with most obstacles and difficulties overcome. The building has been found admirably adapted to its purposes, and the growth of the school already makes necessary the fitting up of a part of the fifth story. During the summer vacation a large hand-work room and a social room for the use of the graduates and high-school pupils will be made ready for occupancy at the opening of the ensuing school year.

The Speyer School is patiently awaiting the completion of its new building, which is promised in December next. This building is even more extensive and Spever elaborate than was first conceived, but by the School generosity of Mr. and Mrs. Speyer the plans as formulated by the architect will be carried out at an additional expense of \$25,000. It is hardly probable that the School can be put into full operation before mid-year, but the new building will afford relief to conditions in the present school that have become well-nigh intolerable. It has been only through the ingenuity and devoted service of Miss Schüssler and her associates that it has been possible to retain the semblance of a school in the utterly inadequate quarters which we have been able to provide.

It is a pleasure to record that a generous friend of the College has given the sum of \$250,000 for the erection and **Physical** equipment of a building for physical education. In **Education** my last annual report the need of such a building **Building** was set forth and since the announcement of the gift the plan as originally outlined has been warmly approved by the press and by educators in all parts of the country. The editor of *The World's Work* has requested permission to publish a leading article on it, saying that he regards it as

one of the most significant contributions to public education in recent years. It is peculiarly gratifying to know that the name of one who has for many years been foremost in his support of liberal education will be linked with a department which, I believe, will be a blessing not only to Teachers College but also to the entire educational system of America.

The total expenditures for the year (except permanent investments) were \$276,432.54, of which \$252,474.47 were for current expenses paid from general funds. The Business total receipts, not including gifts for permanent Adminisinvestment, were \$273,350.77, of which \$86,035 tration were from gifts, \$172,076.63 from earnings, and \$15,230.14 from income of trust funds. The deficiency in the general fund for current expenses amounted to \$60,034, not including \$7,282.77 for extraordinary expenses, as against \$70,980 estimated in the budget. The extraordinary expenses were \$4,000 for money borrowed to close the fiscal year, 1900-01, and \$3,282.77 for interest charges. The donations for general purposes amounted to \$74,135, making necessary a loan of \$10,000 to meet the deficiency in the year's accounts. To this indebtedness must be added \$40,000 due on four lots west of the Macy Building, and \$110,000 expended upon the new heating plant and alterations in the main building necessitated by the removal of the Horace Mann School.

The financial situation is one of mingled regret and gratification. The gifts received during the past year have amounted to \$260,472.40, and \$392,700 have been Gifts and pledged for specific purposes. The most impor-Pledges tant are \$250,000 from a friend and supporter during many years for a Physical Education Building; \$175,800 from Mr. and Mrs. V. Everit Macy for the increase of our endowment funds, and \$98,709.42 for the completion of the Horace Mann School; \$25,000 from Mr. and Mrs. James Speyer for the Speyer School; \$12,500 from Mr. George Foster Peabody for a lot east of the College; \$2,500 from the estate of Mrs. Peter B. Bryson for the endowment of the Tileston Scholarship, and upwards of \$60,000 through our trustees for general purposes. All of these gifts, with a single exception, have come from persons who are or have

been trustees of the College. Indeed, of the \$2,712,823.11 which have been given to the College since its incorporation, all but about \$300,000 have come from trustees or their immediate relatives.

It is a cause for congratulation that those best informed of our work are so ready to support it, but it is to be deeply regretted that the aim of the institution appeals to so few persons of means. In the nature of things our work can never be of a popular character; it arouses little enthusiasm because its results are found only in the good our students may do in future years in widely separated parts of the country. Moreover, our students do not come from wealthy homes, and they are not likely ever to become wealthy themselves; hence, unlike most colleges and professional schools, we can count on no financial support from our alumni. We must appeal, therefore, to philanthropists whose generosity is not limited by sectional or sectarian claims, and who have an abiding faith in the efficacy of education as a means of promoting civic righteousness and social welfare.

The following table shows the income of the College from all sources since its incorporation:

| Years   | Earnings   | Income from<br>Trust Funds                               | Donations<br>for current<br>Expenses<br>and<br>Library                     | Gifts for<br>Endowment   | Gifts for<br>Grounds,<br>Buildings, and<br>Equipment  | Total   |
|---|--|--|--|--|---|---|
| 1889-90<br>1890-91<br>1891-92<br>1892-93<br>1893-94<br>1894-95<br>1895-96 | \$11,351 69<br>16,709 67<br>20,510 89<br>23,414 42<br>26,871 11<br>44,756 13<br>55,837 03  |  | 24,905 00<br>25,437 29<br>25,648 00<br>32,375 00                           | \$ 5,000 00  | \$ 61,203 12†<br>525 00<br>166,000 00<br>312,125 00<br>153,132 50<br>110,978 24<br>228,877 59 | \$105,359 81<br>42,139 67<br>211,948 18<br>361,187 42<br>212,378 61<br>202,134 77<br>353,234 62 |
| 1895-90<br>1896-97<br>1897-98<br>1898-99<br>1899-00<br>1900-01<br>1901-02 | 55,637 03<br>51,924 79<br>66,464 68<br>96,582 57<br>105,149 00<br>132,759 48<br>172,076 63 | \$ 252 50<br>530 00<br>4,266 29<br>8,866 00<br>12,605 82 | 69,451 00<br>66,170 00<br>74,732 00<br>66,536 00<br>93,185 00<br>86,035 00 | 47 25<br>11,795 18<br>121,424 85<br>135,331 07<br>591 69<br>3,042 84 |   | 353,234 02<br>152,747 10<br>269,294 37<br>303,645 02<br>501,282 36<br>403,244 04<br>445,155 84  |
|   | \$824,408 09   | \$26,520 61  | \$707,199 69   | \$277,232 88   | \$1,728,390 54  | \$3,563,751 81  |

STATEMENT OF RECEIPTS SINCE THE INCORPORATION OF **TEACHERS COLLEGE\*** 

\* Receipts from dormitories and supplies are not included. † Including \$30,203.12, estimated value of property transferred by Industrial Education Association. ‡ Income of Ruth and General Loan Funds is added to the principal

of the funds.

The above table discloses at a glance the strength and weakness of the College. The first column indicates that there has been a rapid increase, especially since 1898, in the number of students who are willing to pay a large fee (a larger fee than is paid in any training school for teachers in the world; in this country the great majority of such schools are entirely free) for instruction in Teachers College. A much larger number would annually come to us, were living in New York City less expensive. No more certain testi-Student monial of the deed of such an institution as Teach-Aid ers College could be adduced than in the number and character of its students, who not only bear the high fees and the expense of living in New York but also, in so many cases, the travelling expenses from distant parts of the United States and Canada. Knowing, as I do, the strict economies practised by nearly all our students and the struggles which so many of them make to remain in College throughout their course, I am the more grateful to those friends who have provided us with scholarships, loan funds, and other means of assisting worthy students.

In this connection it should also be noted that Whittier Hall, the new dormitory erected by the Morningside Realty Company, is an important contribution to the resources of the College. It not only provides a Hall good home under almost perfect hygienic conditions, but the rates now in force make it possible for many students to come to New York who could not otherwise do so, and it relieves to a corresponding extent the financial burden of many others. It may not prove a paying investment to the stockholders, but there is no question of its value to Teachers College and Columbia University.

The second column of the above tabulated statement discloses the greatest weakness in the whole financial situation. Income from endowment in 1901-02, \$12,605.82, or less than five per cent. of the current expenses. The earnings of the year, mostly from students' fees, ment were over 68 per cent. of the current expenses. And even if a portion of the receipts from the Horace Mann School be considered as income from invested funds, the fact still remains that the income from endowment is only about onefourth of the donations out of hand, and less than one-fourteenth of the tuition fees from students. The deficiency which must annually be met by special gifts is, in my opinion, far too large for safety. Every year adds to the difficulty of making both ends meet, and every year discloses greater possibilities of usefulness. Great as is the demand for expansion (and in many ways it is almost irresistible), we cannot afford to go more deeply into debt. The earning capacity of the College has increased by \$120,000 within six years, the equivalent of \$3,000,000 invested at four per cent. The most imperative need of the future is an endowment of \$3,-000,000 to duplicate the capital which our students provide. The limit of self-help has practically been reached, but I trust that our progress may not be stayed for lack of such assistance as this record of self-help justifies.

Respectfully submitted,

JAMES E. RUSSELL.

## SUMMER SESSION

### REPORT OF THE DIRECTOR

### FOR THE SESSION OF 1902

## To the President of Columbia University in the City of New York.

Sir:

I desire herewith to present the third annual report of the Summer Session of Columbia University, held from July 7 to August 15, 1902.

The third year of the existence of the Summer Session of the University may be regarded as marking the passage of summer instruction at this institution from the experimental stage to its place as part of the regular and permanent work of the University. That this was recognized by the Trustees is shown by the language of the resolution passed in October, 1900, which gave authority to the President "to make provision for a Summer Session in 1901 and thereafter until otherwise ordered." It may be said in general that the more even distribution of students in the various courses, and the natural and regular conduct of the Summer Session, both on the part of the officers of the institution and the students themselves, have been indicative of a full recognition of an established curriculum.

Owing to the election of the Director of the Summer Session of 1901 to the Presidency of the University, it became necessary to appoint a new member of the Administrative Board. The President appointed Professor James Chidester Egbert, Jr., to serve with himself and Dean Russell of Teachers College.

The work of the Session was, thereupon, arranged upon the plan which proved so satisfactory in the preceding years. The scope of the instruction, however, was considerably enlarged as will be shown in detail below:

Upon the recommendation of the Administrative Board of Officers of the Summer Session, the following persons were Instruction appointed by the President to give instruction at the Summer Session of 1902:

|   | ogy<br>arss, Instructor<br>r, Assistant   | cour    | se |
|---|---|---------|----|
| Edmund Ho<br>Cavalier Har   | <i>vistry</i>   | cours   | es |
| Franklin The<br>Charles Alex<br>John Angus<br>Elizabeth Ca<br>Andrew Whe  | cation  | on      | es |
| Abraham Va<br>William Pete<br>William Ten<br>George Clint<br>Jeannette Bl | ish<br>elentine Williams Jackson, Professor<br>erfield Trent, Professor<br>ney Brewster, Adjunct Professor<br>on Densmore Odell, Adjunct Professor<br>iss Gillespy, Assistant<br>etian Otto Haas, Assistant in Summer Ses | . cours | es |
| Department of Fine  | Arts<br>er Kellogg, Instructor in Summer Session  | I COUR  | se |
| Department of Geogr<br>Richard Elw  | vaphy 2<br>ood Dodge, Professor<br>ra Kirchwey, Assistant   | cours   | es |
| William Add<br>Rudolf Tomb  | an  | cours   | es |
| Arthur Charl  | ry 4<br>les Howland, Instructor<br>son Shotwell, Lecturer   | cours   | es |
| James Chides<br>Nelson Glenr  | ster Egbert, Jr., Professor<br>n McCrea, Adjunct Professor<br>olff, Assistant in Summer Session   | cours   | es |

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| Department of Manual Training<br>Lucy Hess Weiser, Tutor<br>William Horace Noyes, Instructor in Summer Sessio  |   | courses |
|--|---|---------|
| Department of Mathematics<br>James Maclay, Adjunct Professor<br>Cassius Jackson Keyser, Instructor   | 5 | courses |
| Department of Philosophy<br>John Angus MacVannel, Instructor<br>Adam Leroy Jones, Tutor  | 3 | courses |
| Department of Physical Training<br>Watson Lewis Savage, Director<br>Jessie Hubbell Bancroft, Instructor in Summer Sessi<br>Gustav Herrman Bojus, Instructor in Gymnasium<br>Charles Holroyd, Instructor in Gymnasium<br>Minnie Jacobs, Assistant in Summer Session | · | courses |
| Department of Physics<br>William Hallock, Professor<br>Frank Leo Tufts, Tutor  | 4 | courses |
| Department of Psychology<br>Edward Lee Thorndike, Adjunct Professor<br>Adam Leroy Jones, Tutor<br>Joseph Hershey Bair, Assistant in Summer Session   | 4 | courses |
| Department of Romance Languages  | 3 | courses |

These instructors are drawn from the teaching force of the University with the exception of Miss Jessie Hubbell Bancroft, Director of Physical Training Brooklyn (N. Y.) Public Schools; Mr. Andrew Wheatley Edson, Assistant Superintendent of Schools, New York City; Dr. Charles Alexander McMurry, Instructor in the State Normal School, DeKalb, Illinois.

The teaching force of the Session of 1901 numbered 32 instructors and 6 assistants; that of 1902, 38 instructors and 7 assistants. Courses were offered for the first time in Biology and Chemistry, and, as in 1900, in Geography. A number of new courses were given in Education, German, History, Latin, Mathematics, and Romance Languages. The increase in courses in 1901 over those of 1900, was 15; and that of 1902 over 1901 was 18. The following tables show the progress which marks the career of the Summer Session in three years:

| Department  | Courses<br>offered,<br>1900  | Total<br>Enrol-<br>ment,<br>1900                                 | Courses<br>offered,<br>1901 | Total<br>Enrol-<br>ment,<br>1901  | Courses<br>offered,<br>1902  | Total<br>Enrol-<br>ment,<br>1902  |
|---|--|--|-----------------------------|---|--|---|
| Biology<br>Botany<br>Chemistry<br>Education<br>English<br>Frine Arts<br>Geography<br>German<br>History<br>Latin<br>Manual Training<br>Mathematics<br>Philosophy<br>Physical Training<br>Physics<br>Psychology<br>Romance Languages<br>Total | 3<br>5<br>5<br>2<br>1<br>2<br>3<br>1<br>2<br>2<br>2<br>2<br>2<br>1<br>2<br>8 | 28<br>458<br>237<br>59<br>15<br>21<br>73<br>24<br>42<br>40<br>88 |                             | 495<br>238<br>45<br>67<br>71<br>14<br>471<br>58<br>67<br>56<br>55<br>20 | $ \begin{array}{c}     1 \\     5 \\     9 \\     4 \\     1 \\     2 \\     6 \\     4 \\     4 \\     2 \\     5 \\     3 \\     4 \\     4 \\     3 \\     6 \\   \end{array} $ | 21<br>59<br>462<br>174<br>59<br>38<br>101<br>51<br>51<br>72<br>108<br>53<br>88<br>88<br>88<br>88<br>88<br>9<br>51 |
| Total   | 28   | 1085   | 43                          | 1401  | 61   | 1559  |

\* No students registered for the Research Courses in Chemistry and Psychology.

|                 | 1900  |          |      | 1901     |      | 1902     |  |  |
|-----------------|-------|----------|------|----------|------|----------|--|--|
| Biology         |       | _        |      |          |      | 1.34 %   |  |  |
| Botany          | 28    | 2.58 %   | _    |          | _    |          |  |  |
| Chemistry       |       |          | —    |          | 59   | 3.78 %   |  |  |
| Education       | 458   | 42.21 %  | 495  | 35.27 %  | 462  | 29.63 %  |  |  |
| English         | 237   | 21.84 %  | 238  | 16.99 %  | 174  | 11.23 %  |  |  |
| Fine Arts       | · - · | _        | 45   | 3.20 %   | 59   | 3.78%    |  |  |
| Geography       | 59    | 5.43 %   |      |          | 38   | 2.43 %   |  |  |
| German          |       |          | 67   | 4.77 %   | 101  | 6.48 %   |  |  |
| History         | 15    | 1.39 %   | 71   | 5.05%    | 51   | 3.27 %   |  |  |
| Latin           |       |          | 14   | 1.14 %   | 51   | 3.27 %   |  |  |
| Manual Train-   |       |          |      |          |      |          |  |  |
| ing             |       | 1.94 %   | 44   | 3.13%    |      | 4.61 %   |  |  |
| Mathematics     |       | 6.74 %   | 71   | 5.05 %   |      | 6.92 %   |  |  |
| Philosophy      | 24    | 2.21 %   | 58   | 4.13 %   | 53   | 3.39 %   |  |  |
| Physical Train- |       |          |      |          | ,    |          |  |  |
| 1ng             |       | 3.87 %   | 67   | 4.77 %   |      | 5.64 %   |  |  |
| Physics         |       | 3.68 %   | 56   | 4.05 %   |      | 5.26 %   |  |  |
| Psychology      |       | 8.11 %   | 155  | 11.03 %  | 89   | 5.70 %   |  |  |
| Romance Lan-    |       |          |      |          |      | 04       |  |  |
| guages          |       |          | 20   | 1.42 %   | 51   | 3.27 %   |  |  |
|                 |       |          |      |          | ,    |          |  |  |
|                 | 1085  | 100.00 % | 1401 | 100.00 % | 1559 | 100.00 % |  |  |

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In the foregoing tables it appears that the decrease in numbers in Education, English, History, and Psychology is more than counterbalanced by the number attending in such subjects as Chemistry, offered for the first time this year, and in the new courses in German, Latin, Mathematics, and Romance Languages. This certainly indicates, first, that the growth of the Summer Session is due to the increase in courses and the expansion of the curriculum; second, that the subjects selected were well adapted for summer instruction and met the demands of prospective students.

It is also worthy of remark that 59 students have attended Chemistry in its first year, and that Physics has shown a most gratifying increase. The advantages and opportunities which the University with its fine laboratories can offer in scientific work have been recognized and should be placed within the reach of students throughout the year. The results of this year's work justify expansion along the lines of scientific work and in other scientific departments.

The following table shows the courses of instruction in detail and the registration for each course:

## SUMMER SESSION

# COURSES OF INSTRUCTION, 1902

|   |   | E              | nrolme         | nt             |
|---|---|----------------|----------------|----------------|
| Instructor  | Title of Course   | Men            | Women          | Total          |
| Miss Carss and Miss<br>Kupfer                                     | Department of Biology<br>s5. Biological Nature Study<br>Department of Chemistry   | I              | 20             | 21             |
| Dr. Chambers<br>Prof. Miller<br>Dr. Joüet<br>Prof. Miller and Dr. | sA. General Chemistry<br>sB. Teachers' Course<br>s7. Qualitative Analysis   | 25<br>2<br>4   | 8<br>2<br>—    | 33<br>4<br>4   |
| Joüet<br>Prof. Miller   | s19. Quantitative Analysis<br>Research Course   | <u>17</u>      |                | 18             |
|   | Department of Education   | 48             | 11             | 59             |
| Mr. Henderson<br>Dr. MacVannel<br>Dr. McMurry<br>Mr. Edson        | <ul> <li>s1b. History of Education</li> <li>s2. Principles of Education</li> <li>s5. General Method in Teaching</li> <li>s6. School Management and Su-</li> </ul> | 30<br>32<br>14 | 30<br>55<br>29 | 60<br>87<br>43 |
| Dr. McMurry   | pervision<br>s10. Special Method in School  | 29             | 38             | 67             |
| Prof. Baker   | Studies<br>513a. English in Secondary<br>Schools  | 18<br>16       | 64<br>26       | 82<br>42       |
| Prof. Baker   | s14. English in Elementary<br>Schools   | 4              | 45             | 42             |
| Mr. Henderson   | s28. Sources in History of Edu-<br>cation   | 3              | 4              | 7              |
| Miss Carss  | s41. Nature Study in Elementary<br>Schools  | I              | 24             | 25             |
| Prof. Odell, Prof.  |   | 147            | 315            | 462            |
| Brewster, and Miss<br>Gillespy                                    | Department of English<br>sA. Rhetoric and English Com-<br>position  | 13             | 49             | 62             |
| Prof. Jackson   | s15. Anglo-Saxon Literature and<br>Historical English Grammar   | - 3            | 11             | 20             |
| Prof. Jackson<br>Prof. Trent                                      | s19. Shakspere<br>s47. English Literature from  | 12             | 40             | 52             |
|   | 1625 to Close of 17th Century   | 18<br>52       | 22<br>122      | 40             |
| Mr. Kellogg   | Department of Fine Arts<br>\$15. History and Interpretation   | 52             |                | -/4            |
|   | of Art  | 15             | 44             | 59             |
| Prof. Dodge and Miss<br>Kirchwey                                  | s1. General Geography   | 3              | 23             | 26             |
| Prof. Dodge and Miss<br>Kirchwey                                  | s8. Geography of North America  | 1              | 11             | 12             |
|   |   | 4              | 34             | 38             |

## REPORT OF THE DIRECTOR

|  |   | E                           | nrolme                      | ent                              |
|--|---|-----------------------------|-----------------------------|----------------------------------|
| Instructor   | Title of Course   | Men                         | Women                       | Total                            |
| Mr. Hervey and Dr.<br>R. Tombo, Sr.<br>Dr. R. Tombo, Jr.<br>Mr. Hervey<br>Dr. R. Tombo, Jr.<br>Mr. Hervey<br>Dr. R. Tombo, Jr. | Department of German<br>sA. Elementary Course<br>s2. Intermediate Course<br>s3. Literary Course<br>s6. History of German Literature<br>s7. Goethe's Faust<br>s8. Practical Course | 19<br>7<br>8<br>9<br>6<br>1 | 16<br>7<br>9<br>4<br>6<br>9 | 35<br>14<br>17<br>13<br>12<br>10 |
|  | Department of History   | 50                          | 51                          | 101                              |
| Mr. Shotwell<br>Mr. Shotwell   | s1a. Mediæval History<br>s10. Historical Bibliography:  | 7                           | 9                           | 16                               |
| Dr. Howland  | Mediæval and Modern History<br>s38. Discovery and Colonization<br>of America  |                             | 2                           |                                  |
| Dr. Howland  | s39. History of the United States   | 3<br>3                      | 16<br>11                    | 19<br>14                         |
| Drof Fobort  | Department of Latin   | 13                          | 38                          | 51                               |
| Prof. Egbert<br>Prof. Egbert   | s1. The Epigrams of Martial:<br>Roman Life<br>s2. Roman Historical Readings:<br>The Deirre of Nerse The Ar  | 5                           | 7                           | 12                               |
| Prof. McCrea<br>Prof. McCrea   | The Reign of Nero. The An-<br>nals of Tacitus<br>s3. Latin Prose Composition<br>s4. Vergil's Æneid  | 5<br>1<br>4                 | 5<br>15<br>9                | 10<br>16<br>13                   |
| Miss Weiser  | Department of Manual Training<br>51. Manual Training for Lower  | 15                          | 36                          | 51                               |
| Mr. Noyes  | Grades  | 11                          | 33                          | 44                               |
| MI. NOYES  | s2. Wood-working for Elemen-<br>tary Schools  | I 2                         | 16                          | 28                               |
|  | Department of Mathematics   | 23                          | 49                          | 72                               |
| Prof. Maclay<br>Dr. Keyser   | sA. Solid Geometry<br>s3a. Logarithms and Trigonom-   | 17                          | 13                          | 30                               |
| Prof. Maclay and Dr.   | etry  | II                          | 13                          | 24                               |
| Keyser<br>Dr. Keyser<br>Prof. Maclay   | s3b. Advanced Algebra<br>s4. Analytical Geometry<br>s6. Differential and Integral Cal-  | 13<br>9                     | 17<br>8                     | 30<br>17                         |
| j  | culus   | 5                           | 2                           | 7                                |
|  | Department of Philosophy  | 55                          | 53                          | 108                              |
| Dr. MacVannel<br>Dr. Jones   | s1. Introduction to Philosophy<br>s9. Logic: Deductive and In-  | I 1                         | 8                           | 19                               |
| Dr. MacVannel  | ductive<br>s12. Philosophical and Educa-  | I 2                         | I 2                         | 24                               |
|  | tional Practicum  | 7                           | 3                           | 10                               |
|  |   | 30                          | 23                          | 53                               |

## SUMMER SESSION

|  |   | En            | rolme         | ıt             |
|--|---|---------------|---------------|----------------|
| Instructor   | Title of Course   | Men           | Women         | Total          |
| Miss Bancroft  | Department of Physical Training<br>s1a. Physical Training for Ele-<br>mentary Schools: Free Gym-<br>nastics | I             | 10            | 11             |
| Miss Bancroft  | s1b. Physical Training for Ele-<br>mentary Schools: Games,<br>Light-Apparatus Gymnastics                    |               | 16            | 16             |
| <ul> <li>Dr. Savage, Mr. Bo-<br/>jus, Mr. Holroyd,<br/>and Miss Jacobs</li> <li>Dr. Savage, Mr. Bo-<br/>jus, Mr. Holroyd,</li> </ul> | s2a. Practical Gymnastics: Ele-<br>mentary Course   | 10            | 29            | 39             |
| and Miss Jacobs  | s2b. Practical Gymnastics: Ad-<br>vanced Course   | 14            | 8             | 22             |
| Prof. Hallock and Dr.  | Department of Physics   | 25            | 63            | <u>8</u> 8     |
| Tufts<br>Prof. Hallock and Dr.   | s1. General Physics   | 26            | 7             | 33             |
| Tufts<br>Prof. Hallock and Dr.<br>Tufts<br>Prof. Hallock and Dr.   | s1b. Laboratory Methods   | 31<br>6       | 2<br>4        | 33<br>10       |
| Tufts  | Research Course   | 5             | I             | 6              |
|  | Department of Psychology  | 68            | 14            | 82             |
| Dr. Jones<br>Prof. Thorndike<br>Prof. Thorndike<br>Prof. Thorndike   | sA. Elements of Psychology<br>s2. Experimental Psychology<br>s11. Genetic Psychology<br>Research Course     | 14<br>11<br>9 | 34<br>9<br>12 | 48<br>20<br>21 |
|  | Department of Romance Lan-<br>guages  | 34            | 55            | 89             |
| Mr. Loiseaux<br>Mr. Loiseaux   | French<br>sA. Elementary Course<br>s1. Intermediate Course  | 11<br>4       | 14<br>8       | 25<br>12       |
| Mr. Loiseaux   | Spanish<br>s1. Elementary Course  | 7             | 7             | 14             |
|  |   | 22            | 29            | 51             |
| Total number of stu<br>several courses.  | dents receiving instruction in the  | 602           | 957           | 1559           |

In the Department of Education two new courses were offered, one in School Management and Supervision, the other in Sources in the History of Education. The first of these, under the direction of Mr. Edson, has been attended by 67 students, and has been a most valuable course.

The three new courses in German were, History of German Literature, Goethe's Faust, and Practical Course. They were attended by 35 students.

The new course in History, with 19 students, was entitled, Discovery and Colonization of America.

In Latin four new courses were given, the two supplanting those of last year being on Martial and Tacitus. The course in Latin Prose Composition has been attended by 16, and that in Vergil's Æneid by 13 students.

The Department in Mathematics offered new courses in Solid Geometry, attended by 30 students; and in Analytical Geometry, attended by 17 students.

The Department of Romance Languages offered an elementary course in French,—attended by 25 students, and an elementary course in Spanish attended by 14 students.

With the exception of the Department of Education, all those offering new courses have shown a marked increase in the number of students.

As to the character of the work it may be said that there is no body of students connected with the University that shows more sincere devotion and greater earnestness of purpose. The instructors are enthusiastic in their commendation of their students, whose work they class in many instances with that of the post-graduates of the University: while, on the other hand, the students express in no uncertain words their great satisfaction with the curriculum and the instruction they receive.

The total number of students enrolled at the Summer Session of 1902 was 643, a gain of 63, or 10.82%, over the registration of 1901, and a total gain of more than 54% over the registration of 1900. As the total number of students enrolled in the several courses was 1559, the average number of courses taken was 2.42, as compared with 2.41 in 1901, and 2.6 in 1900. In the table given below the number of students taking one or more courses is shown. It should be said, however, that special permission for taking more than two courses was not required in Fine Arts and in certain courses in Physical Training, hence the number indicated below as taking three courses is larger than the number of those who were granted an additional course as a special privilege:

| Students | taking | I | course  | ••••  | <br>    |       | • • | • • |     |    | 57  | 57   |
|----------|--------|---|---------|-------|---------|-------|-----|-----|-----|----|-----|------|
| " "      | " "    | 2 | courses | ••••• | <br>    |       |     |     |     |    | 283 | 566  |
| " "      | " "    | 3 | "       | ••••  | <br>    | •••   |     |     |     |    | 276 | 828  |
| 66       | "      | 4 | "       | ••••• | <br>••• | • • • |     | • • | ••• | •• | 27  | 108  |
|          |        |   |         |       |         |       |     |     |     | -  |     |      |
|          |        |   |         |       |         |       |     |     |     |    | 643 | 1559 |

In no instance was a student allowed to take four courses unless the additional, or fourth, course, was either that in Fine Arts or one in Physical Training.

The previous academic training of the student-body at the Summer Session is shown in the following table:

|   | Gradu-<br>ates of |         | Partial<br>Courses<br>in |         | Total |          |
|---|-------------------|---------|--------------------------|---------|-------|----------|
| Colleges                                  | 181               | 28.15 % | 89                       | 13.84 % | 270   | 41.99 %  |
| Professional Schools<br>for Teachers      | 205               | 31.88 % | `69                      | 10.73 % | 274   | 42.61 %  |
| Other Secondary or<br>Higher Institutions | бі                | 9.49 %  | 9                        | 1.40 %  | 70    | 10.89 %  |
|   | 447               | 69.52 % | 167                      | 25.97 % | 614   | 95.49 %  |
| No Secondary or<br>Higher Training        |                   |         |                          |         | 29    | 4.51 %   |
|   |                   |         |                          |         | 643   | 100.00 % |

From this table it is seen that although 4.51% of the 643 students are classed as having no secondary or higher training, which is an increase of 2.6% over the number of 1901, the number with collegiate training has increased 6.71%, and a slight

increase appears in the number of students from professional schools for teachers, which has always been gratifyingly large.

Emphasis should be laid upon the fact that of the total enrolment only 4.51% could not be classed as having had some training in secondary schools or in institutions for higher education. The question has been asked whether the University would encourage students, making good deficiencies in preparatory work, to attend courses of the Summer Session. In view of the facts just mentioned, it is clear that the courses offered by the University at its Summer Session must be of a high character so as to be appropriate for the great body of its students. If this is maintained, the question of the attendance of deficiency students becomes simply a question as to their fitness to carry on and profit by the various courses.

The following table affords a basis of comparison between the students at the Summer Session of 1901 and those at the Summer Session of 1902, with regard to their previous academic education:

|  | 1901 | 1902 |
|--|------|------|
| Graduates of Colleges                                | 152  | 181  |
| Partial Courses in Colleges                          | 53   | 89   |
| Graduates of Professional Schools for Teachers       | 216  | 205  |
| Partial Courses in Professional Schools for Teachers | 27   | 69   |
| Graduates of other Secondary or Higher Institutions. | 82   | 61   |
| Partial Courses in other Secondary or Higher In-     | ,    |      |
| stitutions.  | 38   | 9    |
|  | 568  | 614  |
| Having no Secondary or Higher Training               | I I  | 29   |
|  | 579  | 643  |

Instruction at a Summer Session fills a unique place in the educational system, for it is given at a time when those ordinarily engaged in teaching have opportunity to study under trained educators. This is recognized and appreciated, for the large majority of the students in attendance are teachers. The following table shows the kind or grade of educational work in which the 491 students who are teachers are engaged:

| Elementary Schools              | 286 | 44.48 %   |
|---------------------------------|-----|-----------|
| Secondary Schools               | 02  | 14.31 %   |
| Higher Educational Institutions | 32  | 4.98 %    |
| Normal Schools                  | 24  | 3.73 %    |
| Superintendents                 | 2   | .31 %     |
| Special Teachers                | 6   | .93 %     |
| Teachers in Private Schools     | 49  | 7.62 %    |
| -                               |     | 76.36 %   |
|                                 | 491 | 70.30 %   |
| Not Engaged in Teaching         | 152 | 23.64 %   |
|                                 | 643 | 100.00 %  |
|                                 | 043 | 100.00 /0 |

Students Classified according to Teaching Positions

Of the 643 students at the Summer Session of 1902, 415, or 64.54%, entered the University for the first time. Those previously matriculated in the University numbered 228, or 35.46%, while of this number 132 were in attendance at the Summer Session of 1900 or that of 1901.

#### Students Classified as Old and New

| Previously Matriculated in the University 228<br>New Students 415 | 35.46 %<br>64.54 % |
|---|--------------------|
| 642   | 100.00 %           |
| 043   | 100.00 /0          |

Because of a prevalent opinion that very few men attend the summer session of a university, it is interesting to consider the following table, which shows that of the 643 students in attendance, 252 are men, *i. e.*, about 40%:

### Students Classified according to Sex

| Men 114<br>Women 303 | 1900<br>27.34 %<br>72.66 % | 1901<br>153 26.68 %<br>426 73.32 % | 1902<br>252 39.19 %<br>391 60.81 % |
|----------------------|----------------------------|------------------------------------|------------------------------------|
| 417                  | 100.00 %                   | 579 100.00 %                       | 643 100.00 %                       |

In the following table a classification is made which shows the distribution of the student-body over the country and the number coming from foreign lands:

| North Atlantic Division:         |          | 1901 |                |     |     |             | 1903 |          |
|----------------------------------|----------|------|----------------|-----|-----|-------------|------|----------|
| Maine<br>Ve <del>r</del> mont    | _        |      |                |     |     | 2<br>I      |      |          |
| Massachusetts                    | 9        |      |                |     |     | 9           |      |          |
| New Hampshire                    | 2        |      |                |     |     | <i>_</i>    |      |          |
| Connecticut                      | 6        |      |                |     |     | 2 I         |      |          |
| New York: Outside New            |          |      |                |     |     |             |      |          |
| York City. 50                    |          |      |                |     | 60  |             |      |          |
| New York City:                   |          |      |                |     |     |             |      |          |
| Manhattan<br>and the             |          |      |                |     |     |             |      |          |
| Bronx 236                        |          |      |                | 241 |     |             |      |          |
| Brooklyn . 85                    |          |      |                | 67  |     |             |      |          |
| Queens 16                        |          |      |                | 19  |     |             |      |          |
| Richmond. 10 347                 | 397      |      |                | 14  | 341 | 401         |      |          |
| Now Iorgon                       | ~ .      |      |                |     |     | ~ 7         |      |          |
| New Jersey<br>Pennsylvania       | 54<br>17 | 485  | 83.77 %        |     |     | 71<br>26    | 531  | 82.58 %  |
| 1 childy i valida                | -/       | 403  | -3.11 /0       |     |     | _           | 331  | 02.30 /0 |
| South Atlantic Division:         |          |      |                |     |     |             |      |          |
| Marvland                         | 7        |      |                |     |     | 9           |      |          |
| District of Columbia             | 7        |      |                |     |     | 4<br>6      |      |          |
| Virginia.                        | 4        |      |                |     |     |             |      |          |
| North Carolina<br>South Carolina | 2<br>I   |      |                |     |     | 4<br>2      |      |          |
| Georgia                          | 8        |      |                |     |     | 8           |      |          |
| Florida                          | -        | 29   | 5.00 %         |     |     | I           | 34   | 5.29 %   |
|                                  | —        | -    |                |     |     |             |      |          |
| South Central Division:          |          |      |                | 1   |     |             |      |          |
| Kentucky                         | I        |      |                |     |     | 2           |      |          |
| Tennessee<br>Alabama             | 8        |      |                |     |     | 2           |      |          |
| Mississippi                      | _        |      |                | 1   |     | ĩ           |      |          |
| Louisiana                        |          |      |                |     |     | _           |      |          |
| Texas                            | 3<br>6   |      |                |     |     | 5           |      |          |
| Arkansas                         | I        |      |                |     |     | -           |      |          |
| Oklahoma                         | I        | 20   | 3.46 %         |     |     |             | 10   | t.54 %   |
| North Central Division:          |          |      |                |     | Ç.  | _           |      |          |
| Ohio                             | 5        |      |                |     |     | 13          |      |          |
| Indiana                          | 3        |      |                |     |     |             |      |          |
| Illinois                         | 2        |      |                |     |     | 7<br>6      |      |          |
| Michigan                         | I        |      |                |     |     | 5<br>3<br>- |      |          |
| Wisconsin                        | 3        |      |                |     |     | 3           |      |          |
| Minnesota<br>Iowa                | 4        |      |                |     |     | _           |      |          |
| Missouri                         | 11       |      |                |     |     | 18          |      |          |
| Nebraska                         | 2        | 34   | 5.88 %         |     |     | I           | 53   | 8.24 %   |
|                                  | _        |      |                |     |     | -           |      |          |
| Western Division:<br>Montana     | I        |      |                |     |     | I           |      |          |
| Colorado                         | 2        |      |                |     |     | 5           |      |          |
| Utah                             | ĩ        |      |                |     |     | 3           |      |          |
| Washington                       | _        |      |                |     |     | I           |      |          |
| California                       | 4        | 8    | 1.38 %         |     |     | 2           | I2   | 1.87 %   |
| Canada                           |          | I    | 17 0/          |     |     |             | 1    | .16 %    |
| Cuba                             |          | I    | .17 %<br>.17 % |     |     |             | -    | .10 /0   |
| Peru                             |          | -    |                |     |     |             | I    | .16 %    |
| Scotland                         |          | I    | .17 %          |     |     |             | -    |          |
| China                            |          |      | -              |     |     |             | I    | .16 %    |
|                                  |          | 579  | 100.00 %       |     |     |             | 643  | 100.00 % |
|                                  |          |      | 225            |     |     |             |      |          |
|                                  |          |      | -              |     |     |             |      |          |

Students Classified according to Residence

It is noticeable here that the great majority of the students come from the States of the North Atlantic Division, but the proportion has been gradually decreasing, inasmuch as it stood 88% in 1900, 83.77% in 1901, and 82.58% in 1902. Twenty-nine states, one territory, and three foreign countries have representatives.

The course of public lectures given during the Summer Session of 1901 proved of so much value and interest to the **Public** students that a similar course was arranged for the **Lectures** Summer Session just closing. These were held on Tuesday and Thursday afternoons of each week. Five were upon scientific subjects, and four were of a literary character. On July 17th the students enjoyed the privilege of listening to a most interesting address by Dr. Michael Ernest Sadler. The lecturers for the Summer Session of 1902 were Professors Rees and Perry, and from the staff of instructors, Professors Dodge, Hallock, Jackson, Thorndike, and Trent, and Dr. Keyser and Mr. Shotwell.

The following list gives the lectures in detail with their subjects and the attendance upon each:

| Atten  | dance |
|--|-------|
| July 8—Professor William Hallock,                    |       |
| Electrical Waves and their Application in Wireless   |       |
| Telegraphy. (Illustrated)                            | 102   |
| 10—Professor John Krom Rees,                         |       |
| The Sun: A Study of its Surface and Surroundings.    |       |
| (Illustrated)  | 110   |
| 15—Dr. Cassius Jackson Keyser,                       |       |
| What is Space in Four Dimensions?                    | 160   |
| 17-MICHAEL ERNEST SADLER, A.M., LL.D., Director of   |       |
| Special Inquiries and Reports, Education Office,     |       |
| London, England,                                     |       |
| Some Points of Contrast in the Educational Situa-    |       |
| tion in England and America                          | 170   |
| 22—Professor William Peterfield Trent,               |       |
| The Teaching of Literature                           | 160   |
| 24-Professor Abraham Valentine Williams Jackson,     |       |
| The Early Drama of India, with Parallels from        |       |
| Shakspere  | 160   |
| 29—Professor Richard Elwood Dodge,                   |       |
| Life Conditions in a Desert, with especial Reference |       |
| to Southwestern United States. (Illustrated)         | 165   |
|  |       |

| July 31—Professor Edward Delavan Perry,         |     |
|---|-----|
| Rambles in Greece. (Illustrated)                | 140 |
| Aug. 5-Professor Edward Lee Thorndike,          |     |
| The Evolution of the Human Mind                 | 100 |
| 7—Mr. James T. Shotwell,                        |     |
| A New Science? Recent Changes in the Subject of |     |
| History   | 120 |

In addition to the above, Professor Hallock and Dr. Tufts, of the Department of Physics, gave six lectures, with demonstrations, as supplementary to their own work and of general interest to the students of the Summer Session. These were upon the following subjects:

| Prof. HALLOCK $\begin{cases} a. \\ b. \\ c. \end{cases}$ | Waves in Matter, Sound.<br>Visible Waves in the Ether, Light.<br>Invisible Waves in the Ether, Radiant Heat and<br>Electric Waves.                |
|--|---|
| Dr. Tufts $\begin{cases} a. \\ b. \\ c. \end{cases}$     | The Structure of Matter, or the Physical Mole-<br>cule.<br>The Relation of Electricity to Matter, or the Ion.<br>Radiant Matter and the Electron. |

Another excellent feature of last year's Summer Session, the excursions to historical sites and to the museums of New York, was repeated this year. These excursions were conducted by Mr. George S. Kellogg of Teachers College. The number of students taking advantage of the opportunity thus offered was much larger than last year, and the interest and enjoyment were very marked.

|         | Excursions of 1902                               | Number of<br>Students |
|---------|--|-----------------------|
| July 12 | . West Point, N. Y                               | . 75                  |
|         | . Tarrytown and Sleepy Hollow                    |                       |
| 26      | Seabright, N. J                                  | 37                    |
| Aug. 2  | Metropolitan Museum of Art                       | . 80                  |
| 9       | . American Museum of Natural History, and the Ne | w                     |
|         | York Zoölogical Park and Botanical Museum        | in                    |
|         | Bronx Park                                       | . 40                  |
| 16      |  |                       |

Mr. Kellogg has also given two evenings in the week to about 35 students who have desired to study the art collection in the Metropolitan Museum of Art more thoroughly than was possible in a hurried visit of one day.

### FINANCIAL REPORT

Balance

| Balance from Summer Session<br>Balance from Summer Session | of 1900 (<br>of 1901 ( | see Annual Report)<br>see Annual Report)              | \$2,236 39<br>4,680 24 |
|--|------------------------|---|------------------------|
|  | \$6,916 63             |   |                        |
| 1901   | Inco                   | <i>me</i> 1902  |                        |
| A. Tuition fees. 580 * @ \$25                              | \$14,500               | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |                        |
| B. Matriculation   | 2,080                  | 418 @ 5 2,090 00                                      |                        |
| fees416 @ 5<br>C. Gymnasium                                | 2,000                  | 418 @ 5 2,090 00                                      |                        |
| fees @ 5   | 555                    | 122 @ 5 610 00  |                        |
|  | \$17,135               | \$18,754 17   |                        |
| Less fees returned   | 145                    | 181 68  | 18,572 49              |
|  | \$16,990               | \$18,572 49   |                        |
|  | Expen                  | lituros   | \$25,489 12            |
| A. Administration:   | Dapen                  |   |                        |
| 1. Advertising —   |                        | —   |                        |
| 2. Clerical Ser-<br>vices\$196                             | 73                     | \$178 50  |                        |
| 3. Postage and   | 15                     |   |                        |
| Express 313<br>4. Printing 662                             |                        | 84 14<br>966 69                                       |                        |
| 5. Stationery and  | -                      |   |                        |
| Incidentals 139  | 27                     | 131 00  |                        |
| \$1,311  | 8 <b>0</b>             | \$1,360 33  |                        |
| B. Instruction:<br>1. Salaries9,020                        | 00                     | 11,830 00   |                        |
| 2. Supplies 220  | 64                     | 216 21  |                        |
| 3. Public Lectures 100                                     | 00 ·                   | 50 00   |                        |
| \$9,340  | 64                     | \$12,046 71   |                        |
| C.1 Buildings and<br>Grounds:                              |                        |   |                        |
| a. Columbia Uni-   |                        |   |                        |
| versity:<br>1. Water Rates 167                             | 00                     | 299 90  |                        |
| 2. Gas and Elec-   |                        | -99 90  |                        |
| tricity 78   |                        | 130 93<br>578 00                                      |                        |
| 3. Fuel 374<br>4. Cleaning 50                              |                        | 56 20   |                        |
| 5. Superinten-   | <u></u>                | 118 00  |                        |
| 6. Labor and At-   | 00                     |   |                        |
| tendance 642   | 28                     | 918 36  |                        |
| 7. Service at Lec-<br>tures 33                             | 00                     | 33 00   |                        |
| 8. Entertainment<br>in Gymnasium —                         | _                      | 25 00   |                        |
| in Gymnasiani  |                        |   |                        |
| b. Teachers College 200                                    |                        | \$2,159 39<br>300 00                                  |                        |
|  |                        |   |                        |
| \$1,657  | 32                     | \$2,459 39  | \$15,866 43            |
| Total \$12,309   | 76                     | \$15,866 43   |                        |
|  |                        | Balance   | \$9,622 69             |

\* One student paid tuition fee without registering. This explains the discrepancy between the financial returns (for 580 students) and the number registered (579) for the year 1901.

The first item in the financial report shows the balance credited to the Summer Session under the authority of the Trustees, and includes the unexpended balance of income from the Summer Session of 1900 and that of 1901. The second item indicates the income of the Summer Session of 1902. less the amount (\$181.68) returned to students who, for various reasons, were compelled to withdraw after payment of fees, together with a comparative statement of the income of 1901. The income from fees for the Summer Session of 1902 was \$18,754.17, reduced by fees returned (\$181.68) to \$18,-572.40. The third item shows the expenditures for the Summer Session of 1902 compared with those of the preceding year. The expenditures of 1002 amount to \$15,866.43, as against \$12,309.76 for 1901. The balance for the Summer Session of 1902 is \$2,706.06, which, with the balance of the preceding years, amounts to \$0,622.60, credited to the Summer Session account.

The increase in the expenditures under the heading Buildings and Grounds is due to the opening of the laboratories and to the more general use of the swimming pool and shower baths.

|                |          | 901 |      | 1902        |          |     |               |
|----------------|----------|-----|------|-------------|----------|-----|---------------|
|                | Total    |     |      | Per<br>pita | Total    |     | Per<br>Capita |
| Administration | \$1,311  | 80  | \$2  | 26          | \$1,360  | 33  | \$ 2 II       |
| Instruction    | 9,340    | 64  | 16   | IO          | 12,046   | 7 I | 18 73         |
| Buildings and  |          |     |      |             |          |     |               |
| Grounds        | 1,657    | 32  | 2    | 86          | 2,459    | 39  | 3 82          |
| _              | \$12,309 | 76  | \$21 | 22          | \$15,866 | 43  | \$24 66       |

The average fee paid by each student in 1902 was \$28.88, against \$29.36 of 1901. The excess of receipts over expenditures, per capita, in 1900 was \$5.76; in 1901, \$8.14; and in 1902, \$4.21. These figures indicate the readiness shown on the part of the University to increase the advantages offered to summer students when it is recognized that an ever increasing number are desirous of studying under the direction of the University, even with a loss of the usual vacation.

The increase in the number of students attending summer sessions at various universities is shown in the following table. It may be said that there is now widespread recognition of their importance in the general educational scheme:

|                       | 1900 | 1901 | 1902 |
|-----------------------|------|------|------|
| California University |      | 790  | 830  |
| Columbia University   | 417  | 580  | 643  |
| Cornell University    |      | 423  | 546  |
| Harvard University    | 784  | 766  | 737  |

It is a most valuable guide in forming plans for the future development of the Summer Session to compare the results of the plans for the present year with the suggestions found in the report of the Director of last year. In that report the statement was made that "it would be entirely safe to plan a Summer Session on the hypothesis that there will be an attendance of 600 students, paying an average fee of \$29.25, or \$17,550 in all." The actual attendance was 643, and the average fee \$28.88 + or \$18,572.49.

The suggestion was made that "courses be offered in Chemistry and Geography, and the number of courses in French, History, Latin, and Mathematics be increased." This plan of expansion was carried out in every particular, and has proved entirely successful. In fact, there is evidence that the increase in numbers is due largely to the increase in courses.

For the future, then, we may reasonably look for a gradual increase in the number of students, if the opportunities for study are increased along lines which have been laid down for this year. The experience of the present session justifies a gradual extension of scientific work, and courses in Geology and Mineralogy would be appreciated. I would also recommend courses in Political Economy and Civil Government. It would be helpful to students in Physical Training if elementary courses were given in Anatomy and the Physiology of Exercise, which would prepare them for what is in reality advanced work in that subject.

It is especially important that the courses of any one year should be so planned as to be supplementary to those of the preceding year. Thus, in illustration, students who have taken elementary Anglo-Saxon should have an opportunity for further study in this subject. It appears to be entirely possible to construct a curriculum for Summer Sessions so that students deprived of opportunities of study during the winter may, by attending in the summer, in successive years, pass through a complete and consistent course of study. There is also much encouragement for the extension of summer courses in subjects which would appeal particularly to those who desire advanced or post-graduate work.

Finally, there is much that may be done to make the student realize that he is a student of the University. A curriculum which would lead to regular attendance for a series of years; also an arrangement looking to the gathering of all the students for literary or social purposes, would be helpful in the attainment of this end.

Respectfully submitted,

James C. Egbert, Jr.,

Director.

August 15, 1902.

## LIBRARY

### REPORT OF THE LIBRARIAN

### FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

### To the President of Columbia University in the City of New York,

Sir:

I have the honor to submit herewith the annual report of the Library of this University for the year ending June 30, 1902.

It has been possible during the past year to readjust the occupancy and equipment of several rooms, to the manifest Readjust- advantage of the departments interested and to ment the greater convenience and efficiency of all work-The removal of the law club-room to the space under the ers. main entrance to the Library, and the transfer of the Bursar's office to the room formerly occupied by the law students, made it possible to place the Bureau of Supplies in the onetime office of the Bursar; thus bringing it immediately adjacent to the office of the Registrar, under whose general supervision the work of the Bureau of Supplies is carried on. This made it feasible to transfer to the room hitherto occupied by the Bureau of Supplies, the Periodical Reading Room. The space is all too limited, and the room is in many ways not at all well fitted for this use; but the comparatively slight discomfort and inconvenience of the readers is more than offset by the greater general efficiency secured by the transfer of other departments.

The heavy screen or shelved partition which has always stood back of the Loan Desk was removed to the one-time Periodical Room, and has become the division between the Cataloguing Department and the Order Department. The room itself is large enough to permit of this double occupancy, and yet give every convenience for the work. It will be remembered that the cataloguers were located immediately back of the Loan Desk. They find their present quarters much more quiet, the light better, and the work of the department less subject to interruption.

The Order Department was transferred from the Librarian's office, where it had been for more than two years; and finds ample room for effective service.

The large middle room, formerly occupied by both the Cataloguing Department and the Loan Desk, has been given up to the Loan Division of the Readers' Department. The desk has been enlarged, the catalogue cases have been withdrawn from the corridor and placed around the room, and some 2500 special reserve books have been shelved back of the desk—to be used on a day-and-hour schedule. These changes have been greatly appreciated by all who have had occasion to use the Library. For the first time in many years the workers on both sides of the Loan Desk are enjoying natural light and are finding ample space for the service.

The return of the Librarian to his own office has been greatly appreciated not only by himself but by those who have had occasion to transact business directly with him.

The general effect of these changes, especially those which were made for the Loan Division, has been to create an impression of resources and organization and equipment entirely competent for both general and special demands; and in dignity and general worth quite commensurate with the Library and the building which it occupies.

A brief summary of the work and methods of the Order Department may not be out of place in this report. When orders for books, sent in by officers or others, reach the **The Order** department the first duty is to verify the author **Depart**and title. Then prices must be looked up, and the **ment** proper entries made on the order books and on the accounts of the proper officers, and order cards sent out to our purchasing agents. Nearly six hundred second-hand catalogues, containing items approved by officers and others, have been compared with our own catalogue during the past year, and orders written for such titles as were not already on our shelves.

When the books are received, the orders are taken from the files; titles, dates, and prices are verified by comparing the books and the orders; the date of receipt, the source, and the cost price are entered on the orders and in the books: and the books are then stamped and accessioned and sent forward to be plated, embossed, and catalogued. Cards are sent to the different officers, announcing the receipt of their orders. The cost of each book is entered upon the account kept with the department ordering it, and a statement of the unexpended appropriation of each department is sent monthly. A large number of subscriptions are for books which come out in parts — the total number is 288: and the continuations of these are cared for by this department.

Two hundred and forty-eight new readers' tickets and 149 renewals, and 76 cards of admission to seminar rooms, have been written, forwarded, and the proper records made. A special list of the volumes and unbound material given by the American Mathematical Society, consisting of 991 volumes and 70 unbound numbers, has been prepared. Proper accounts of all expenditures on the various book funds are kept, and a monthly balance sheet drawn. Lists of new books have been prepared twice each week for the *Spectator*.

Much has been accomplished during the past year in the way of completing sets of periodicals.

There have been sent to this department twice a month from regular agents, a large number of new publications for inspection. This brings the latest publications directly to the notice of officers and students, and a large number of these books have been ordered by the proper departments and have been retained in the Library. Many more would have been ordered if funds had permitted.

Orders have been sent to the number of 3608, of which 1471 were from second-hand catalogues. Of these last, 389 were sold before our orders reached the dealers. A total of 4538 orders have been received, which includes some orders "outstanding" at the close of the last fiscal year. Two hundred and fifteen orders have been cancelled. Cancellations have been made either because titles were unobtainable or because they proved to be extracts from transactions of societies which are already in the Library. The total number of volumes added to the Library during the year by purchase was 10,816, by gift 4422, by exchange 112, and by binding of pamphlets 562.

In addition this Library has become the depository for the collections of the Holland Society and of the American Mathematical Society.

Nearly twenty-five thousand pamphlets were presented to the Library during the year.

The Library now numbers 327,622 volumes.

The Supervisor of this department suggests that the Trustees establish a fund to be known as the "Lost-Book Fund," and that all monies paid for books lost, all fines exacted for books overdue or for other violations of Library regulations, and all monies arising from the sales of duplicates, be turned into this fund to be used by the Library in replacing lost volumes.

The attention of the Trustees is again called to the fact that in accepting the gift of Prof. Egleston's library they agreed to continue such sets of serials as were contained therein, but thus far have made no special provision for such continuations. Some of these sets have fallen in arrears for lack of funds to continue subscriptions.

By the Order Department more than elsewhere in the Library is felt the constant pressure arising from insufficient appropriations and revenues. While it is entirely true that these have always been generous, it is equally true that they are not sufficient to meet the demands of this large and growing University. Appropriations which when distributed to different departments give to some not more than \$100 and to very few more than \$300, are certainly below the line of entire satisfaction. The best of all that is published, the last word that is spoken by those in authority, ought to be within the reach of all officers and students: and this can only be accomplished by much larger expenditures than we are making to-day. In her annual report to the Librarian, the Supervisor expresses the keen appreciation of the members of her staff **The Cata-** of the additional space, greater quiet, and close **loguing De-**proximity to the Order Department: all of which **partment** have aided in making all work move forward much more smoothly and comfortably and efficiently than ever before. The appointment of a page for the exclusive use of the Cataloguing Department and the Order Department has added much to the ease and rapidity with which the work of the two departments has been accomplished.

During the past year we have trained three apprentices all for whom we can find room; and have been able to add these to the staff. These apprentices give such service as they may be able to render for such instruction as we can offer.

There have been added to the catalogue 70,581 cards, the majority of them typewritten on the new machine, which is now doing very satisfactory work. The use of the particolored ribbon has so nearly dispensed with hand-work on the cards that two young women are now able to do the work for which six were required in the days of hand-printing.

We have continued to unite with other libraries in the cooperative cataloguing of scientific periodicals, and we have received from this source during the past year 3772 cards at a total expense to us of \$25.16.

During the year the services of expert Hebrew and Arabic scholars have been secured for cataloguing nearly a thousand books and manuscripts in those languages, hitherto practically inaccessible.

For many years the more prominent librarians of the country have felt that a system of co-operative cataloguing, if feasible, might save to the individual libraries much duplication of labor and expense. After many conferences, and after a careful consideration of the whole subject for more than a year by a committee of the American Library Association, the Library of Congress, which prints its own cards, has entered into an arrangement whereby any library may order cards for any book which is owned and catalogued by the Library of Congress; the expense being but a trifle of that which is ordinarily incurred by the individual library. We have endeavored to profit by this arrangement: but the accessions of the Library of Congress are largely American copyrighted books and our accessions of American books form a small proportion of the total number of titles purchased during a given year. We have not been able therefore to save enough in the expense of cataloguing to pay us for the extra trouble in sending orders to Washington, in cutting and punching the cards after they reach us, and especially in withholding our books from the shelves until these cards can be received. We are so near the great publishing centres that we often receive American books and accession and catalogue them and place them on our shelves ten days before the cards from Washington reach us. However, this work is clearly in an experimental stage, and we very gladly joined with others in giving it a longer trial.

The appropriation made for the work of this department covers the payment for periodicals and other serials and the expense of all binding done for the Library. Serial De-By an economic and careful management of the partment work of the binding division, a sufficient amount of money has been saved to permit an extension of the list of periodicals; upon which we have spent something over \$300, following the advices of heads of University departments.

The work of binding and rebinding has been carried on during the year with rather unusual success. The policy of using one of the minor city binderies, which would give the work of this Library preference as to time and attention, has been continued. At times there has been such pressure and we have been in such haste to have work completed, that we have employed two binderies rather than one. While we had some difficulty at the first of the year in connection with our former binder, because of financial troubles which came to him through taking up a side business in which he was inexperienced; throughout the nearly five months' trouble in the bookbinding trade, caused by a general lockout and an extended strike, this Library did not suffer any inconvenience whatever. More volumes than ever before have been bound and rebound, the quality of the material and workmanship has been very satisfactory, and at the close of the year this department of the Library is still sufficiently within its appropriations to enable it to transfer to the Order Department, for the purchase of miscellaneous books, quite a large balance.

The past year has seen unusual activity and unusual success in collecting national, state, and civic documents and reports, and the reports of public and semi-public organizations. Special care has been taken to fill up the gaps in the sets of these reports and publications, and many of them are already quite complete. The care and classification of miscellaneous pamphlets and unbound material has been carried forward successfully; and there are very few titles now in this Library that are not easily accessible.

In the last report from this Library reference was made to an experiment, then recently undertaken, in the way of direct dealings with the dealers in second-hand books, on the Continent. This experiment has been continued during the last year, and has proved entirely satisfactory. It is hardly too much to say that this Library now receives nearly all the second-hand catalogues published in the world, which are of special value. With rare exceptions, all departments of the University have made constant use of the information thus gathered. The Supervisor of this department has been exceedingly efficient and helpful in this matter, and it is quite probable that the greater number of purchases made in this way during the last year have not cost us one-half the usual prices. Hundreds of volumes have been purchased for even one-tenth the original value. This close touch with the dealers of Europe has enabled us to supply with the least possible delay unusual demands of University departments; and the Library now owns some titles for which it has been searching for many years. The old method of sending out a carte-blanche order to a foreign dealer, to find a given title within his own time and at his own price, has practically been abandoned.

The Supervisor of this department has also rendered very efficient service in the matter of the contract for German dissertations, of which the Library expects to receive not less than 40,000 within eighteen months; in the selection and purchase of the books of the Historical Reading Room in University Hall; and in the selection and purchase of the books for the new department of Chinese language and literature.

Early in February, by the courtesy of the President of the University, who withdrew from the room so long occupied as a President's office and made it available for its present purpose, opportunity was at last found for the definite organization of a Bibliographic collection; the care of which has been added to the many duties of the department under consideration. The cases from the Phœnix galleries, so-called, have been transferred to this room, and sufficient shelving has been put in place to permit the collection of a large number of valuable bibliographic sets and the display of some of the rarest books owned by this Library. This room, however, sadly needs more cases and more shelving before the most efficient work can be accomplished. In this connection it is a pleasure to note that some of the leading collectors of the city have already promised some of their rarest volumes for historic exhibits which it is hoped may be made in this room from time to time in the future.

At the middle of the academic year the Supervisor of this department, Mr. W. M. Gilbert, was called to a position in the executive office; and Mr. Frank Erb, an assistant at the Loan Desk for several years, was partment advanced to the position of Acting Supervisor for the remainder of the fiscal year.

The work of the department has followed usual lines. The construction of the Library and the distribution of its contents are such as to make a corps of well trained and active pages the most efficient means of handling the books. As the erection of new buildings makes possible the withdrawal of instructional work from the Library, and more rooms in this building are available for strictly library purposes, we hope to substitute electric power for the present rather unsatisfactory pneumatic system and reorganize the entire service. At present, however, the work of the pages is very satisfactory. By opening exchange accounts with several of the larger universities and with two of the most responsible bookdealers, we have disposed of nearly all of the duplicates of the Library. Duplicates of government publications are returned to Washington from time to time, as they accumulate. This leaves room in the sub-basement for the storage of some special collections, and with some additional shelving will permit a careful shelving and classification of Columbiana.

The shelf-reading has been carried on with unusual care, and a large number of titles thought to be lost have been found and returned to their places. The total final losses of the University are very small, especially when it is remembered that this Library permits free access to its stacks by all officers and nearly all students. The close of the present fiscal year shows not to exceed 1200 titles missing \*: and it is more than probable that a large percentage of these will be found before the opening of the next academic year.

It is not the practice in this Library to say to a patron that a book is out, simply because it cannot be found. A book is "out" of the Library only when it is properly charged out and the holder is known. This means that when a call is made for a certain volume, and it cannot be found in its place upon the shelves, and is not definitely charged out, immediate and prolonged search is made. It takes time and assistants to maintain this work, but the results fully warrant this expenditure.

There is need of additional shelving, in nearly every department of the Library. To meet present requirements with what shelving we have, has compelled a very serious division of the books, and has made breaks in classification which create delay in the search for the books and waste the time of the patrons of the Library. The remaining half of the general stack room ought to be shelved at once.

The work of gilding (adding the stack-numbers to the books) and repairing has been unusually satisfactory through the year. It will add much to the efficiency of this depart-

\* Not for the year just closing, but the total aggregate losses since the records of this Library have been kept. ment if one stitching machine and a trimming machine can be added to its equipment.

Loan Division.—The extensive changes in the equipment of this division, and especially the additional floor-space and desk-room provided, have made possible a more **Readers'** systematic subdivision of work, which in turn **Depart**permits the use of a larger number of assistants **ment** in an entirely satisfactory manner. The general work of the division has been carried on much more advantageously than ever before, at a comparatively small increased cost of service.

It has not been found desirable or necessary to make any special changes in the method of serving readers. Some slight gain has been made in the rapidity of such service, the daily records often showing an average of five titles (in and out) each two minutes of the working day.

Additional floor-space, additional desk-room, and additional service have made it possible to greatly extend the reservation of books, on a day-and-hour scheme, along the lines of special study, throughout the entire academic year. The shelving facilities back of the Loan Desk now cover about 3000 volumes, in addition to perhaps 2000 reserved as formerly upon the shelves of the General Reading Room. This is nearly five times as many reservations as were made even three years ago. The plan has received the hearty approval of officers and students of the University. By close cooperation with all instructors, this class of books is constantly being changed in accordance with the progress made in the various courses of reading assigned to the students.

The records for the year show a decrease in the total number of volumes loaned and renewed of nearly seventeen thousand. But this decrease is not to be taken as indicating any decrease in the uses of the Library. Exactly the contrary is true. The lessened number of loans is due to the larger number of books reserved on the day-and-hour scheme just referred to, as well as to an intelligent though at times perhaps instinctive rather than conscious movement on the part of all patrons of the Library toward the greater use of the books in the building. No better or more interesting proof of this last statement is afforded than the unusually frequent recall of books from borrowers before the expiration of the loan period (two weeks) at the urgent request of officers of the University, even of some officers who think that they are opposed to this drift of University sentiment. In other words, the University public is naturally and inevitably accepting a reference library as more desirable than a circulating library, when all users are considered. It is not at all difficult to understand this trend of events. Every well-managed University library will show decreasing recorded uses as the convenience and facilities for the use of the library in the building increase. There is a possible fourteen hours' use of every volume each day while it remains in the Library. There is a probable use of each volume of perhaps four hours a day (maximum) while it is out of the library and in the hands of the individual officer or student. There is a possible loss in use therefore of ten hours a day when a book is withdrawn. Officers and students are coming to recognize this, and are more and more willing to suffer some slight inconvenience, as in the choice of time for using a given volume, for the sake of the general welfare. Incidentally, the increasing number of students residing in the immediate neighborhood of the University has a bearing upon this question, and adds another to the many reasons for the erection of dormitories upon the University grounds.

The number of persons who have borrowed books from the Library within the current year was 3049, classified thus:

| Officers of the University: including instructors, tutors, and |      |
|--|------|
| assistants   | 425  |
| Graduates: Columbia, 612; Barnard, 81; Teachers College, 22    | 715  |
| Students: Columbia, 1433; Barnard, 351; Teachers College, 108  | 1892 |
| Auditors   | 17   |

The character of the circulation for use outside the building may be determined from the following comparative statement:

Last December (1901), 4027 volumes were loaned out, as against December 1900, 5405 volumes; classified as follows:

| I            | 901-02 | 1900-01 |                         | 1901-02 | 1900-01 |
|--------------|--------|---------|-------------------------|---------|---------|
| Bibliography | . 70   | 100     | Philology               | 416     | 560     |
| Philosophy   | 157    | 274     | Science and Useful Arts | 1000    | 803     |
| Religion     | III    | 158     | Fine Arts               | 87      | 90      |
| Sociology an | d      |         | History and Biography   | 553     | 822     |
| Education    | 418    | 670     | Literatures, including  |         |         |
|              |        |         | Fiction                 | 1215    | 1928    |

The amount of fines for books kept out of the Library beyond the time permitted by the rules was 325.55 as against 335.40 of the preceding year. It is interesting to note that the reason why the fines have not fallen off in proportion to the decrease in general circulation is the fact that there has been an increase of fines in connection with the day-andhour scheme.

The amount collected for lost books, not included in the above, was \$10.13. In addition to this amount, some books reported as lost have been replaced by the borrower, by gift of new copies of identical editions: which have been accepted in lieu of the cost of the book.

During the year the number of books circulated as interlibrary loans has been much larger than usual, and there has been an unusual increase in the shipment of books to and from officers of the University during vacation periods. A total of 343 volumes were loaned to 58 libraries, classified by states as follows:

| California    | 6  | Missouri       | 6   | Pennsylvania 68     | , |
|---------------|----|----------------|-----|---------------------|---|
| Colorado      | I  | Nebraska       | 7   | Tennessee 5         |   |
| Connecticut   | II | New Jersey     | 28  | Washington, D.C. 11 |   |
| Illinois      | 3  | New York       | 155 | Wisconsin 11        |   |
| Iowa          | 7  | North Carolina | I   |                     |   |
| Massachusetts | 13 | Ohio           | 10  |                     |   |

The cost of transportation has been paid by the borrowing library. From letters in hand it is evident that this service has been keenly appreciated.

This Library borrowed 117 volumes from 9 libraries classified as follows:

| Massachusetts | 93 | Rhode Island     | 4   |
|---------------|----|------------------|-----|
| New Jersey    | 2  | Washington, D.C. | I 2 |
| New York      | 6  |                  |     |

The cost of transportation in connection with these loans has been quite generally paid by the Library and not by the person using the books, since many of the loans were made in connection with class-work and were called for directly by officers of the University and not by the students themselves.

While our relations with all other libraries have been peculiarly pleasant, special acknowledgments are due to Harvard University, Boston Public Library, Boston Atheneum, and the Library of Congress for the very prompt and courteous manner in which they have rendered assistance to our readers.

From the Pan-American Exposition, some 25 volumes were transferred directly to the South Carolina Exposition, and have not yet been returned.

Reference Division .- The average daily number of students occupying the General Reading Room has steadily increased and the demand for more room is imperative. The number of outsiders, not only those holding readers' tickets but largely those who are occasional visitors in search of special information, has likewise been greater than in previous years. Among these latter have been many students from public and private schools, especially students from the city highschools, seeking references on topics for debates, in many instances accompanied by their instructors. Graduate students and officers from other institutions are continually with us, as well as students from near-by colleges and from the library schools of Brooklyn, Albany, and Philadelphia. We have at least a dozen literary workers of high standing among our almost daily visitors.

The assignment of desk-room in the General Reading Room to the curator of the card catalogue has made it possible to have continuous service in the Reading Room, even during the absence of the Head Reference Librarian when aiding readers in connection with their work.

It is a difficult matter to represent in any adequate way by statistics the uses made of the Library. However, the following statement of loans for use in the building may be taken as typical of the increase on all lines, and will be interesting and suggestive:

|       | DOMINO | OR ODD IN | IIID DOIDDING |        |
|-------|--------|-----------|---------------|--------|
| Weeks | 1899   | 1900      | 1901          | 1902   |
|       |        |           |               |        |
| ıst   | 830    | 1,077     | 1,153         | 1,951  |
| 2d    | 863    | 1,191     | 1,422         | 1,533  |
| 3d    | 777    | 899       | 1,448         | 1,904  |
| 4th   | 641    | 1,156     | 1,523         | 1,558  |
| 5th   | 565    | 985       | 1,259         | 1,785  |
| őth   | 667    | 939       | 1,120         | 1,808  |
| 7th   | 580    | 1,128     | 1,567         | 1,734  |
| 8th   | 698    | 1,108     | 1,546         | 1,407. |
| 9th   | 661    | 1,154     | 1,577         | 2,206  |
| ıoth  | 855    | 1,290     | I,544         | 1,776  |
| ııth  | 735    | 1,232     | 1,697         | 1,966  |
| 12th  | 673    | 1,377     | 1,731         | 2,100  |
| 13th  | 588    | 1,238     | 1,680         | 2,026  |
|       |        |           |               |        |
|       | 9,133  | 14,774    | 19,267        | 23,754 |

LOANS FOR USE IN THE BUILDING \*

The average attendance of evening readers during the year has been about one hundred.

The catalogue of books on Education was completed in September, and the distribution of copies began early in October. The total number of titles thus recorded in the Libraries of this University is nearly fourteen thousand. While this work was passing through the press, a card catalogue supplementary to it was begun, which has been continued for all educational matter as received, and now represents nearly 600 volumes and more than 1600 pamphlets. The reports of the Departments of Education of the several States, except New York, and of the school boards of all towns and cities, except New York City, have been transferred to the Bryson Library at Teachers College. All current educational periodicals, except the Educational Review, Pedagogical Seminary, and the School Review, are sent to the same library as soon as received here. About 100 volumes of school and text books, not suited to the demands of this Library, and some duplicates, have likewise been sent to the Bryson Library, either for use there or for the library of the Horace Mann School.

In order to complete as far as possible our sets of college publications, slips from the proof sheets of the *Educational Catalogue*, showing what we have, with a circular letter asking

\* Exclusive of loans made at the "reserve desk," on the day-andhour scheme, aggregating about 10,000 volumes for the quarter. that deficiencies be supplied, were sent to thirty-five state universities and to some sixty colleges. Some of these institutions responded promptly and liberally, while others are still to be heard from. College student periodicals have been transferred from Room 306 to Room 105, where they are kept on file but not catalogued.

The Reference Division of the Readers' Department includes the Avery Library. The founders have again shown their generosity, not only by a gift of \$1000 for current expenses but by gifts and purchases amounting to quite half as much more. These will be found set forth in detail in the usual report of gifts for the year.

The condition of Professor Ware's health has limited his activities to the department over which he presides, and the actual selection of books for the Avery Library during the year has been largely in the hands of Mr. Russell Sturgis, who especially represents the architectural profession and is in constant communication with Mr. Avery. It is impossible to overestimate the value to the Avery Library of Mr. Sturgis's experience, conservative judgment, and strong personality: and his continuance upon the Purchasing Committee has been a source of great satisfaction to all concerned.

The policy of creating special card indexes has been adhered to during the year. It is not possible to do this without the assistance of specialists of exceptional training. During the past winter such assistance has been secured for painting and sculpture, in the person of the instructor in the History of Art in the Brearley School; and a large amount of very satisfactory work has been done.

The use of the Avery by the general public has steadily increased. The room being open to all comers, and by the terms of the foundation being a reference library only, no formal record is kept of the use of the books.

The large unfurnished room at the south end of the suite has been constantly occupied for various kinds of work in connection with the uses of the Avery Library and with the Department of Architecture. Ultimately, when this entire building is available for the Library, it is hoped that the room under the Avery Library may be converted into an atelier for the Department of Architecture, and that the room now used for this purpose may be stacked and used for storing the larger and least used volumes.

The greater part of the material in the Avery Library is open to readers. Workers are encouraged to go to the shelves and search the books at will. By request of the Architectural Department students are permitted to use ink in tracing. Notwithstanding this freedom, which is perhaps peculiar to this Library and not permitted in any other library of the same standing, the books have not suffered any serious deterioration.

This Library forms a very delightful auditorium for possibly a hundred people, maximum, within sight of a lantern screen. Several lectures and book-talks have been given here during the year. The President of the University has held two public receptions in the Library.

The opportunities and influences of the Avery Library are large and are enlarging.

During the year the Committee has purchased 132 volumes, and has more than fifty orders still outstanding; 98 volumes have been presented, of which very many came directly from the founders. This Library now contains more than 17,000 volumes, the actual cost of which has been about \$70,000. At present the endowment amounts to \$30,000, with an annual income of something more than \$1200.

Among the notable additions to the Avery Library during the current year are the following:

Emile Molinier: Le Mobilier royal français aux XVII et XVIII siècles, folio, 1902, four parts published.

Gaston Migeon and Emile Molinier: Treasures and Masterpieces of Art at the Paris Universal Exposition, Goupil et cie., Paris, 1901, 4 vols., folio.

Vorlegeblätter für Archæologische übungen, very rare first series, Vienna, 1869–1876, 1 vol., folio.

Burlington Fine Arts Club: Exhibition of a Collection of Silversmith's Work of European Origin, London, 1901, 1 vol., folio.

Burlington Fine Arts Club: Exhibition of Chased and Embossed Steel and Iron Work of European Origin, London, 1900, 1 vol., folio.

Calzini, Urbino e i suoi monumenti, Urbino, 1897, 1 vol., folio.

Niccolini: Domus Vettiorum: la nouvelle maison de Pompei, Naples, 1896, 1 vol., folio.

Rodolfo Lanciani: Forma urbis Romæ, consilio et auctoritate Regiæ academiæ syncæorum, Milan, 1893-1900, 1 vol., folio, completion.

Reiss und Stübel:"*Necropolis of Ancon in Peru.* A contribution to our knowledge of the culture and industries of the Empire of the Incas. Berlin, 1880-87, 3 vols., folio.

Belcher and Macartney: Later Renaissance Architecture in England. A series of examples of the domestic buildings erected subsequent to the Elizabethan period. 2 vols., folio, London, 1901, completion.

Section 2 of Chapter VI of the statutes of this University, before the recent amendment, read as follows:

"All books, maps, charts, and other printed Departmatter heretofore or hereafter purchased for the ment use of any department shall be deemed to be a Libraries part of the Library, and shall be stamped and catalogued as such, and such books will be kept in the Library when not required in the respective departments for special uses; and their presence shall be periodically verified and their condition inspected by the Librarian or one of his assistants. Such books shall be purchased by the Librarian and paid for out of the general book fund, except that books may be purchased by the head of a department and charged to the appropriation of that department, such purchase having first been approved by the President."

Strictly construed, this made the Librarian responsible for a large amount of departmental equipment: such as all maps, charts, and other printed matter used directly and only for the purpose of instruction; certain annuals practically useless at the close of each year, and very generally thrown aside then, even if not actually "used up" during the year; dictionaries and other reference books which are for the use of the department only. Moreover, the Library was obliged to meet the expense of cataloguing all these, and they were all counted as so many volumes in this Library: which could not be true in any fair or sensible use of the words. Still further, if this statute were literally obeyed most of these collections would be returned to the Library at the close of each academic year for storage and care. As a matter of fact, for years the statute had been outgrown and neglected, and all existing conditions made its amendment exceedingly desirable and necessary.

The purchase of manuscripts, books, maps, and charts and other printed and illustrative matter naturally divides on three lines, as follows—subject of course to available revenues:

(1) The University authorities should furnish each department, for the exclusive use of the head of the department and of his assistants of every degree, such titles as are peculiarly necessary in their University work, and such as these gentlemen cannot be reasonably asked to secure for themselves. The University authorities have every reason to expect that each officer will incur constant expense and considerable expense in keeping himself well informed in his departmental matters, and in conducting research or other forms of original work-especially if the results of such work are directly remunerative to the officer, and bear but indirectly upon his University duties: though it must be confessed that it is not easy to draw this line. But beyond this demand upon the personal resources of the officer-wherever the line may be drawn-are other demands, as noted above, which are quite as imperative and which the University authorities ought to meet. This means the steady growth of what need never become a large library, in the private rooms (at the University) of the head of each department: a collection not to be loaned outside of the department, and not to be subject to the call or use of others than officers of the department.

(2) The University authorities should furnish each department, for the exclusive use of the officers and students of that department, such material, printed or other, as is so strictly technical in character and so peculiarly and immediately and continuously valuable and necessary in direct connection with the lectures and with the laboratory work of the department (in the broadest sense of the words "laboratory work") as to be properly considered laboratory equipment. For the present discussion it is sufficient to include under this statement the books which an officer or student needs at his elbow, for frequent and always immediate reference in connection with any phase of his regular departmental work.

This means the steady growth of what has been called a

departmental library, a title which has proved too elastic and liable to serious differences of interpretation: as a substitute for which I would suggest the term laboratory library; and this whether speaking of a department in science, in history, in philosophy, or in the languages and literaturesin speaking of any department. Necessarily we have made something of a start in this direction, but without any very definite plan. Because of limitations in our resources with which to meet this demand, we have thus far transferred books, etc., from the General Library to the departments. But the outcome is far from satisfactory. As we are not yet able to duplicate these collections, the volumes are necessarily subject to the call of any one entitled to use this Library. This results in constant confusion and disappointment, because either the department or the would-be borrower is unable to secure a book when it is most needed; in a division of responsibility as to the care of the collection; and in a serious limitation in the use of the books, arising from the fact that the departmental hours are but little more than half those of the Library. There is no way by which all this, and more, may be prevented except by extraordinary and really unwarranted expenditure for care and maintenance, or by duplication as far as duplication is desirable and necessary for the greatest efficiency.

(3) The University authorities must provide for the Library proper, in the usual way. This needs no discussion or amplification.

After careful consideration of this entire question, and after many conferences with those most interested, the following amendment to this statute was adopted, January 6, 1902:

"(a) All books, maps, charts, and other printed matter strictly technical in character and peculiarly and immediately valuable and necessary in direct connection with the lectures and laboratory work of departments, heretofore or hereafter purchased for the exclusive use of any department, shall be deemed a part of the equipment of such departments, shall be paid for out of departmental appropriations, and shall be scheduled and cared for under the rules governing departmental equipment. Such departmental equipment shall be purchased by heads of departments and charged to the equipment appropriations for such departments, such purchases having first been approved by the President; but specific appropriations for this class of equipment may not be used for the purchase of other equipment.

"(b) All other books, maps, charts, and other printed matter shall be deemed a part of the Library, and shall be stamped and catalogued as such. Such books and other material shall be purchased by the Librarian, and paid for out of the general book fund, or other specific appropriations, or out of the revenues from specific gifts and bequests."

It is not possible, with our somewhat limited resources, to put this statute immediately and completely into effect. This cannot be done until we are able to duplicate in the General Library such titles as ought to be left in the care of the departments, under this statute, as departmental equipment. The amendment covers conditions which are desirable and which will be realized as rapidly as our resources will permit. It is helpfully suggestive, and the growth of the Library can now be along somewhat predetermined lines, and can be just as rapid and can go just as far as the Trustees may find desirable and feasible. It is hardly possible that there will be need of further changes in this particular section of the statute for some years to come.

The general purpose of the amendment is to relieve the Librarian of responsibility for that which is properly departmental equipment; to secure the purchase of this equipment under some uniform system by departmental funds, as is already done in some departments; to remove the possibility of friction. between departmental officers and the Librarian, which would naturally arise under the earlier statute because of differences of opinion as to the character and extent of such purchases; and to make possible a strictly truthful and accurate statement as to the contents of this Library, regarding it as a collection readily accessible to all officers and students of this University and for their constant use.

On request, the Librarian will at all times co-operate with the heads of departments and other University officers in the purchase of titles for departmental uses under this statute. This will give the departments the advantages of discounts, etc., granted this Library; and will relieve the departments of the burden of correspondence, of U. S. customs business, and of all detailed book-keeping. If it is thought desirable, as affording still further relief from irksome details, the Librarian will prepare and maintain lists or invoices of this class of departmental equipment, and will inspect and report upon the same in detail to the Trustees annually.

It is suggested that hereafter in the annual reports of the needs of departments, officers include specific requests for appropriations for (1) "Books and other printed matter for the use of officers," (2) "Books and other printed matter for laboratory uses."

Under existing financial conditions, the only immediate result of amending the statute will be to relieve the Librarian of technical responsibility for a quantity of material which all agree is in no respect a part of the Library collections.

Through the generosity of Mr. W. C. Schermerhorn, who placed \$2500 at the disposal of the Librarian for this purpose, **Notable** we have come into possession of a collection **Additions** including nearly 1100 letters to De Witt Clinton from persons of varying degrees of prominence in city and state, aggregating more than 6000 pages. Among the more noted writers are Philip Freneau, Aaron Burr, Gouverneur Morris, James Madison, James Monroe, Andrew Jackson, John Adams, Thomas Jefferson, Martin Van Buren, Lafayette, Robert Fulton, John Jacob Astor, Thomas Paine, Albert Gallatin, John Jay, and Henry Clay.

The most important section of the mass of letters is that which relates to canals, comprising perhaps one-quarter of the bulk of the correspondence. Another large section relates to scientific and agricultural subjects, in which Governor Clinton was deeply interested. A slightly smaller section covers educational and literary matters.

There are also six thick volumes, quarto and folio, comprising over 3000 pages of Governor Clinton's letter books, mostly in his autograph. These contain transcripts, some at full length, others merely abstracts, of hundreds of letters written by him. There is an additional folio volume, containing miscellaneous matter, memoranda for speeches, etc.

The whole forms a most unique collection of valuable unpublished manuscript.

Following are a few of the many treasures gathered during the current academic year, through European correspondents:

Pacioli del Borgo: Suma de Arithmetica Geometria Proportioni et Proportionalita, Venice, 1494, the first book on algebra; and many other early mathematical works.

*Guarinus de Ordine Docendi ac Studendi*, printed in Venice in 1474. This little book is probably the second pedagogical work ever printed, and is of special interest to Columbia because of its unusually complete pedagogical collection.

Gerson's Donatus, printed in Strassburg in 1474; one of the earliest school books in existence, and the earliest one in this Library.

The first edition of Iamblichus, Proclus, Porphyrius, Synesius, Pfellus, Pythagoras, Xenocrates, Marsilius, Ficinus, published in one volume by the great Aldus in 1499; a beautiful specimen of craftsmanship, and of great importance in the history of philosophy.

A volume of Lactanius, from the library of Pope Clement XI., printed in Venice in 1478. The arms of the Pope are impressed on both sides of the decorative old binding. In the near future this volume will be regarded as a great treasure. It has a large number of annotations in a handwriting that closely resembles that of Michael Angelo.

A copy of the first *Polyglot Psalter*, printed in Genoa in 1516; published by the great scholar, the Bishop Augustino Justiniano, and remarkable not only for its typography, but because it contains the first biography of Columbus and a somewhat detailed account of America and its inhabitants. This account is given in a gloss to Psalm xix., of 138 lines.

A ninth century Codex, written in Carolingian minuscules, and containing the letters of St. Jerome; by far the earliest manuscript in the Library.

The Hypognosticon Laurentii Dunelmensis, etc.; known as a twelfth century manuscript, but is certainly not earlier than the end of the thirteenth century. Of the greatest importance because it was written in England, and contains a very important, early, and unpublished version of Lawrence of Durham's hypognosticon.

A magnificent manuscript on parchment, containing Terence's six comedies, written in Italy in the first quarter of the fifteenth century.

A Chinese printed volume, the title of which is *Tse Chi Tung Kien Kang Mu*; or a general history of China, printed in China in 1350—that is, one hundred years before printing was given to Europe by Guttenberg.

The famous 1487 edition of Dante with the Landino commentary.

The most important separate and collected editions of J. Ludovicus Vives, which we bought for a post-graduate student, who is especially interested in Vives.

The *Editio princeps* of Aristotle's and Theophrastus's works, published in 6 vols. by Aldus in 1495-1498.

The complete sets of the Proceedings and Transactions of the London Zoölogical Society.

Almost a complete set of all the first editions of Galileo's works.

The first editions of several of the works of Pascal.

Newton's Philosophiæ naturalis principia mathematica, London, 1687.

Mention should be made of the gift to this University by the Foreign Office of China of the "T'u Shu Chi Ch'eng," a standard collection of ancient and modern works comprising those that deal with matters of great moment, as well as those that treat of minor details. It is the most comprehensive collection of books that has been made in China. The collection consists of over 6000 volumes, divided into thirtytwo heads or classes, and treats of every subject known to Chinese literature. It is, in fact, a complete collection of ancient and modern works in which all facts regarding China are recorded and classified, all sources of information indicated, and all authorities cited and discussed. The work was originally undertaken by a commission of eminent Chinese scholars appointed by Emperor Kang Hsi, who reigned from 1662 to 1723. From the scientific point of view, the gift is absolutely invaluable, as it puts at the disposal of American students a collection of sources not heretofore accessible to them. The monetary value of the collection is estimated at 10,000 taels, or about \$7000.

Among the more notable sets secured or completed are the following: Situation financière des communes, 21 vols.; Bulletin consulaire française, 15 vols.; Canadian Government Emigration Records, 21 vols.; Sinclair's Statistical Account of Scotland, 21 vols.; Gazzetta chimica Italiana, 35 vols.; Busken-Huet. Litterarische fantasien, 26 vols.; Ten Brink's Litterarischen Schetsen, 19 vols.; Executive Journal U. S. Senate Secret Sessions, 1789–1869, 18 vols.; Pennsylvania Archives, 38 vols.; Panckoucke Bibliothèque latine-française, 35 vols.; Annales telegraphiques, 31 vols.; Bicentennial Publications of Yale University, 25 vols.; Galileo, Opera, 16 vols., 1542; Chinese Repository, 20 vols.; Abhandlungen aus der naturlehre der Schwedischen Akademie der Wissenschaften, 52 vols.; China Review, 24 vols.; Chinese Recorder, 24 vols.; Point du jour, 27 vols.; Journal d'agriculture, 25 vols.

In extending the usual recognition to the Supervisors and to other members of the Library staff, for their faithfulness and efficiency during the year, and for the courtesy **The Library** and consideration which have marked their relations not only to the Librarian but to University officers and students and to all who are using the Library, it seems entirely proper that the attention of the Trustees should be called to the high standing of the staff in the matter of general equipment for their work.

It is more than possible that the exacting demands of the various positions upon the staff are not fully appreciated. The men and women who can render competent service in this Library, and who can satisfy the requirements of their positions, must necessarily base their special training and successful experience upon rather unusual intellectual qualities and upon quite unusual culture. As a single example, in a university library the large number of books printed in foreign languages makes it necessary that the greater number of the staff shall have at least a "title-page" and "contents" knowledge of these languages; and that many of them should have a fair reading knowledge besides. A recent canvass of the staff shows that 32 are able to meet the requirements of their positions in French, 30 in German, 25 in Latin, 22 in Italian, 19 in Spanish, and 6 in Greek.

Four of the staff have a sufficient knowledge of six languages, nine of five, four of four, seven of three, and one of two. Nine of the staff are college and university bred, and a large number of the others have had special training equivalent to a portion at least of a college course.

The Trustees have very courteously and, by the quite general agreement of the University and college world, very wisely, given a librarian the rank of a full professor. With the statement just made, it would seem that an assistant librarian (when we have one) should rank as an adjunct professor, that supervisors of departments and reference librarians should rank as instructors, and that the cataloguers should rank at least as tutors. The requirements for these several positions being fairly equal with the requirements made in the different grades of instruction, and the daily demands being quite as exacting, the question of equality in remuneration is naturally suggested.

I desire again to give full credit to the detailed and accurate departmental reports, which have made the preparation of this report little more than editorial work.

And to this I add my continued appreciation of the consideration and thoughtfulness of the President and of the Trustees and officers of the University, as manifested in all their relations to the Library and to myself.

Respectfully submitted,

JAMES H. CANFIELD, Librarian.

July 1, 1902.

ADDITIONS TO THE LIBRARY

\*

1901-1902

|      | Total | I0,816<br>112<br>4,422<br>562<br>82<br>606                                | 16,600 |
|------|-------|---|--------|
|      | June  | 1878<br>1<br>409<br>1<br>1<br>1   | 2302   |
| 1902 | May   | 806<br>24<br>267<br>11<br>72<br>20  | 1200   |
|      | April | 676<br>12<br>505<br>108<br>12   | 1320   |
|      | March | 759<br>36<br>749<br>41<br>1<br>91   | 1677   |
|      | Feb.  | 564<br>169<br>16  | 750    |
|      | Jan.  | 807<br>637<br>39<br>11  | 1496   |
|      | Dec.  | 848<br>848<br>344<br>28   | 1222   |
|      | Nov.  | 693<br>1<br>364<br>8  | ιο69   |
|      | Oct.  | 1116<br>317<br>317<br>22  | 1490   |
| 10   | Sept. | 719<br>345<br>51<br>149   | 1264   |
| 1001 | Aug.  | 1<br>69<br>996  | 1036   |
|      | July  | 984<br>44<br>247<br>236<br>303  | 1774   |
|      |       | Purchase<br>Exchange<br>Given<br>Pamph. bound<br>From dups.<br>On deposit | Total  |

# LIBRARIAN'S REPORT

| Readers' Tickets<br>Issued 1900–1901 | 12<br>55<br>147<br>15<br>24<br>23<br>23<br>22<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27  | 372               |
|--------------------------------------|--|-------------------|
| Readers' Tickets                     | 11112408011112<br>1000010000000000000000000000000  | 3<br>248          |
| Fines 1900-1901                      | \$13.80<br>9.65<br>11.35<br>25.40<br>334.50<br>32.570<br>32.40<br>330.95<br>330.95<br>330.95<br>15.70  | \$325.55 \$335.40 |
| Fines 1901-1902                      | \$15.60<br>111.25<br>26.45<br>37.15<br>37.15<br>33.05<br>33.45<br>33.45<br>33.65<br>33.65<br>33.65<br>33.65<br>33.65<br>33.65<br>33.65<br>33.65<br>33.65<br>33.65<br>33.65<br>33.65<br>15<br>33.65<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15   | \$325.55          |
| Smallest Loaned<br>1900–1901         | 71<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>7  |                   |
| Smallest Loaned<br>1901–1902         | 765<br>765<br>765<br>765<br>765<br>765   |                   |
| Largest Loaned<br>1900–1901          | $\begin{array}{c} & 1 \\ & 2 \\$   |                   |
| Largest Loaned<br>1901–1902          | 193<br>174<br>174<br>174<br>174<br>174<br>174<br>174<br>174<br>174<br>174  |                   |
| Daily Average<br>1900-1901           | 162.0<br>162.0<br>1802.3<br>1802.0<br>435.2<br>435.2<br>4524.2<br>4524.2<br>4524.2<br>4524.2<br>156.8<br>156.8   | 334.6             |
| Daily Average<br>1901–1902           | 155.0<br>159.0<br>166.9<br>361.4<br>351.5<br>351.5<br>351.5<br>391.4<br>427.1<br>149.5   | 283.7             |
| snso.I lstoT<br>1001–0001            | 4,051<br>2,7264<br>10,881<br>10,881<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,455<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,555<br>11,5555<br>11,5555<br>11,5555<br>11,5555<br>11,55555<br>11,55555<br>11,55555555 | 86,536 103,388    |
| Total Loans<br>1901–1902             | 4,031<br>3,485<br>8,036<br>8,036<br>9,121<br>10,251<br>3,739<br>3,739  | 86,536            |
| Renewals 1900–1901                   | 980<br>1,540<br>1,540<br>1,540<br>1,545<br>1,545<br>1,730<br>1,730<br>1,730<br>1,730   | 15,540            |
| Renewals 1901–1902                   | 812<br>985<br>985<br>985<br>1,453<br>1,453<br>1,124<br>1,218<br>1,218<br>1,376<br>1,074<br>588   | 12,577            |
| 1001-0001 suso-                      | 3,071<br>3,071<br>2,141<br>2,141<br>9,562<br>9,562<br>9,562<br>9,947<br>9,947<br>11,142<br>10,234<br>10,234<br>10,234<br>10,234  | 87,848            |
| Гозля 1901–1902                      | 3, 150<br>3, 150<br>3, 150<br>3, 150<br>151<br>3, 150<br>151<br>3, 150<br>151<br>151<br>151<br>151<br>151<br>151<br>151<br>151<br>151  | 73,959            |
| Days Open<br>Days Open               | 88888888888<br>81 81 80 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8  | 309               |
| 1901–1902<br>Days Open               | 88888824470<br>87445565557470  | 305               |
|                                      | July<br>Aug.<br>Sept.<br>Oct.<br>Nov.<br>Pec.<br>Mar.<br>Mar.<br>May   |                   |

<sup>1</sup> The falling off in loans for use outside the Library shows the increasing use of the Library as a reference library. See page 242.

This statement does not include the loans from the Science Seminar, 2146 volumes; nor does it include 109,421 volumes loaned for use in the building.

No record can be kept of the use of the Library through the open-shelf system which obtains in nearly every department of this Library.

<sup>2</sup> Of this amount, \$9.70 were collected through the Science Seminar.

<sup>3</sup>Readers' tickets renewed, 1900-1, 106; 1901-2, 149.

STATISTICS OF THE USE OF THE LIBRARY

LIBRAR Y

## RECORD OF GIFTS

# 1901-1902

|  | Vols. | Pam.   |  | Vols.   | Pam. |
|--|-------|--------|--|---------|------|
|  | 1     | 1      |  |         |      |
| Aberdeen Univ. Library .                               | 2     | I      | Auburn Theol. Seminary   |         | I    |
| Actuarial Soc. of Amer                                 |       | 3      | Australasian Ass'n Adv. Sci.   |         | 1    |
| Adrian Coll  |       | I      | Austria Handelsminister.   | I       |      |
|  |       | I      | Austro-Hungarian Vice-Con-   |         |      |
| Alabama Auditor  |       | 2      | sul  |         | 213  |
| " Geol. Survey   | 2     | 3      | Auto Era   |         | 4    |
| " Mine Inspector .<br>" R'y Comm<br>" Sec'y of State . |       | I      | Automobile   |         | 7    |
| K y Comm   | I     |        | Automobile News  |         | 3    |
| " State Des Age's                                      |       | I      | Automobile Review  |         |      |
| " State Bar Ass'n .<br>" Treasurer                     | I     | I<br>T | Automobile Topics  |         | 41   |
| " Univ. (Tusca-  |       | 1 1    | Avery, S. P  | 59      | 1 7  |
| loosa)   |       | 1      | Dagel, August  | I       |      |
| Alfred University                                      |       | T      | Balch, E. S  | 1       |      |
| Allegheny-Carnegie Lib'y.                              |       | T      | Paldwin Agnos  | 2       | т    |
| Alman & Co.  | I     | 1      | Baldwin, Agnes   |         | 2    |
| Am. Acad. Polit. Soc. Sci.                             | -     | I      | " University   |         | 7    |
| " Ass'n Adv. Science .                                 |       | I      | Borbo Woitmon  | I       | -    |
| " Banker's Ass'n                                       | т     |        | Barbe, Waitman<br>Baron Saneyoshi                                    | T       |      |
| " Baptist Miss. Union                                  | -     | 2      | Bash, Mrs. J.  | r       |      |
| " Bar Ass'n  | I     | 2      | Barnard Bulletin Editors   | -       | 16   |
| " Church B'ldg Fund                                    | 1     |        | Basle Univ. Bibliothek   |         | 71   |
| Comm.  |       | т      | Batchellor A S   |         | 2    |
| " Microscopical Soc.                                   | т     | 1      | Batchellor, A. S<br>Beebe, W. H. H<br>Beer, William                  | 12      | 28   |
| " Congregat. Ass'n                                     | -     | 2      | Beer William   | 12<br>I | 40   |
| " Electro-therap. Ass'n.                               | I     | - 2    | Belgium Ministere d'Indus.   | -       |      |
| " Foundrymen's Ass'n.                                  | 1     | 123    | d of Trowoil   | 5       | 3    |
| "Hist. Ass'n   | г     | 140    | Belknap Summer Home  | 5       | I    |
| " Inst. of Architects                                  | 2     |        | Beloit College   |         | I    |
| " Inst. of Architects<br>" Inst. of Min. Eng           | ī     |        | Bemis, E. W.   |         | I    |
| " Iron and Steel Ass'n                                 | •     | г      | Berkshire Industrial Farm  |         | 12   |
| " Jewish Hist. Society                                 |       | ĩ      | Berlin Technis. Hochschule   |         | Ĩ    |
| " League Civic Improv                                  |       | ī      | " Univ. Bibliothek   |         | 183  |
| " Mathemat. Society                                    | 4     | 84     | Bernice Panahi Bishop Mu-  |         | 100  |
| " Museum Nat. Hist.                                    | - T   | 4      | seum   | r       | 6    |
| " Numismat. and Arch.                                  |       | - T    | Besanoon Université  |         | ī    |
| Constant 1   |       | I      | Birchard & Co.<br>Blackford, C. M., Jr.<br>Blackmar, F. W.           | r       |      |
| " Scenic and Historic                                  |       |        | Blackford, C. M., Ir.  |         | I    |
| Preserv. Society                                       |       | 2      | Blackmar, F. W.  | I       |      |
| SOC. P. U. A   |       | I      | Bodleian Library   |         | 3    |
| " Soc. of Civil Eng.                                   | I     |        | Bolton, Mrs. S. K.   | r       | 0    |
| " Soc. Mechan. Eng                                     | I     |        | Bonn Universität   |         | 3    |
| Amherst College  | I     | 212    | Borntraeger, Gebrüder  |         | ĩ    |
| Armour Inst. Tech                                      |       | I      | Borst, C. A  | 2       |      |
| Amsterdam Univ. Bibl.                                  |       | 68     | Boston Assoc. Charities  |         | I    |
| Anderson, W. S.<br>Andover Theol. Sem. Lib'y.          |       | I      | " Chamber Commerce   | I       |      |
| Andover Theol. Sem. Lib'y.                             |       | r      |  | I       |      |
| Argentine Repub. Dep't de                              | 1     |        | " Club of Odd Vols.<br>" Gen. Theol. Lib'y                           | I       |      |
| Relationes Exterior y                                  |       |        | Gen. Theol. Lib'y  | 2       |      |
| Cultes   |       | 4      | Museum Fine Arts   |         | 2    |
| Argentine Repub. Teachers                              |       |        | Provident Ass n  |         | I    |
| Assoc.   |       | I      |  | I       | 7    |
| Arizona Auditor  |       | 6      | Transit Com]   | I       |      |
| " University   |       | II     | University   |         | 14   |
| Arkansas Bureau of Mines .                             | I     |        | Bowditten, C. P.   |         | I    |
| " Secretary State .                                    | 2     |        | Bowditch, C. P<br>Bowdoin College<br>Bradford Carnegie Lib'y .       |         | 6    |
| " University<br>Ass'n of Amer. Anatomists .            |       | I      | Brantono's   |         | I    |
| " Low Schools  |       | 2      | Brentano's   |         | I    |
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| " Land Office   | 2     |            | " Labor Bureau .   | I      |         |
| " Railroad Commis.  | 2     |            | " Pub. Inst. Dept.   | 2      |         |
| " Salt Inspector<br>" Sec. of State   |       | 4          | State Library .  | 2      | 4       |
| Sec. of State   | 5     | 20         | Prison   | 1<br>I | 7       |
| <ul> <li>St. Agric. College .</li> <li>State Library</li> </ul>                     | 25    | 7          | New Mexico University  | 1      | 5       |
| " St. Normal Coll   | 25    | 39<br>21   | N. S. Wales Bd. Int. Exch.   | 3      | I       |
| " State Prison  | I     | 1          | Gov. Statist   | ĩ      | 13      |
| "Supt. Pub. Inst.   | T     |            | " " Linnean Soc  | I      |         |
| " Treasurer   | I     | 15         | " " Mines Dept   | 5      | 2       |
| " University  | I     | 5          | N.Y. City Accounts Com.  |        | 2       |
| Minnesota St. Agric. Soc  | 3     | 6          | I nguna mua y  |        | I       |
| " Statis. Commis  | 3     | 6          | " Ass'n for Imp.<br>Cond. of Poor  |        | T       |
| Mississippi Health Board .  |       | 5          | " Athletic Club .  | т      | 1       |
| " Indust. Inst  |       | I          | " Authors Club   | ī      |         |
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| N.Y. City Bryan Democ.                                  |       |          | N.Y. City St. Mary's Hosp                          |        | I      |
| " Brussen Day   |       | 8        | St. Micholas Soc.                                  | I      |        |
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| " Char Org Soc  | 24    | 298      | " Seaman's Chris-                                  | -      |        |
| " Char. Org. Soc<br>" Ch. of Sea and                    | ~.4   | 290      | tian Association                                   |        | I      |
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| " Citizens Union .                                      |       | 25       | " Soc. française de                                |        |        |
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| " History Club<br>" Library                             | 11    | r        | " Soc. P. C. C<br>" Society Library .              | 1      | I      |
| " Magistrates Bd  | ī     |          | " Soc. Lying-in                                    |        | -      |
| " College   |       | 2        | Hosp   |        | I      |
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| Deaconess frome   |       | 10       | I mansport. Club .                                 | _      | I      |
| LCON, PUD. CO.  | 1 2   | 28       | i innity church .                                  | I      |        |
| " Educ. Dept<br>" Engineers' Club .                     | ĩ     | 20       | " Union League<br>Club                             |        | I      |
| " Evening Post  | ī     |          | " United Hebrew                                    |        | -      |
| " Gen. Mem. Hosp.                                       |       | I        | Charities  |        | I      |
| " Gen. Mem. Hosp.<br>" Gen. Soc. Mech.<br>and Tradesmen |       |          | " University                                       |        | 5      |
| " Gospel Mission to                                     |       | 2        | Univ. Club   | I      |        |
| the Tombs   |       | I        | " Univ. Penn. Club<br>" Washington H'ts            |        | 3      |
| " Grolier Club  | 7     | 1        | Library  |        | I      |
| " Harlem Eye, Ear,                                      | · ·   |          | " Webb's Acad                                      |        | I      |
| and Throat Inf.   |       | I        | " Webster Library.                                 |        | I      |
| "Historical Soc   |       | 2        | WORKING GITS                                       |        |        |
| " Home for Incur.                                       |       | I        | Vacation Soc<br>"Yacht Club<br>"Y. M. C. A         |        | 1 2    |
| " Homœp. Med.<br>Coll.                                  |       | I        | " VMCA   |        | 12     |
| " Hosp. Saturday  |       | î        | " Zoölogical Soc.                                  |        | 2      |
| and Sun. Ass'n  |       | I        | N.Y. St. Ass'n Opposed to                          |        |        |
| " House of the An-                                      |       |          | the Suffrage of                                    |        |        |
| nunciation  | I     | _        | Women  |        | I      |
| " Indian Ass'n<br>" Inf. for Women                      |       | I        | " Attorney-General<br>" Bar Association .          | I      |        |
| " Inf. for Women<br>and Children .                      |       | г        | " Chamber of Com                                   | ī      |        |
| " Inst. for Blind .                                     |       | ĩ        | " Charities Board .                                | 4      |        |
| " Inst. for Inst. of                                    |       |          | " Char. Aid Ass'n .<br>" Civil Service Com.        |        | 6      |
| Deaf and Dumb   |       | I        | " Civil Service Com.                               | I      |        |
| " Isabella Heimath                                      |       | г        | " Coll. of Forestry .<br>" Comptroller             | г      | 4      |
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| " Metal Exchange .                                      | I     |          | " Railroad Com                                     | 2      |        |
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| " Midnight Mission<br>" Mt. Sinai Hosp                  |       | ĩ        | University   | 8      | 54     |
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| New Eng. Soc  |       | I        | Newark Educ. Board                                 |        | r      |
| " No. East. Disp<br>" North. Disp                       |       | I<br>T   | Newton (Mass.) Printing<br>and Stationery Board    | I      |        |
| " Parks Dep't   | 5     |          | Niagara Falls Pub. Library                         | 1      | г      |
| " PennsylvaniaSoc."                                     | I     |          | Niederlein, Gustavo                                |        | î      |
| " People's Inst   |       | I        | Noa, F. M  | I      | 24     |
| " Public Library .                                      |       | 102      | Noa, F. M  | I      |        |
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| " St. Francis Hosp.                                     |       | 15<br>1  | " Univ. Library                                    |        | 3      |
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# LIBRARIAN'S REPORT

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| No. Dakota Agri. Exp. Sta.   |        | I        | Princeton Theol. Seminary .  |          | I        |
| No. Dakota Agri. Exp. Sta.<br>"University".<br>North Hempstead Town Bd | 1<br>5 | 6        | P. E. Ch. Missionary Soc<br>" " of Albany  |          | 1 2      |
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| Ohio Archæolog. and Hist.  |        |          | Prudential Insurance Co.   |          | I        |
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| Omaha University Lib'y .<br>Ontario Agric. Dep't .                     |        | 13<br>9  | Raymond, R. W  | 10<br>18 | 102      |
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| " Mining Journal Co<br>" Sec. of State                                 | I      | I<br>I 2 | " Treasurer<br>" Health Board .  | I        |          |
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| Osgood, H. L   |        | I        | "Com<br>"R.R. Commis   | 2<br>I   |          |
| Page, W. H   | I      |          | " Soldiers' Relief<br>Board  | г        |          |
| Pan-American Exposition .  | 1      | I        | Rhodes, J. F   | 4        |          |
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| Parsons College<br>Paterson Free Pub. Library                          |        | I        | Rochester Reynolds Lib'y .<br>"State Hospital .                                    |          | I        |
| Pellew, C. E.  | 2      | 1        | " University   |          | 3        |
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| " Prison Soc<br>" Sec. Inter.  |        | I        | Rose Polytechnic Inst.   |          | I        |
| Affairs  | I      |          | Rosenbach, S. W.<br>Rosengarten, J. G.<br>Rostock University                       |          | I        |
| " St. Coll. Lib'y<br>" St. Library                                     | 70     | 19       | Rostock University<br>Royal Dublin Society   |          | 50<br>8  |
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| " F. I   | I     |          | Tokio Imp. University   | _        | 8    |
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| Sherwood, W. L   |       | 5        | Tompkins, H. B.   |          |      |
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| " Co. Free Lib'y                        |       | 2    | " Public                   |          |        |
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| White, Van Glahn & Co.                  | 1     |      |                            | 3.071    | 23,272 |
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| Archduke Ludwig Salvator         | 1 Chart   |
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Mr. W. C. Hamm has given a large and complete collection of newspaper clippings, on politics in the different States.

17 Cases of Chinese publications have been received from the Chinese Government.

Mrs. S. M. Dibblee gave 335 volumes from the library of her son, Frederick W. Dibblee (deceased), Columbia Arts '80, Law '82, for Earl Hall.

## THE GYMNASIUM

## REPORT OF THE DIRECTOR

FOR THE YEAR ENDING JUNE 30, 1902

### To the President of Columbia University in the City of New York,

Sir:

I have the honor to submit the following report of the work of the Gymnasium Department for the academic year 1901-02.

The staff given in my last report has continued to serve throughout the present year with the exception of a minor change in office-boy attendance. The plan of instruction has been the same as in the past; the work of the office, expanding with four years' use of the Gymnasium, is well ordered and arranged; and the administration of the department in every direction has moved with ease and efficiency.

The steady growth of the required classes and the increased interest in the optional work made it seem advisable to add to the number of hours for instruction. A morning period was added on Tuesdays and Thursdays for Freshmen and First-Year men, thus providing for regular instruction at 10.30, 11.30, and 12.30 on four days of the week. This freedom of hours made it possible for the students to avoid conflicts with other courses and also served to reduce the size of these divisions. The afternoon class on Mondays, Wednesdays, and Fridays, open to law, graduate, and advanced students, was likewise given on two other days of the week. The average attendance on three of these days for the past two years furnishes an interesting comparison:

| Month | 1900-1901 | 1901-1902 |
|-------|-----------|-----------|
| Oct.  | 16        | 28        |
| Nov.  | 24        | 42        |
| Dec.  | 25        | 38        |
| Jan.  | 22        | 42        |
| Feb.  | 23        | 32        |
| Mar.  | 26        | 40        |

Owing to the number of entrances to the Gymnasium due to connections with the new story overhead, it was found impracticable to keep an accurate count of the men making use of the building. As showing, however, the increase in general efficiency, the following table will be most convincing:

#### ATTENDANCE ON MAIN FLOOR

(EXCLUDING SATURDAYS AND HOLIDAYS)

|      |         | 1000-1001 | -       |         | 1901-1902 | -       |
|------|---------|-----------|---------|---------|-----------|---------|
|      | Monthly |           | Daily   | Monthly |           | Daily   |
|      | total   | Divisor   | average | total   | Divisor   | average |
| Nov. | 4,412   | (20)      | 220.6   | 3,196   | (9)       | 355     |
| Dec. | 2,810   | (14)      | 200.7   | 4,259   | (14)      | 304     |
| Jan. | 3,502   | (18)      | 194.5   | 5,005   | (15)      | 334     |
| Feb. | 3,426   | (17)      | 201.5   | 3,900   | (11)      | 354     |
| Mar. | 3,914   | (21)      | 186.5   | 4,684   | (16)      | 293     |
| Apr. | 2,415   | (19)      | 127.1   | 1,755   | (6)       | 292     |
|      | 20,479  | (109)     | 187.    | 22,799  | (71)      | 321     |

During the year a slight increase was noted in the use of the swimming-pool, the figures showing a total attendance of 22,861 as against 21,975 for the same period last year. Fifty students were taught to swim and much more instruction was given in advanced swimming than ever before. In this connection I beg to call your attention to my letter of March 18, in which it was recommended that Mr. Holroyd be allowed to give his entire time to teaching and that separate provision be made for the care of the pool.

For the first time there is prospect that our accommodations will soon be outgrown, since the number of lockers unused this year is less than the regular increase in the demand. Out of 1472 lockers, there were assigned to students during the year 1418 lockers, or 123 more than in the year previous. While lockers (44 in number) in the crew rooms will afford relief at the first shortage, it is evident that provision must be made in the near future for the extension of the large locker room and an increase in the number of lockers.

Over one thousand physical examinations have been made during the year, and 395 pass cards have been issued to candidates for athletic teams: 180 of this number received first-grade cards; 201 received second-grade cards; and the remaining 14 received third-, or lowest-, grade cards. About a dozen others were barred from various grades of athletics. The Director's office has been visited more freely for consultation and inquiry as to medical treatment, and over one hundred dressings and minor operations have been made during the year. It is gratifying to note that accidents within the department have been almost nil, there being none whatever of a serious nature. Such a record of safety reflects great credit upon the watchfulness and judgment of the floor and pool instructors.

The number of applications received for instructors in gymnastics is a new and welcome feature. Such positions have been recorded from over twenty colleges, schools, and other institutions, and several of this number, local in character, have been filled by students of the University. In offering these places, a difficulty appears in the fact that students taking up such work become professionals and are barred from further participation in college athletics. It has been impossible to fill the college positions recorded in the files of the office, since men have not been attracted to Columbia, heretofore, to prepare for this branch of teaching. We therefore welcome the institution of such a course at Teachers College, the need of which was observed to President Low in my letter of February 18, 1901.

An appeal to secure a place for the display of athletic trophies was repeated by the Director early in the year and met with prompt and complete action on the part of the students. A committee was organized to undertake this task, rooms for the reception of trophies won for Columbia were turned over to the organization, and such trophies in the care of the Director were put in its charge. Trophies have since been recovered and gifts added to this collection, which is accessible at all times, the key being obtainable at the office of the Gymnasium upon proper application.

An active interest has been taken in all branches of indoor sport, and the season also has been successful from the standpoint of competition with other colleges. The interesting factor in these contests is the steady improvement noted in the Columbia teams during the progress of the season, so that an excellent showing was made in the important meeting at the close. These teams, in the first three instances, are direct representatives of the department in athletics, and their achievements throw credit upon the instructors in the department, who began the season in some cases with comparatively raw material. The Gymnastic Team gained second honors in the intercollegiate meets and was first among the colleges in the national championships. The Water Polo and Relay Swimming Teams retained the intercollegiate championship, and the Water Polo Team was the first to score against the famous Knickerbocker Athletic Club champion team since 1900, and the first to score against the Club at any time in the latter's pool. In the Intercollegiate Strength Competition, Columbia raised her standard 7377.2 points, taking second place to Harvard in the greatest contest on record to date. The average strength of our own best fifty men is this year greater than that of last year's intercollegiate fifty. The individual record of the University in this contest was subsequently raised from 1814 points to 2072.2 points, which is the third highest college test recorded. In the final fencing contest, Columbia took second place, and one of her men tied for the individual championship. For the first time to our knowledge, intercollegiate handball games were played, both matches being won by the University team. The Varsity Basketball Team tied with Yale for first place, thus equalling the general success of our other teams.

With regard to the condition of the athletic grounds at Williamsbridge, little need be added to my reports of the past two years, other than a statement of the use made of the Oval. During the season the track, lacrosse, and class baseball teams made use of the field for part of their schedules. The outside organizations using the grounds were the Columbia Oval Cricket Club, Trinity, Drisler, Cutler, Sachs, and De La Salle Schools, the Interscholastic Athletic Association, and the McKim, Mead, and White Baseball Teams. The total income derived from this source amounted to \$880, as against \$600 last year, while the expenses foot at \$600 for Caretaker and \$153.72 for Repairs and Supplies.

Respectfully submitted,

>

WATSON L. SAVAGE, Director of the Gymnasium.

## COLUMBIA UNIVERSITY

### REPORT OF THE REGISTRAR

#### FOR THE ACADEMIC YEAR ENDING JUNE 30, 1902

To the President of Columbia University in the City of New York,

Sir:

I have the honor to submit herewith the annual report of the Registrar of the University for the academic year ending June 30, 1902. The usual statistics are herein included, consisting in the main of two distinct categories: first, tables indicating the enrollment, geographical distribution, and previous collegiate preparation of our students, together with certain Commencement statistics; second, tables relating to the enrollment of students in all departments of the University Corporation (*i. e.*, exclusive of Barnard College and Teachers College).

It is gratifying to report that the University's sphere of influence has been considerably extended during the year now closing: 5134 students have been enrolled in the various schools of the affiliated institutions, as compared with 4440 students enrolled during 1900-1901, representing a gain of 15.63 %. In the University Corporation alone, inclusive of the Summer Session, the enrollment increased from 3145 to 3481, a gain of 10.68 %. Exclusive of the Summer Session, the increase has been from 2728 to 2902, a gain of 6.37 %. There has been a gain in every department of the University, except in the class of auditors. A comparison of Table I, submitted herewith, with the corresponding table for 1000-1001 (President's Report, 1901, p. 246), readily furnishes the following percentages of gains for the respective faculties: Columbia College, 3.36 %; Barnard College, 12.62 %; graduate faculties of Political Science, Philosophy, and Pure Science, 17.32 %; Faculty of Applied Science, 10.60 %; Faculty of Law, 4.02 %; Faculty of Medicine, 1.50 %; Teachers College, 20.08 %; Summer Session, 38.85 %; Extension Students, 32.55 %; Auditors, 22.22 % (loss).

#### TABLE I

|  | -                 |                   |                       |             |               |                                       |   |
|--|-------------------|-------------------|-----------------------|-------------|---------------|---------------------------------------|---|
| FACULTIES  | First Year        | Second Year       | Third Year            | Fourth Year | Specials      | Graduates                             | Total                                   |
| Columbia College.<br>Barnard College.<br>Total undergraduates  | 142<br>98         | 102<br>72         | 99<br>48              | 94<br>51    | 55<br>70      | · · · · · · · · · · · · · · · · · · · | 492<br>339<br><b>831</b>                |
| Faculties of Political Science,<br>Philosophy, and Pure Science {<br>Total non-professional gradu-<br>ate students {<br>(*)  |                   | <br>              |                       | <br>        | 12<br>        | 496<br>                               | 508<br><b>508</b>                       |
| Faculty of Applied Science<br>Faculty of Law<br>Faculty of Medicine.<br>Teachers College (†).<br>Total professional students | 193<br>162<br>253 | 158<br>150<br>198 | 130<br>126<br>179<br> | 91<br>148   | 43<br>2<br>31 | II<br>                                | 626<br>440<br>809<br>634<br><b>2509</b> |
| Deduct double registration (‡)<br>Net total resident students in }<br>the University }                                       |                   |                   |                       |             |               |                                       | 134<br>3714                             |
| Summer Session 1901<br>Auditors<br>Teachers College extension students (§)<br>Total occasional students and auditors         |                   |                   |                       |             |               |                                       | 579<br>27<br>900<br><b>1506</b>         |
| Deduct double registration (  )<br>Net total occasional students }<br>and auditors   |                   |                   |                       |             |               |                                       | 86<br>1420                              |
| Grand net total  |                   |                   |                       |             |               |                                       | 5134                                    |

#### REGISTRATION AT COLUMBIA UNIVERSITY, IN ALL FACULTIES, DURING THE ACADEMIC YEAR 1901-1902

\* The total 508 does not include 94 college graduates studying under the professional faculties of Law, Medicine, and Applied Science, who are also candidates for the degree of A.M. or Ph.D.

† For a statistical classification of students primarily enrolled in Teachers College, consult the report of the Dean of Teachers College, p. 193.

<sup>‡</sup> The 134 are distributed as follows: 12 students in Columbia University and 38 in Barnard College are also enrolled in Teachers College as candidates for a professional diploma; 84 Teachers College students are enrolled in the graduate faculties as candidates for the higher degrees.

§ Teachers College extension students enjoy the same rights and privileges, and are subject to the same conditions, in the courses for which they enroll, as the regular students of the College.

|| This includes those Summer Session students of 1901 who returned for work at the University during the academic year 1901–1902. The geographical distribution of students in the University Corporation, shown in Table II, embraces 45 states, 4 territories, and 12 foreign countries. I have indicated in parentheses after the names of the various divisions the percentages of representation from the respective divisions. It may be of interest to compare these percentages with the corresponding percentages for the year 1900–1901, which are herewith given:

|                         | 1902  | 1001  |
|-------------------------|-------|-------|
| North Atlantic Division | 84.93 | 84.34 |
| South Atlantic Division | 2.40  | 2.45  |
| South Central Division  | 2.19  | 2.78  |
| North Central Division  | 5.87  | 5.94  |
| Western Division        | 3.02  | 2.82  |
| Insular Territories     | 0.03  | 0.15  |
| Foreign Countries       | I.5Ō  | I.52  |

#### TABLE II

RESIDENCES OF STUDENTS-(A) THE UNITED STATES

| 1901-1902                                   | College | Law                                   | Medicine         | Applied<br>Science | Political<br>Science                  | Philosophy                            | Pure Science                          | Total       |
|---|---------|---------------------------------------|------------------|--------------------|---------------------------------------|---------------------------------------|---------------------------------------|-------------|
| North Atlantic Division (84.93 %):          | 468     | 342                                   | 711              | 539                | 100                                   | 236                                   | 46                                    | 2442        |
| Connecticut<br>Maine                        | 5       | 6                                     | 38<br>4          | 15<br>1            | I                                     | 3                                     | 2<br>I                                | 70<br>11    |
| Massachusetts                               | 3       | 9                                     | 31               | 4                  | 5                                     | 9                                     | I                                     | 62          |
| New Hampshire                               |         | 17                                    | 4<br>100         | 1<br>50            | I<br>IO                               | <br>19                                | I                                     | 260<br>260  |
| New Jersey<br>New York *                    | 397     | 294                                   | 496              | 457                | 77                                    | 192                                   | 38                                    | 1951        |
| Pennsylvania                                | 7       | 13                                    | 12               | 10                 | 3                                     | 6                                     | I                                     | 52          |
| Rhode Island<br>Vermont                     | 2       | 2                                     | 12<br>5          | I                  | 2                                     | 1<br>2                                | I                                     | 19<br>10    |
|   |         |                                       |                  | 1                  |                                       |                                       |                                       |             |
| South Atlantic Division (2.40 %):           | 4       | 18                                    | 21<br>1          | II                 | 3                                     | 11                                    | I                                     | 69          |
| Delaware.<br>District of Columbia           | 2       | 3                                     | I                | 2                  |                                       | 2<br>I                                |                                       | 5           |
| Florida                                     |         |                                       | 38               |                    |                                       |                                       |                                       | 3           |
| Georgia                                     | I       | 9<br>1                                | 1                | 2                  | 2                                     | 1<br>2                                | • • • • •                             | 23          |
| Maryland<br>North Carolina                  |         | I                                     | 4                | 4                  | · · · · · · I                         | 3                                     |                                       | 7<br>10     |
| South Carolina                              |         | 2                                     | I                |                    |                                       | 2                                     |                                       | 5           |
| Virginia.                                   | I       | I                                     | 2<br>I           | II                 | 1                                     |                                       | • • • • •                             | 5<br>2      |
| West Virginia                               |         |                                       | 1                |                    |                                       |                                       |                                       |             |
| South Central Division (2.19 %):            | 8       | 17                                    | 20               | 2<br>I             | 7<br>1                                | 8<br>1                                | I                                     | 63          |
| Alabama<br>Arkansas                         | 1       | · · · · · · · · · · · · · · · · · · · | 3                | ł <sup>1</sup> .   | I I                                   | 1                                     |                                       | 7<br>4      |
| Kentucky                                    | I       | 6                                     | 6                |                    | 2                                     | I                                     |                                       | 16          |
| Louisiana<br>Mississippi                    | I       | I                                     | I                | I                  | · · · · · · · · · · · · · · · · · · · |                                       | · · · · · · I                         | 2           |
| Oklahoma                                    | ··· ·   |                                       | l <sup>1</sup> . | 1                  | 1                                     | 3<br>1                                |                                       | 7<br>1      |
| Tennessee                                   |         | 7                                     | 2                |                    | I                                     |                                       |                                       | 10          |
| Texas                                       | 5       | 2                                     | 6                |                    | I                                     | 2                                     |                                       | 16          |
| North Central Division (5.87 %):            | 8       | 45<br>8                               | 32               | 23                 | 27                                    | 27                                    | 7                                     | 169         |
| Illinois.                                   | 2       | 8                                     | 35               | 3                  | 6                                     | 4                                     |                                       | 24<br>22    |
| Indiana<br>Iowa                             | I       | 96                                    | 2                | 1                  | 2                                     | 4                                     | 2                                     | 18          |
| Kansas                                      |         | I                                     |                  |                    | I                                     |                                       | I                                     | 3<br>16     |
| Kansas<br>Michigan<br>Minnesota<br>Missouri | I       | 2                                     | 3<br>I           | 3                  | 4                                     | 53                                    | I                                     | 10<br>9     |
| Missouri                                    | 1 1     | 4                                     | 2                | 4                  | II                                    |                                       | ī                                     | 13          |
| Nebraska                                    |         | 4                                     | I                | 2                  |                                       | 3                                     |                                       | 10          |
| North Dakota<br>Ohio                        | ·····   | 3                                     | ·····            | 16                 | 6                                     | 4                                     | · · · · · · · · · · · · · · · · · · · | 3<br>37     |
| South Dakota                                | Î       |                                       |                  | 2                  | <sup>.</sup> .                        | I                                     |                                       | 4           |
| Wisconsin                                   |         |                                       | 4                |                    | 5                                     | I                                     | • • • • •                             | 10          |
| Western Division (3.02 %):                  | 3       | 16                                    | 12               | 36                 | 7                                     | <b>9</b><br>8                         | 4                                     | 87          |
| California                                  | 1       | 4                                     | 3                | 5                  | 5                                     |                                       |                                       | 26          |
| Colorado<br>Idaho                           | I       | 2<br>I                                | 2                | 10                 |                                       |                                       | 2                                     | 17<br>1     |
| Montana                                     | I       | 2                                     | 2                | 5                  | 1                                     |                                       |                                       | 10          |
| Nevada                                      |         | I                                     | I                |                    | 1                                     | 1                                     |                                       | 2           |
| New Mexico<br>Oregon                        | 1       | 3                                     | ····             | 4                  |                                       | · · · · · · · · · · · · · · · · · · · | I                                     | 5<br>7<br>8 |
| Utah  |         |                                       |                  | . 8                |                                       |                                       |                                       | 8           |
| Washington<br>Wyoming                       |         | 3                                     | II               | 3                  | 2                                     |                                       |                                       | 9<br>1      |
|   |         | 1                                     |                  |                    | 1                                     | 1                                     |                                       |             |
| Insular Territory (0.03 %):<br>Porto Rico   |         |                                       | I                |                    | • • • • • •                           |                                       |                                       | III         |
|   | ·       |                                       | -                |                    |                                       |                                       |                                       |             |
| Total (98.44 %)                             | 491     | 438                                   | 796              | 611                | 144                                   | 291                                   | 59                                    | 2830        |
|   | J       |                                       |                  |                    | -                                     |                                       | 1                                     |             |

\* 1623 students claim New York City for their permanent residence, distributed among the faculties as follows: College, 343; Law, 235; Medicine, 404; Applied Science, 397; Graduate Faculties of Political Science, Philosophy, and Pure Science, 244.

### TABLE II (continued)

### (B)-FOREIGN COUNTRIES

| 1901-1902  | College                               | Law   | Medicine                   | Applied<br>Science | Political<br>Science | Philosophy     | Pure Science  | Total  |
|--|---------------------------------------|-------|----------------------------|--------------------|----------------------|----------------|---|--|
| Australia.<br>Canada.<br>Cuba<br>England.<br>Germany.<br>Japan.<br>Mexico.<br>Russia.<br>South Africa.<br>South America. | · · · · · · · · · · · · · · · · · · · | I<br> | I<br>4<br>5<br>I<br>I<br>I |                    | I<br>                | 2<br><br>I<br> | I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | 2<br>10<br>8<br>5<br>1<br>3<br>9<br>3<br>1<br>1<br>2 |
| Total  | r                                     | 2     | 13                         | 15                 | 9                    | 3              | 2   | 45   |
| Grand Total (1.56 %):  | 492                                   | 440   | 809                        | 626                | 153                  | *294           | 61  | 2875   |

Table III is of a comparative nature, indicating the geographical distribution of students since 1891.

\* 85 of these are registered in Teachers College.

### TABLE III

# COMPARATIVE TABLE SHOWING THE GEOGRAPHICAL DISTRIBUTION OF STUDENTS SINCE 1891

| (A)—THE UNITED | STATES |  |
|----------------|--------|--|
|                |        |  |
|                |        |  |

|  | 1891   | 1892   | 1893   | 1894   | 1895                                    | 1896  | 1897   | 1898  | 1899  | 1900  | 1901  | 1902  |
|--|--|--|--|--|---|---|--|---|---|---|---|---|
| North Atlantic Division:<br>Maine<br>Vermont<br>Massachusetts<br>Rhode Island<br>Connecticut<br>New York<br>New Jersey<br>Pennsylvania   | 4<br>8<br>5<br>27<br>15  | 6<br>5<br>30<br>12   | 6<br>5<br>7<br>35<br>8<br>33                                     | 1585<br>10<br>6<br>8<br>37<br>9<br>30<br>1246<br>212<br>27           | 8<br>6<br>9<br>42<br>12<br>40           | 14<br>4<br>6  | 14<br>9<br>36<br>8   | 1848<br>10<br>3<br>13<br>41<br>10<br>54<br>1433<br>237<br>47              | 9<br>4<br>6<br>37<br>11<br>58   | 9<br>4<br>10<br>62<br>11<br>70<br>1630<br>230 | 2273<br>12<br>4<br>13<br>57<br>18<br>63<br>1799<br>256<br>51        | 2442<br>II<br>7<br>10<br>62<br>19<br>1951<br>260<br>52                  |
| South Atlantic Division:<br>Delaware.<br>Maryland.<br>District of Columbia<br>Virginia.<br>West Virginia.<br>North Carolina.<br>South Carolina.<br>Georgia.<br>Florida.            | 6<br>T   | 32<br>I<br>5<br>6<br>4<br>3<br>6<br><br>7<br>                    | 38<br>5<br>7<br>3<br>5<br>2<br>5<br>3                            | 31<br>1<br>8<br>3<br>5<br>5<br>2<br>3<br>3<br>1                      | 3<br>4<br>2<br>1<br>2                   | 30<br><br>5<br>3<br>5<br>1<br>2<br>2<br>10<br>2     | 41<br><br>5<br>5<br>9<br>2<br>12<br>1                              | 47<br><br>10<br>4<br>8<br>2<br>14<br>3                                    | 45<br>2<br>5<br>3<br>10<br>2<br>8<br>2<br>11<br>2                     | 1<br>20                                       | 66<br><br>9<br>3<br>12<br>5<br>22<br>2                              | 69<br>5<br>7<br>9<br>5<br>2<br>10<br>5<br>23<br>3                       |
| South Central Division:<br>Kentucky.<br>Tennessee<br>Alabama.<br>Mississippi.<br>Louisiana.<br>Texas.<br>Arkansas.<br>Oklahoma.  | 24<br>4<br>4<br>3<br>2<br>2<br>6<br>3<br>                              | 21<br>5<br>7<br>3<br>1<br>1<br>4                                 | <b>30</b><br>9<br>6<br>4<br><br>3<br>8                           | 42<br>11<br>6<br>7<br><br>16<br>1<br>                                | 41<br>14<br>5<br>8<br><br>12<br>12<br>1 | 34<br>10<br>8<br>6<br><br>9<br>                     | 35<br>8<br>7<br>7<br>1<br>2<br>5<br>4<br>1                         | 47<br>10<br>9<br>10<br>2<br>2<br>11<br>2<br>1                             | 9   | 13<br>5<br>8<br>3<br>2                        | 75<br>22<br>14<br>13<br>2<br>3<br>15<br>4<br>2                      | 63<br>16<br>10<br>7<br>7<br>2<br>16<br>4<br>1                           |
| North Central Division:<br>Ohio<br>Indiana.<br>Illinois.<br>Michigan.<br>Wisconsin.<br>North Oakota.<br>North Dakota.<br>South Dakota.<br>Nebraska.<br>Kansas.<br>Indian Territory | 73<br>200<br>1<br>15<br>3<br>12<br>5<br>3<br>9<br><br>3<br>1<br>1<br>1 | 65<br>19<br>4<br>10<br>3<br>10<br>6<br>5<br>4<br><br>2<br>1<br>1 | 81<br>25<br>4<br>6<br>4<br>13<br>8<br>7<br>5<br>1<br>3<br>4<br>1 | 97<br>28<br>8<br>16<br>7<br>10<br>8<br>4<br>6<br>2<br><br>4<br>4<br> | 6<br>14<br>2<br>1                       | 5<br>9<br>3<br>13<br>11<br>8<br>17<br>3             | 115<br>37<br>10<br>12<br>7<br>8<br>6<br>12<br>9<br><br>6<br>7<br>1 | 130<br>37<br>11<br>19<br>7<br>13<br>7<br>13<br>12<br>1<br><br>2<br>7<br>1 | 133<br>25<br>17<br>24<br>10<br>11<br>8<br>11<br>11<br>2<br>7<br>6<br> | 34<br>24<br>23<br>16<br>9<br>8<br>8           | 160<br>41<br>20<br>11<br>5<br>8<br>13<br>17<br>2<br><br>10<br>3<br> | 169<br>37<br>22<br>24<br>16<br>10<br>9<br>18<br>13<br>3<br>4<br>10<br>3 |
| Western Division:<br>Montana<br>Wyoming.<br>Colorado<br>New Mexico<br>Arizona<br>Utah.<br>Nevada<br>Idaho<br>Washington.<br>Oregon<br>California                                   | I  | 1<br>2<br>5  | 3<br>I<br><br>3<br>  | 277<br>I<br>I<br>I<br>I<br>I<br>I<br>88<br>I<br>I                    |   | 27<br>3<br>1<br>2<br><br>2<br><br>1<br>4<br>1<br>13 | 38<br>4<br><br>4<br><br>4<br>5<br>14                               | 45<br>4<br>12<br>1<br>5<br><br>4<br>3<br>15                               | 55<br>8<br>2<br>12<br>1<br>1<br><br>6<br>3<br><br>1<br>3<br>19        |   | 76<br>8<br>1<br>21<br>3<br>1<br>9<br>1<br><br>4<br>5<br>23          | 86<br>10<br>1<br>7<br>5<br>8<br>2<br>1<br>9<br>7<br>20                  |
| Insular and Non-contigu-<br>ous Territories:<br>Alaska<br>Hawaiian Islands<br>Porto Rico   |  | · · · · · · · · · · · · · · · · · · ·                            | I<br>  | I<br>  |   | I<br>   |  | <br><br>  | I<br>   | 3<br><br>                                     | 4<br><sup>2</sup><br>2  | I<br><br>I  |
| Total  | 1729   | 1542   | 1614   | 1783   | 1911                                    | 1839  | 1895   | 2117  | 2170  | 2407  | 2654  | 2830  |

### TABLE III (continued)

### (B)-FOREIGN COUNTRIES

|  | 1891      | 1892 | 1893    | 1894        | 1895    | 1896    | 1897    | 1898     | 1899 | 1900        | 1001      | 1902    |
|--|-----------|------|---------|-------------|---------|---------|---------|----------|------|-------------|-----------|---------|
| North America:   | 10        |      | 15      | 18          | 22      | 21      | 14      | 18       | 15   | 18          | 20        | 21      |
| Bermuda<br>Canada  | I         |      | 1<br>7  | 10          |         | <br>I 2 | 7       | II       | IO   |             | 6         | 10      |
| Central America<br>Costa Rica                              |           |      | 2       | 1           | 2       | 3<br>1  |         |          |      | • • • •     | I         |         |
| Cuba   | 2         | I    | 2       | 4           | 4       | 4       | 4       | 5        | 4    |             | 7         | 8       |
| Mexico<br>Porto Rico                                       | I         |      | 2       | I           |         | I       | 2       | 2        | I    | 4           |           | 3       |
| Santo Domingo  | 1         |      |         |             | I       |         | ••••    |          |      |             |           | • • • • |
| West Indies  |           | I    | • • • • | • • • •     |         |         | 1       |          |      |             |           | • • • • |
| South America: .<br>Brazil                                 | 2         |      |         |             | 3       | I       | ••••    | • • • •  |      | I<br>       | 2         | 2       |
| Perit  | 1 1       | T 1  | т       |             |         |         |         |          |      |             |           |         |
| U. S. of Colombia<br>Unclassified                          | I         | 2    | 3       |             |         | I       | • • • • |          |      |             | · · · · 2 | ••••    |
|  |           |      | 1       |             |         |         |         |          |      |             | -         |         |
| Europe:<br>Austro-Hungary                                  | 5         | 1 1  | 1 2     |             | -       | 2       | 5       | 13       | 7    | 7           | 8         | 7       |
| Austro-Hungary<br>England<br>France<br>Germany<br>Ireland. | 1 I       |      |         |             |         |         |         |          |      | 2           | 6         | 5       |
| France   | 1 2       | I    | I       | I           |         | I       |         | • .• • • |      | I           |           | I       |
| Ireland  | 1         |      |         |             |         |         | I       | I        |      | I           |           | · · • • |
| Italy.<br>Russia.<br>Scotland.                             | 1         | 1 2  |         |             | · · · · | I       |         |          |      |             |           | 1       |
| Scotland   |           |      | I       |             |         |         | <br>I   | I        |      |             |           | • • • • |
| Spain.<br>Sweden   | I         | 1    | ı       | 1           | 1       |         |         |          |      |             | I         |         |
| Switzerland  | 1         | 1    |         |             |         |         | 2       | I        |      | · · · · · I | ••••      |         |
| Turkey   | I         |      |         |             |         |         | 2       | 1        |      |             |           |         |
| Asia:<br>Asia Minor  | 5         | 3    |         |             |         | 7       | 3       |          |      |             | 8         | 12      |
| China  | . I       | 1    |         |             |         |         |         |          |      |             |           |         |
| India<br>Japan   |           |      |         | · · · · · I |         | 7       |         | 3        |      | <br>I4      | 6         | 3       |
| Persia   |           |      |         | 1           |         |         | 3       | I        | I    | I           | 1         |         |
| Syria  | • • • • • | 1    | I       | 1           |         |         | • • • • |          |      | I           | 1         |         |
| Africa:  |           |      |         | · · · · ·   |         |         | I       |          |      |             | 2         | 1       |
| Egypt<br>Liberia   |           |      |         | <br>        |         |         |         |          |      |             |           |         |
| South Africa   | • • • • • |      |         |             |         |         | I       | I        | 3    | 2           | 2         | 1       |
| Australia:   |           |      |         |             |         |         |         | ••••     |      | I           | I         | 2       |
| Oceanica:  | ·         |      |         |             | I       |         |         |          |      |             |           |         |
| Hawaiian Is  |           |      |         |             | 1       |         |         |          |      |             |           |         |
| Total  | 22        | 2 31 | 27      | 22          | 32      | 32      | 26      | 40       | 38   | 45          | 41        | 45      |
|  |           |      |         |             |         |         |         |          |      |             |           | 0       |
| Grand Total *  | 1751      | 1573 | 1641    | 1805        | 5 1943  | 1871    | 1921    | 2157     | 2208 | 2452        | 2695      | 2875    |
|  |           |      |         |             |         |         |         |          |      |             |           |         |

41.6% of our students are graduates of institutions of collegiate rank, as compared with 40.3% in 1901. These 1197 students are graduates of 220 higher institutions of learning in the United States, and of 34 similar institutions in foreign countries. Detailed information covering this point is to be found in Table IV.

\* Exclusive of auditors.

# TABLE IV

### PARENTAGE OF DEGREES

### (A)-HIGHER INSTITUTIONS IN THE UNITED STATES

| 1901-1902  | College          | Law                                   | Medicine                              | Applied<br>Science | Political<br>Science | Philosophy | Pure Science | Total       |
|--|------------------|---------------------------------------|---------------------------------------|--------------------|----------------------|------------|--------------|-------------|
| Adelphi College<br>Alabama Polytech. Inst.<br>Albany Medical College.<br>Albion College, Mich.<br>Alfred University, N. Y.<br>Alma College, Mich.<br>Amherst College.<br>Armour Inst. of Tech.<br>Austin College.<br>Baker University.<br>Balter University.<br>Bates College.<br>Bellevue Hospital Med. Coll., N. Y.<br>Bellevue Hospital Med. Coll., N. Y.<br>Beloit College.<br>Berea College.<br>Berea College.<br>BlackDurn University.<br>Black Hills College.<br>Boxton University.<br>Black Hills College.<br>Booklyn Polytech. Inst.<br>Brown University.<br>Bryn Mawr College.<br>Buckhell University.   |                  |                                       |                                       |                    |                      |            |              |             |
| Alahama Polytoph Inst  |                  |                                       | • • • • •                             |                    | 2                    | 5          |              | 7           |
| Albany Medical College   |                  |                                       | 1                                     | I                  | I                    | • • • • •  | • • • • •    | 3<br>1      |
| Albion College, Mich   |                  |                                       | 1                                     |                    |                      | 2          | •••••        | 2           |
| Alfred University, N. Y  |                  |                                       | т                                     |                    |                      | 2          |              | ő           |
| Alma College, Mich   |                  | I                                     |                                       |                    |                      |            |              | r           |
| Amherst College  |                  | 8                                     | 5                                     | 1                  | 7                    |            | I            | 22          |
| Armour Inst. of Tech.  |                  |                                       |                                       | I                  |                      |            |              | I           |
| Baker University   | · · · <i>· ·</i> | I                                     |                                       |                    |                      |            | • • • • •    | I           |
| Baldwin University   | · · • · ·        |                                       |                                       |                    | 1                    |            |              | I           |
| Bates College  | •••••            | 1                                     |                                       |                    |                      |            |              | ĩ           |
| Bellevue Hospital Med. Coll., N. Y.,   |                  |                                       | · · · · · · · · · · · · · · · · · · · |                    |                      |            |              | ĩ           |
| Beloit College   |                  |                                       |                                       |                    | 3                    | I          |              | 4           |
| Berea College  |                  |                                       |                                       |                    |                      | I          |              | I           |
| Bethel College   |                  | r                                     |                                       |                    |                      |            |              | I           |
| Block Hills College  | • • • • •        |                                       |                                       |                    | I                    |            | • • • • •    | I           |
| Boston University  |                  | I                                     |                                       |                    |                      |            |              | 1<br>6      |
| Bowdoin College  |                  | I                                     | . 2                                   |                    | 3                    |            |              | 3           |
| Brooklyn Polytech. Inst.   |                  | -                                     |                                       | 2                  |                      | I<br>      |              | 2           |
| Brown University   |                  | г                                     | 0                                     | 1                  | 3                    | 2          | I            | 16          |
| Bryn Mawr College  |                  |                                       |                                       | 1                  | 2                    | 8          | 3            | 13          |
| Buchtel College  |                  |                                       |                                       |                    |                      | 2<br>8     | I            | I           |
| Bucknell University  |                  | I                                     |                                       |                    |                      | I          |              | 2           |
| Canisius Collage N. V  | I                |                                       |                                       |                    |                      |            |              | 1<br>3      |
| Carleton College   |                  | 3                                     |                                       |                    |                      |            |              | 2           |
| Case School Appl. Science  |                  | 1                                     | -                                     | 1                  |                      |            |              | ī           |
| Central Female College, Mo   |                  |                                       |                                       |                    |                      | I          |              | 1           |
| Central Pennsylvania Coll  |                  |                                       |                                       |                    |                      | I          |              | 1           |
| Central University, Ky   |                  | I                                     |                                       |                    |                      |            |              | I           |
| Colby University Me  |                  |                                       |                                       |                    | I                    |            | • • • • •    | I<br>3      |
| Colgate University N V   |                  | r                                     |                                       |                    | II                   | 1<br>2     | I            | 5           |
| Coll. of the City of New York  |                  | 24                                    | 12                                    | 16                 |                      | 40         | 5            | 141         |
| College of Pharmacy, N. Y.   |                  | 34                                    | 47                                    | 2                  | Ť.                   |            |              | 9           |
| Colorado College   |                  |                                       |                                       | 1                  | I                    |            |              | I           |
| Columbia University  |                  | 80                                    | 30                                    | 6                  | 26                   | 63         | 22           | 227         |
| Concordia College, Ind.  |                  |                                       |                                       |                    | I                    |            |              | I           |
| Creighton College Nob  |                  | 5                                     | 2                                     | I                  | 2                    | 9          | I            | 20<br>I     |
| Cumberland Presh Theol Seminary  | • • • • •        |                                       |                                       | 1                  |                      |            |              | r           |
| Cumberland University, Tenn  |                  |                                       |                                       |                    | T                    | 1          |              | ĩ           |
| Dalhousie University   |                  |                                       |                                       |                    | ī                    |            |              | I           |
| Dartmouth College  |                  | r                                     | I                                     |                    |                      | 2          |              | 4           |
| Davidson College   |                  |                                       |                                       |                    | I                    |            |              | I           |
| Delaware College   |                  |                                       |                                       |                    |                      | I          | • • • • •    | 1<br>2      |
| De Pauw University   |                  |                                       |                                       |                    | I                    | r          | I            | 2           |
| Detroit College  | • • • • •        |                                       | I                                     |                    |                      | 1          | • • • • •    | Ĩ           |
| Dickinson College, Pa.   |                  | · · · · · · · · · · · · · · · · · · · | 2                                     |                    |                      |            |              |             |
| Brown University.<br>Bryn Mawr College.<br>Buchtel College.<br>Bucktel College.<br>Butfalo Law School<br>Canisius College, N. Y.<br>Carleton College.<br>Case School Appl. Science.<br>Central Female College, Mo.<br>Central Pennsylvania Coll.<br>Central University, Ky.<br>Centre College, Ky.<br>Coll. of the City of New York.<br>Collage University, N. Y.<br>Colorado College.<br>Colorado College.<br>Columbia University.<br>Concordia College.<br>Columbia University, N. Y.<br>Concordia College, Ind.<br>Cornell University, N. Y.<br>Creighton College, Neb.<br>Cumberland Presb. Theol. Seminary<br>Cumberland College.<br>Delaware College.<br>Delaware College.<br>Derw Theol. Sem., N. J.<br>Eartham College, Ind.<br>Berory College, Va.<br>Emory College, Ind.<br>Emory College, Ind.<br>Emory College, Ind.<br>Emory College. Ind.<br>Emory College. Ind.<br>Emory College. Cancella Seminary.<br>Eureda College. Ind.<br>Emory College. Cancella Seminary.<br>Eureda College. Ind. |                  |                                       | I                                     |                    | I                    | 2          |              | 3<br>3<br>2 |
| Earlham College, Ind   |                  |                                       | I                                     |                    |                      | I          |              | 2           |
| Emory College, Va<br>Episcopal Theological Seminary  |                  |                                       | I                                     |                    | 2                    |            |              | 3           |
| Episcopal Theological Seminary   |                  |                                       | I                                     |                    |                      |            |              | I           |
| Fargo College, Ill   | • • • • •        | 1                                     |                                       |                    |                      |            | • • • • •    | I           |
| Franklin College   |                  | I                                     |                                       |                    |                      |            |              | 3           |
| Eureka College, Ill.<br>Fargo College.<br>Franklin College.<br>Franklin and Marshall Coll  |                  | 2                                     | 1                                     | I                  |                      |            |              | 3           |
|  |                  |                                       |                                       |                    |                      |            |              |             |

| Igo1-1902         Fremont Normal College, Neb         Genrett B. Institute | College | Law       | Medicine         | Applied<br>Science | Political<br>Science | Philosophy | Pure Science | Total   |
|--|---------|-----------|------------------|--------------------|----------------------|------------|--------------|---------|
| Dent Marriel Callera Mak   |         |           |                  |                    |                      |            |              | т       |
| Gerrett B Institute  |         | I         |                  |                    | т                    | ••••       |              | ī       |
| Geneva College, Pa   |         |           |                  |                    |                      | 2          |              | 2       |
| Georgetown University  |         | 2         | 2                |                    |                      |            |              | 4       |
| Grant University   |         |           |                  |                    | I                    |            |              | I       |
| Grove City College, Pa   |         |           |                  |                    |                      | 1          |              | I<br>TI |
| Hamilton College, N. Y   |         | 0         | 3                |                    | 2                    |            |              | ī       |
| Harvard University.  |         | <br>то    | 10               | 7                  | 3                    | IA         |              | 53      |
| Haverford College, Pa  |         | I         |                  |                    |                      |            |              | I       |
| Heidelberg College, Ohio   |         |           |                  |                    |                      | I          |              | 1       |
| Highland Park Normal School  |         |           |                  |                    | ····                 |            | 1            | 1       |
| Hillsdale College  |         |           |                  |                    | I                    |            |              | 3       |
| Hobart College N V   |         |           | ····             |                    | T T                  | T          |              | 4       |
| Holv Cross College, Mass   |         | 1         | 6                |                    |                      |            |              | 6       |
| Hospital School of Medicine, Md  |         |           | I                |                    |                      |            |              | I       |
| Illinois College   |         | I         |                  |                    |                      |            |              | I       |
| Illinois Wesleyan University   |         | · · · · · |                  |                    | 1                    |            |              | 5       |
| Indiana University   |         | I         | 1                |                    |                      | 3          |              | 4       |
| Iowa State College   | 1       |           | T                | 1                  |                      | 1          |              | I       |
| Johns Hopkins University   |         | I         |                  | 3                  |                      | I          |              | 5       |
| Kentucky School of Medicine  |         |           | I                | 1                  |                      |            |              | I       |
| Kentucky State College   |         |           | 3                |                    |                      |            |              | 3       |
| Kentucky University  |         | I         | 2                |                    |                      |            |              | 2       |
| Knox College Ill   |         | 2         |                  |                    |                      | 2          |              | 5.6     |
| Lafayette College, Pa  |         | 2         | 2                | I                  |                      | 1 I        |              |         |
| Lake Forest University   |         |           |                  | I                  |                      | I          |              | 2<br>1  |
| Lehigh University, Pa  |         | 1         | I                |                    |                      |            |              | 16      |
| Long Island College Hospital   |         | 4         |                  | 1 <b>*</b>         |                      |            |              | 1       |
| Manhattan College, N. Y  | 1       | 1         | 2                |                    | I                    | 2          |              | 5       |
| Marietta College, O  |         | I         |                  |                    |                      |            |              | I       |
| Maryland College of Pharmacy   |         |           | I                |                    |                      |            |              | I I     |
| Mass. Agricultural College   |         | 1         | I                |                    |                      |            |              | 1       |
| Memphis Hospital Med. Coll   | 1       |           | 1t               |                    |                      |            |              | I       |
| Mercer University  |         | I         | ļ <del>.</del> . |                    |                      |            |              | I       |
| Middlebury College, Vt   |         |           |                  |                    |                      | I          |              | I       |
| Miss. Agr. and Mech. Coll  |         |           |                  |                    | I                    | ····:·     | I I          | 1       |
| Monmouth College   |         |           |                  |                    |                      |            | 1            | I       |
| Mount Angel College  |         | τ         |                  |                    | 1                    |            |              | 1       |
| Mount Holyoke College, Mass  |         |           |                  |                    |                      | 2          |              | 2       |
| Mount Union Coll., O   |         | 1         |                  |                    | 2                    |            | 1            | 2       |
| Nebraska State Coll  |         |           |                  |                    |                      | I          |              | T T     |
| New Hampshire State Coll   |         |           | ·····            |                    |                      | l          |              | T       |
| New York Law School  |         |           | Ī                |                    | 4                    | I          |              | 6       |
| New York State Normal College  |         |           | ļ <b>.</b>       |                    |                      | 2          |              | 2       |
| New York University  |         | I         | II               | I                  | 7                    | 18         |              | 38      |
| Northern Ind. Normal College   |         |           |                  |                    |                      |            |              | T       |
| Northwestern University, Ill.  |         |           |                  |                    |                      | 2          |              | 2       |
| Norwegian Lutheran College   |         |           |                  |                    |                      | I          |              | I       |
| Notre Dame University, Ind   |         |           | 3                |                    |                      |            |              | 3       |
| Oberlin College, O.  |         | 2         | I                |                    | 2                    | 2          |              | 7       |
| Ohio Wesleven University   |         |           |                  |                    |                      | 3          | 1            | 4 7     |
| Oxford College,  |         |           |                  |                    |                      | I          |              | I       |
| Pennsylvania Military College  | T       | I         |                  | 2                  |                      |            |              | 4       |
| Pennsylvania State Coll. (A. & M.).  | l       | 1,2       | I I              | 1                  | l                    | l          | l            | 3       |

| 1901-1902   | College   | Law       | Medicine    | Applied Science | Political Science                     | Philosophy       | Pure Science                          | Total       |
|---|-----------|-----------|-------------|-----------------|---------------------------------------|------------------|---------------------------------------|-------------|
| Princeton University  |           | 9         | 22          | 6               |                                       | 6                | I                                     | 48          |
| Purdue University   |           | 9         | 22          | 1 0             | 4                                     | I                | 1                                     | 40          |
| Radcliffe College Mass  |           |           |             |                 |                                       |                  | • • • • •                             |             |
| Redfield College  |           | ••••      |             |                 | I                                     | 3                | ••••                                  | 4<br>1      |
| Radcliffe College, Mass.<br>Redfield College, Mass.<br>Richmond College, Va.<br>Roanoke College, Va.<br>Rock Hill College, Va.  |           | 2         | <b>I</b>    |                 |                                       | 1                |                                       | 3           |
| Roanoke College, Va   |           | ĩ         |             |                 |                                       | I                |                                       | 2           |
| Rock Hill College   |           |           | I           |                 |                                       | L                |                                       | ī           |
| Rutgers College, N. J.  |           | I         | 8           | I               | 2                                     |                  |                                       | 12          |
| St. Francis College, N. Y   |           |           | I           |                 |                                       |                  |                                       | I           |
| St. Francis Xavier College, N. Y  |           | 12        | 4           | 3               |                                       | 4                |                                       | 23          |
| St. John's College, Md.   |           | 2         |             |                 |                                       |                  |                                       | 2           |
| St. John's College, Mhtn., N. Y   |           |           | 2           | I               |                                       |                  |                                       | 3<br>1      |
| St. Joseph's College  |           |           | I           |                 |                                       |                  |                                       |             |
| St. Paul & College, Pa  |           | • • • • • | 6           |                 |                                       | I                |                                       | 1<br>6      |
| St. Stephen's College N. V.   |           | • • • • • | 0           |                 |                                       | ····             |                                       | 0           |
| St. Vincent's College   |           | ••••      |             |                 | ••••                                  | I                |                                       | ī           |
| Santa Clara College Cal   |           | 2         |             |                 |                                       |                  |                                       | 2           |
| Seton Hall College, N. I.   |           |           | T T         |                 |                                       |                  |                                       | I           |
| Simpson College, Iowa   |           |           |             |                 |                                       |                  | 2                                     | 2           |
| Smith College, Mass   |           |           |             |                 | 5                                     | 8                |                                       | 13          |
| South Carolina College  |           | I         |             |                 |                                       |                  |                                       | I           |
| South Dakota Agr. College   |           |           |             | I               |                                       |                  |                                       | I           |
| South Dakota State College  |           |           |             | I               |                                       |                  | !                                     | 1           |
| Southwestern University, Texas  |           |           | I           |                 |                                       | 2                | • • • • •                             | 3           |
| Stevens Institute, N. J   |           |           | $ \cdots $  |                 |                                       |                  | 2                                     | 2           |
| Rock Hill College, Va.<br>Rock Hill College, N. J.<br>St. Francis College, N. Y.<br>St. Francis College, M. Y.<br>St. Francis Xavier College, N. Y.<br>St. John's College, Md.<br>St. John's College, Md.<br>St. Paul's College, Man.<br>St. Paul's College, Pa.<br>St. Peter's College.<br>St. Stephen's College.<br>St. Stephen's College.<br>St. Stephen's College.<br>Santa Clara College, Cal.<br>Seton Hall College, N. J.<br>Simpson College, Iowa<br>Smith College, Mass.<br>South Carolina College.<br>South Dakota Agr. College.<br>South Dakota State College.<br>South Dakota State College.<br>Southwestern University, Texas<br>Storrs Agricultural Coll., Conn.<br>Swarthmore College, Pa.<br>Svracuse University, N. Y. |           |           | I           |                 |                                       | • • • • •        | · · · · · · · · · · · · · · · · · · · | I           |
| Svracuse University N V   |           |           |             |                 | I                                     |                  | I                                     | 5           |
| Trinity College, Conn   |           |           |             | · · · · · ·     | I                                     | 4                | Ť                                     | 10          |
| Trinity College, N. C.  |           |           | I           |                 |                                       | 4                | Ť.                                    | I           |
| Tufts College, Mass   |           | I         |             |                 |                                       |                  |                                       | I           |
| Tulane University, La   |           |           |             | I               |                                       |                  |                                       | I           |
| Union College   |           | I         |             |                 |                                       |                  | I                                     | 2           |
| United States Military Academy  |           | I         |             |                 |                                       |                  |                                       | I           |
| University of Ruffele   | • • • • • | ••••      | I           | • • • • •       | • • • • •                             |                  | • • • • •                             | I           |
| University of California  |           |           | 2           | I               | · · · · · · · · · · · · · · · · · · · |                  | •••••                                 |             |
| University of Chicago   |           | 3<br>T    | 2           | ••••            | 1                                     | 3                |                                       | 9<br>5<br>2 |
| University of Cincinnati  |           | -         |             | -               | 1                                     | 2                |                                       | 2           |
| University of Colorado  |           | I         |             |                 |                                       | 2                | I                                     | 4           |
| University of Georgia   |           | 4         | I           |                 | I                                     | I                |                                       | 7<br>1      |
| Storrs Agricultural Coll., Conn.<br>Swarthmore College, Pa<br>Trimity College, Conn<br>Trimity College, N.C.<br>Tufts College, Mass.<br>Tulane University, La<br>United States Military Academy<br>University of Alabama.<br>University of Buffalo<br>University of Chicago.<br>University of Chicago.<br>University of Colorado.<br>University of Georgia.<br>University of Georgia<br>University of Georgia   |           | I         |             |                 |                                       |                  |                                       |             |
| University of Iowa  |           | 2         |             | I               |                                       |                  | I                                     | 4           |
| University of Kansas  |           | · • • • • |             |                 | 1                                     | I                | 2                                     | 4 2         |
| University of Kansas<br>University of Louisville<br>University of Maine   | I         | I         | ••••        | · · · · · ·     |                                       | · · · <u>·</u> · | · · · · ·                             | 2           |
| University of Michigan  |           | • • • • • | ••••        | I               | I                                     | I                | I                                     | 4<br>11     |
| University of Minnesota   | ••••      | • • • • • |             | •••••           | 4                                     | 7<br>4           |                                       | 5           |
| University of Mississippi   |           |           | т           |                 |                                       | - <b>4</b>       |                                       | 5<br>2      |
| University of Missouri  |           | I         |             | I               |                                       |                  |                                       | 2           |
| University of Nashville   |           |           |             |                 |                                       | 2                |                                       | 2           |
| University of Nebraska  |           | 2         | 3           |                 |                                       |                  | 2                                     | 5           |
| University of Maine.<br>University of Michigan.<br>University of Mississippi.<br>University of Mississippi.<br>University of Missouri.<br>University of Nashville.<br>University of Nebraska.<br>University of Nevada.<br>University of New Mexico.<br>University of New Mexico.<br>University of Omaha.<br>University of Omaha.<br>University of Oregon<br>University of Pennsylvania.<br>University of Pennsylvania.  |           | • • • • • | Ĭ           |                 |                                       |                  |                                       | I           |
| University of North Carolina  | • • • • • | • • • • • | ••••        | · · · · ·       | • • • • •                             | I                |                                       | 4           |
| University of Omaha   |           | • • • • • | I           | I               | I                                     | I<br>I           |                                       | 4<br>1      |
| University of Oregon  |           |           | • • • • • • |                 |                                       | T                | · · · · · · ·                         | 4           |
| University of the Pacific   |           |           |             |                 | I                                     |                  |                                       | I           |
| University of Pennsylvania  |           |           | I           | I               | I                                     |                  |                                       | 3           |
| University of Rochester   |           | 3         | 2           |                 |                                       |                  | 2                                     | 7           |
| University of So. Carolina  |           |           |             | • • • • •       | I                                     |                  |                                       | I           |
| University of So. Carolina<br>University of the South, Tenn<br>University of Tennessee  |           | 3         |             | I               |                                       |                  | • • • • •                             | 4           |
| Oniversity of Tennessee   |           | ••••      |             | •••••           | I                                     | • • • • •        |                                       | 1           |

| 1901-1902  | College | Law   | Medicine                                   | Applied Science                    | Political Science   | Philosophy   | Pure Science                              | Total   |
|--|---------|---|--|------------------------------------|---|--|---|---|
| Wabash College, Ind<br>Wake Forest College, N. C.<br>Warburg College, Iowa.<br>Washburn College.<br>Washington and Jefferson Univ., Pa.<br>Washington and Lee Univ., Va<br>Wells College, Mass<br>Wells College, Mass<br>Western Medical College.<br>Western Medical College.<br>Western Reserve University, O.<br>Western Iniversity of Pa<br>Whitman College.<br>Wiltiams College, Mass<br>Wittenberg College, O.<br>Wofford College, S. C.<br>Woman's College, Baltimore.<br>Woman's Medical Coll., N. Y. |         | I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | 2<br>4<br><br>I<br><br>I<br><br>4<br>4<br> | 3<br><br>I<br>I<br><br>2<br><br>21 | 2<br>2<br>3<br><br>2<br>3<br><br>2<br>2<br>3<br><br>2<br>2<br>4<br>1<br>1<br>3<br><br>2<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | I5<br>I1<br>I1<br>I2<br>8<br>I<br>I<br>I<br>I<br>I<br>2<br>8 | 2<br><br>I<br><br>2<br><br>3<br><br>2<br> | 3<br>4<br>5<br>5<br>1<br>1<br>2<br>2<br>2<br>1<br>1<br>1<br>3<br>2<br>2<br>2<br>2<br>1<br>1<br>1<br>1<br>2<br>2<br>2<br>2 |
| Total graduates of domestic institu-<br>tions  | 4       | 302   | 316  | 102                                | 169   | 343  | 69  | 1305  |

# TABLE IV (continued)

### (B)-HIGHER INSTITUTIONS IN FOREIGN COUNTRIES

| 1901-1902  | College         | Law                              | Medicine                         | Applied<br>Science              | Political<br>Science  | Philosophy                                | Pure Science                   | Total                                      |
|--|-----------------|----------------------------------|----------------------------------|---------------------------------|---|---|--------------------------------|--|
| Durham University, England<br>Gymnasium, Lucerne, Switzerland<br>Gymnasium of S. S. Vidensky, Russia<br>Imperial University, Moscow<br>Keiogijuku University, Japan<br>K. K. Lehrer - Bildungsanstalt,<br>Vienna<br>Königl. Gymnasium, Leipzig<br>Königl. Lehrer-Seminar, Sagan, Ger-<br>many<br>London University<br>Lycée Braila, Roumania<br>McGill University, Canada<br>McGill University, Canada<br>McGill University, Canada<br>Oberreal-Schule, Freiburg, Germany<br>Ottawa University<br>Porto Rico University.<br>Porto Rico University, Canada<br>Real Gymnasium, Vina, Russia<br>St. Mary's College, Montreal<br>Santa Cruis, Gonzaga, Cuba.<br>Tetsugakkwan, Tokyo, Japan<br>Tokyo Imperial University, Japan<br>University of Bonn<br>University of Copenhagen<br>University of Gopenhagen<br>University of Halle<br>University of Havana<br>University of Marburg<br>University of Rome<br>University of Rome<br>University of Rome<br>University of Vienna<br>University of Vienna<br>University of Vienna |                 |                                  | I<br><br>I<br>2                  |                                 | 2<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br><br>I<br> | I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I |                                |  |
| Total graduates of foreign institu-<br>tions   |                 | 3                                | 9                                | 14<br>                          | 13  | 7   | 5                              | 51   |
| Grand total graduates of higher in-<br>stitutions  | 4               | 305                              | 325                              | 116                             | 182   | 350                                       | 74                             | 1356                                       |
| Deduct for graduates of more than<br>one institution   | 4<br>492<br>0.8 | 3I<br>274<br>440<br>62.2<br>62.2 | 20<br>305<br>809<br>37-7<br>38.7 | 5<br>111<br>626<br>17.7<br>15.9 |   | 56<br>294<br>294<br>100.<br>100.          | 13<br>61<br>61<br>100.<br>100. | <i>159</i><br>1197<br>2875<br>41.0<br>40.3 |

The number and nature of the degrees held by our students are shown in Table V, wherein it appears that our 1197 college graduates hold 1436 degrees which have been granted by 254 institutions.

### TABLE V

| NATURE OF DEGREES H | ELD BY STUDENTS |
|---------------------|-----------------|
|---------------------|-----------------|

|  |                         |  |   |   |   |  | -   |  |
|--|-------------------------|--|---|---|---|--|---|--|
| DEGREES  | College                 | Law  | Medicine  | Applied Science   | Political Science   | Philosophy   | Pure Science                                    | Total  |
| A. Degrees signifying, in general, a liberal education   |                         |  |   |   |   |  |   |  |
| "Sacred Theology<br>"Science."<br>"Divinity."<br>Doctor of Philosophy<br>Master of Arts"<br>"Laws"<br>"Science   |                         | 221<br>5<br>14<br>27<br><br>32<br><br>1<br><br>300 | 201<br>321<br>54<br>12<br>11<br>1<br>2<br>1<br>1<br><br>1<br>299                            | 53<br>9<br>35<br>1<br>2<br>1<br>2<br>1<br>3<br>5<br>1<br>2<br>1<br>3<br>5                   | 107<br>7<br>12<br>2<br>14<br>6<br>2<br>30<br>2<br>1<br>1<br><br>3<br><br>4<br><br>190 | 4<br>219<br>4<br>25<br><br>38<br>3<br>72<br><br>2<br>1<br>1<br>1<br>4<br>4<br><br>381  | I<br>30<br>16<br><br>4<br>20<br><br>4<br><br>83 | 5<br>832<br>20<br>87<br>2<br>185<br>10<br>12<br>167<br>3<br>10<br>2<br>5<br>4<br>4<br>11<br>1<br>1<br>1<br>3<br>58 |
| Bachelor of Agriculture.<br>"Laws."<br>Engineering.<br>"Mining Engineering<br>Civil Engineer.<br>Doctor of Medicine.<br>Electrical Engineer.<br>Graduate in Pharmacy.<br>Mechanical Engineer.<br>United States Military Academy<br>Total | I<br><br>I<br><br>2<br> | 3<br>  | I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | 8<br>3<br>  | ······<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>···· | I<br>2<br>4<br><br>I<br>2<br><br>I<br>0<br>93   | I<br>2I<br>2<br>9<br>25<br>I<br>1<br>1<br>1<br>78<br>1436  |
| Deduct for students holding more than<br>one degree  | 4                       | 31<br>274  | 20<br>305   | 5<br>111  | 53<br>148   | 98<br>294  | 32<br>61  | 239<br>1197  |

During the academic year 1901-1902 the University conferred honors on 779 individuals, to whom were granted 846 degrees and diplomas. This information is summarized in Table VI.

### TABLE VI

### DEGREES AND DIPLOMAS GRANTED, 1901-1902

|  | Men   | Women  | Total  |
|--|---|--|--|
| A. Degrees conferred in course         Bachelor of Arts         "Laws  | 109<br>110<br>2<br>15<br>6<br>17<br>17<br>17<br>14<br>23<br>21<br>145<br>106<br>306<br>596<br>586 | 50<br>15<br>49<br>117<br>117                             | 159<br>110<br>17<br>15<br>6<br>17<br>11<br>23<br>21<br>1<br>145<br>155<br>33<br>713<br>703 |
| B. Honorary degrees<br>Doctor of Science.<br>"Laws.<br>Total.  | і<br>4<br>5   |  | 1<br>4<br>5  |
| C. Teachers College diplomas granted<br>Doctor's diploma in education.<br>Master's """"<br>Bachelor's """"<br>Higher diploma.<br>Secondary "<br>Elementary "<br>Domestic Art "<br>Domestic Science "<br>Fine Arts "<br>Manual Training "<br>Fine Arts and Manual Training diploma.<br>Total. | 3<br>20<br>7<br>3<br>4<br>1<br><br>4<br><br>4<br>   | 8<br>27<br>4<br>21<br>11<br>3<br>14<br>5<br>2<br>1<br>97 | 3<br>28<br>34<br>4<br>8<br>22<br>11<br>3<br>14<br>5<br>6<br>1<br>39                        |
| Total degrees and diplomas granted<br>Deduct duplicates †<br>Total individuals receiving degrees and diplomas  | 633<br><i>35</i><br>598   | 214<br>34<br>180   | 847<br><i>69</i><br>778  |

Tables VII, VIII, IX, and X present in detailed form full information concerning the names of candidates on whom were conferred the degrees of Master of Arts and Doctor of Philosophy during the academic year 1901-1902, the major and minor subjects studied, and the titles of dissertations offered by them, for the said degrees, under the Faculties of Political Science, Philosophy, Pure Science, and Applied Science, respectively.

\* Distributed as follows: LL.B. and A.M., 6; M.D. and A.M., 2; C.E. and A.M., 2.

<sup>†</sup> In addition to those noted under \*, the following duplications occur: A.B. and Bachelor's Diploma in Education, 4 men, 19 women; A.M., and Secondary Diploma, 1 man, 3 women; A.M. and Higher diploma, 1 man; Ph.D. and Doctor's Diploma, 3 men; A.M. and Master's Diploma, 15 men, 9 women; A.M. and Bachelor's Diploma, 1 man, 3 women.

### TABLE VII

# RECOMMENDATIONS FOR DEGREES, 1901-1902

# Students having their major subject under the Faculty of Political Science

### DOCTOR OF PHILOSOPHY

| Candidate  | Major Subject                          | Minor Subjects   | Title of Dissertation                                  |
|--|--|--|--|
| <ol> <li>Stephen Pierce Hay-<br/>den Duggan,</li> <li>B.S., College of the<br/>City of New York,<br/>1890; M.S., 1896;<br/>A.M., Columbia Uni-<br/>versity, 1899.</li> </ol> | International<br>law.                  | Constitutional<br>law and Ad-<br>ministrative<br>law; Euro-<br>pean history. | The Turkish question: a study in diplomacy.            |
| <ol> <li>James Wilford Garner,<br/>B.S., Mississippi Agri-<br/>cultural and Mech-<br/>anical College, 1892;<br/>Ph.M., University of<br/>Chicago, 1900.</li> </ol>           | law and Ad-                            | International<br>law; Amer-<br>ican history.                                 | Reconstruction in Missis-<br>sippi.                    |
| <ol> <li>Yetaro Kinosita,<br/>A.B., Hiram College,<br/>1899; A.M., Yale<br/>University, 1901.</li> </ol>   | Political econo-<br>my and<br>finance. | Sociology and<br>statistics; In-<br>ternational<br>law.                      | The past and present of Japanese commerce.             |
| <ol> <li>Newton D. Mereness,<br/>A.B., University of<br/>Michigan, 1892;<br/>A.M., 1894.</li> </ol>  | European his-<br>tory.                 | American his-<br>tory; Soci-<br>ology and<br>statistics.                     | Maryland as a proprietary colony.                      |
| <ol> <li>Ulrich Bonnell Phil-<br/>lips,</li> <li>A.B., University of<br/>Georgia, 1897; A.M.,<br/>1899.</li> </ol>   | American his-<br>tory.                 |  | Georgia and state rights.                              |
| <ol> <li>Charles Lee Raper,<br/>A.B., Trinity College,<br/>North Carolina, 1892.</li> </ol>  |  | European his-<br>tory; Politi-<br>cal economy<br>and finance.                | North Carolina: a royal<br>province.                   |
| <ol> <li>Mabel Hurd Willett,<br/>(Mrs.),</li> <li>B.L., Smith College,<br/>1895.</li> </ol>  | statistics.                            | Political econ-<br>omy and<br>finance;<br>European<br>history.               | The employment of wo-<br>men in the clothing<br>trade. |

# TABLE VII (continued)

MASTER OF ARTS

| Candidate   | Major Subject                          | Minor Subjects  | Title of Essay  |
|---|--|---|---|
| I. John Michel Barrett,<br>A.B., Georgetown Uni-<br>versity, 1899.  | Constitutional<br>law.                 | Political econ-<br>omy and<br>finance;<br>Criminal<br>law.                  | Women's suffrage in the<br>United States.   |
| <ol> <li>William Francis Beers,<br/>Jr.,<br/>A.B., Columbia Uni-<br/>versity, 1901.</li> <li>Clinton Ambrose Billig,</li> </ol> | law.<br>Sociology and                  | Administrative<br>law; Soci-<br>ology and<br>statistics.<br>Political econ- | Capitalistic monopolies<br>from the point of view<br>of political science and<br>of constitutional law.<br>An analysis of the statisti- |
| A.B., Ohio Wesleyan<br>University, 1898.  | statistics.                            | omy and<br>finance;<br>European<br>history.                                 | cal tables of the New<br>York State Board of<br>Charities, 1900.  |
| <ol> <li>Arthur Jerome Boyn-<br/>ton,</li> <li>Ph.B., Beloit College,<br/>1896; A.B., Harvard<br/>University, 1901.</li> </ol>  | Political econ-<br>omy and<br>finance. | Sociology and<br>statistics; In-<br>ternational<br>law.                     | The philosophy of the sin-<br>gle tax.  |
| <ol> <li>5. Ralph James M. Bul-<br/>lowa,</li> <li>A.B., College of the<br/>City of New York,<br/>1900.</li> </ol>              | Constitutional<br>law.                 | Criminal law;<br>European<br>history.                                       | Cummings vs. Richmond<br>County Board of Edu-<br>cation.  |
| 6. Margaret Frances By-<br>ington,<br>A.B., Wellesley College,<br>1900.   | Sociology and statistics.              | Political econ-<br>omy and<br>finance;<br>Education.                        | A study of Poland.  |
| <ol> <li>Valentine Laura Chan-<br/>dor,<br/>A.B., Columbia Uni-<br/>versity, 1900.</li> </ol>                                   | European his-<br>tory.                 | American his-<br>tory; Soci-<br>ology and<br>statistics.                    | Decree of the National<br>Assembly abolishing<br>the Feudal System, Au-<br>gust 11, 1789.   |
| 8. Miriam Foster Choate,<br>A.B., Smith College,<br>1899.   | American his-<br>tory,                 | European his-<br>tory; Soci-<br>ology and<br>statistics.                    | The composition of the<br>population of the colo-<br>nics north and east of<br>the Delaware in the<br>seventeenth century.              |
| <ol> <li>9. Herbert Gould Crocker,<br/>B.L., Washburn Col-<br/>lege, 1897.</li> </ol>   | Sociology and statistics.              | Political econ-<br>omy and<br>finance;<br>European<br>history.              | Analysis of the records of<br>missionary activity in<br>the United States from<br>1800 to 1850.   |
| <ol> <li>Knowlton Durham,<br/>A.B., Columbia Uni-<br/>versity, 1901.</li> </ol>   | American his-<br>tory.                 |   | The administrative sys-<br>tem of Rhode Island<br>during the seventeenth<br>century.  |
| 11. William Oliver Eas-<br>ton,<br>A.B., Wittenberg Col-<br>lege, 1893.   | Political phi-<br>losophy.             | Constitutional<br>law; Amer-<br>ican history.                               | The critical philosophy of<br>Baruch Spinoza, with<br>special reference to that<br>of Thomas Hobbes.                                    |

# TABLE VII (continued)

| Candidate  | Major Subject  | Minor Subjects   | Title of Essay   |
|--|--|--|--|
| <ol> <li>Joseph Diehl Facken-<br/>thal,</li> <li>A.B., Columbia Uni-<br/>versity, 1900.</li> <li>Moses Leonard Fra-<br/>zier,</li> <li>Ph.B., Mt. Union Col-<br/>lege, 1896; Ph.M.,<br/>1899; LL.B., New<br/>York Law School,<br/>1899.</li> </ol> | and compara-<br>tive juris-<br>prudence.<br>Constitutional<br>law. | tory; Crimi-<br>nal law.                                       | damages suffered by the<br>fraud of a third person.<br>Pennoyer vs. Neff (95<br>U. S.).                            |
| 14. Walter Diedrich Ger-<br>ken,<br>B.S., Cornell Univer-<br>sity, 1899.   | tory.  | Constitutional<br>law; Educa-<br>tion.                         | The Iroquois in their re-<br>lation to the struggle<br>between France and<br>England in North Am-<br>erica.        |
| 15. Henry Starr Giddings,<br>A.B., Columbia Uni-<br>versity, 1900.   |  |  | Fraud as affecting the<br>wrongdoer's assignees<br>at Roman and at Eng-<br>lish law.                               |
| <ol> <li>Harry Allen Gordon,<br/>A.B., College of the<br/>City of New York,<br/>1901.</li> </ol>   | Constitutional<br>law.   | Criminal law;<br>American<br>history.                          | English and Dutch col-<br>onization in New York.   |
| 17. John Ferguson Har-<br>per,<br>B.S., College of the<br>City of New York,<br>1901.   | tory.  | tory; Politi-<br>cal economy<br>and finance.                   | colonies in the seven-<br>teenth century.  |
| <ol> <li>Howard Sawyer Har-<br/>rington,<br/>A.B., Columbia Uni-<br/>versity, 1899.</li> </ol>   | law.   | Criminal law;<br>American<br>history.                          | The jurisdiction of admi-<br>ralty.  |
| 19. Samuel Perkins<br>Hayes,<br>A.B., Amherst Col-<br>lege, 1896.  |  | Political econ-<br>omy and<br>finance;<br>European<br>history. | Sociological study of the<br>population of Massa-<br>chusetts in the first half<br>of the eighteenth cen-<br>tury. |
| 20. Daniel Valentine<br>Hopps,<br>A.B., University of<br>Georgia, 1899.  | law.   |  | Constitutionality of the<br>methods employed by<br>executive agencies in   |
| <ol> <li>Raeburn William Jen-<br/>kins,</li> <li>A.B., College of the<br/>City of New York<br/>1899.</li> </ol>  | law.   |  | Lawton vs. Steele, and<br>Duncan vs. Missouri.   |
| 22. Henry Johnson,<br>B.L., University of<br>Minnesota, 1899.  | American his-<br>tory.   | European his-<br>tory; Ad-<br>ministrative<br>law.             | A history of the Fifteenth<br>Amendment.   |

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# TABLE VII (continued) .

| Candidate   | Major Subject          | Minor Subjects  | Title of Essay  |
|---|------------------------|---|---|
| <ul> <li>23. Margaret Edith John-<br/>son, .</li> <li>A.B., Adelphi College,<br/>1899.</li> </ul>               | tory.                  | European his-<br>tory; Edu-<br>cation.  | The composition of the<br>population of the colo-<br>nies south and west of<br>the Delaware River in<br>the seventeenth cen-<br>tury. |
| 24. George Beckwith<br>Keeler,<br>A.B., Columbia Uni-<br>versity, 1901.   | omy and                | Political econ-<br>omy and<br>finance; Ro-<br>man law and<br>comparative<br>jurispru-<br>dence. | The present laws on mo-<br>nopolies.  |
| <ol> <li>Walter Thomas Kohn,<br/>A.B., College of the<br/>City of New York,<br/>1900.</li> </ol>                | law.                   | American his-   | Consular jurisdiction and the constitution.   |
| 26. Tosaburo Konno,<br>Equiv. A.B., Tokyo<br>Law School, 1894.  | International<br>law.  | Constitutional<br>law; Politi-<br>cal economy<br>and finance.                                   |   |
| 27. Robert Percy Levis,<br>A.B., University of<br>Rochester, 1898.  | Administrative<br>law. | American his-<br>tory; Crimi-   |   |
| 28. Samuel Samter Levy,<br>A.B., Yale University,<br>1900.  | Constitutional<br>law. | nal law.<br>American his-<br>tory; Crimi-<br>nal law.   | History of the customs<br>relations between Porto<br>Rico and the United<br>States.   |
| 29. Louise Ropes Loomis,<br>A.B., Wellesley Col-<br>lege, 1897.   |                        | American his-<br>tory; Greek.   | The work of Manuel Chry-  |
| 30. Oscar Lowenstein,<br>A.B., Columbia University, 1900.   | Administrative<br>law. |   | The constitutionality of registration laws in the United States.  |
| <ul> <li>James Callanan Madi-<br/>gan,</li> <li>A.B., College of the<br/>City of New York,<br/>1900.</li> </ul> | law.                   | Criminal law;<br>Political<br>economy<br>and finance.   | Cases of Iowa vs. Iowa<br>C. R. R., and Eldridge<br>vs. Trezevant.  |
| 32. John Harold Mar-<br>sching,<br>Abiturienten-Zeugnis,<br>Oberrealschule von<br>Freiburg i. B., Ger-          | omy and<br>finance.    | statistics;<br>American<br>history.   | The theory of ability.  |
| many, 1900.<br>33. Charles Clark Miller,<br>A.B., Princeton Uni-<br>versity, 1900.                              | statistics.            | omy and<br>finance;<br>European<br>history.   |   |
| 34. Harry Brainerd Mit-<br>chell,<br>A.B., Amherst Col-<br>lege, 1901.  | omy and                |   | Industry and class rela-<br>tions in Greece.  |

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|--|------------------------|--|--|
| Candidate  | Major Subject          | Minor Subjects   | Title of Essay   |
| 35. George Frank Nason,<br>Equiv. A.B., Cumber-<br>land University,<br>'1897.                              | statistics.            | Political econ-<br>omy and<br>finance;<br>European<br>history.   | Croatia-Slavonia.  |
| 36. Thomas Edward<br>O'Brien,<br>A.B., Columbia Uni-<br>versity, 1900.                                     | comparative            | American his-<br>tory; Crimi-<br>nal law.                        | Fraud in judgments.  |
| <ol> <li>Oscar Lewis Pond,<br/>A.B., Indiana Univer-<br/>sity, 1899.</li> </ol>                            | law.                   | omy and<br>finance;<br>Criminal law.                             | Civil-rights cases.  |
| <ul> <li>38. John Boyce Smith,<br/>Jr.,<br/>A.B., Columbia Uni-<br/>versity, 1901.</li> </ul>              | tory.                  | tory; Crimi-<br>nal law.   | the Indians in the seventeenth century.                                |
| 39. Preserved Smith,<br>A.B., Amherst Col-<br>lege, 1901.  |                        | American his-<br>tory; Consti-<br>tutional law.                  |  |
| 40. John Öakley Spencer,<br>Ph.B., Illinois Wes-<br>leyan University,<br>1888; A.M., 1891;<br>Ph.D., 1804. | law.                   | Political econ-<br>omy and<br>finance;<br>American<br>history.   | The diplomatic relations<br>of the United States<br>with the far East. |
| 41. Everett Birney<br>Stackpole,<br>A.B., Bowdoin Col-<br>lege, 1900.                                      | omy and                | Sociology and<br>statistics;<br>International<br>law.            | Economic aspects of co-<br>lonial expansion.                           |
| <ol> <li>Hodzumi Tanaka,</li> <li>A.B., Tokyo-Semmon-<br/>Gakko, 1896; A.M.,<br/>1898.</li> </ol>          | omy and finance.       | Sociology and<br>statistics;<br>International<br>law.            |  |
| 43. Martin Walker,<br>A.B., Concordia Col-<br>lege, 1896.  | European his-<br>tory. | American his-<br>tory; Ger-<br>man.                              | Huss's debt to Wiclif.   |
| <ul> <li>44. Mayer Joseph Weinstein,</li> <li>A.B., Columbia University, 1900.</li> </ul>                  | law.                   | comparative<br>jurispru-<br>dence; Amer-<br>ican history.        |  |
| <ol> <li>Loren Newton Wood,<br/>B.S., Carleton College,<br/>1899.</li> </ol>                               | Constitutional<br>law. | Political econ-<br>omy and fi-<br>nance; Inter-<br>national law. |  |
|  | 1                      |  | 1  |

# TABLE VIII

### RECOMMENDATIONS FOR DEGREES, 1901-1902

Students having their major subject under the Faculty of Philosophy

### DOCTOR OF PHILOSOPHY

| Major Subject                          | Minor Subjects  | Title of Dissertation   |
|--|---|---|
|  | Philosophy;<br>Anthropol-<br>ogy.   | The administration of<br>public school text-<br>books in the United<br>States.  |
|  | Education;<br>Psychology.   | The public elementary<br>school curriculum of<br>England.   |
|  | Education;<br>English.  | An historical and critical<br>discussion of college ad-<br>mission requirements.  |
|  | Psychology;<br>European<br>history.   | Sunday-school move-<br>ments in America.  |
| guages and                             | guages and<br>literatures;  | Parody and related forms<br>in Jewish literature.   |
| Greek language<br>and litera-<br>ture. | Latin language<br>and litera-<br>ture; Clas-<br>sical archæ-  | The cults of Olbia.   |
| lology.                                | Romance lit-<br>erature;<br>Anglo-Saxon   | kingdom.  |
|  | Education;<br>Anthropol-  | Horace Mann in Ohio.  |
|  | Psychology;<br>Ethics.  | The free-will problem in modern thought.  |
|  | Philosophy;<br>Education.   | "Bustan al-Ukul," or<br>"The Garden of the<br>Sciences."  |
| Education.                             | Psychology;<br>Sociology<br>and statis-<br>tics.  | School administration in municipal government.  |
| guages and literatures.                | Syriac; Indo-   | Modern Syriac dictionary.   |
|  | Education.<br>Education.<br>Education.<br>Education.<br>Semitic lan-<br>guages and<br>literatures.<br>Greek language<br>and litera-<br>ture.<br>Romance phi-<br>lology.<br>Education.<br>Philosophy.<br>Semitics.<br>Education.<br>Semitic lan- | Education.Philosophy;<br>Anthropol-<br>ogy.Education.Education;<br>Psychology.Education.Education;<br>English.Education.Education;<br>English.Education.Psychology;<br>European<br>history.Semiticlan-<br>guages and<br>literatures.Greek language<br>and litera-<br>ture.Semitic<br>Ianglish.Romance phi-<br>lology.Education;<br>Anglo-SaxonEducation.Education;<br>Anglo-SaxonEducation.Education;<br>Anthropol-<br>ogy.Philosophy.Psychology;<br>Ethics.Semitics.Philosophy;<br>Education.Education.Philosophy;<br>Education.Education.Semitics.Semitics.Philosophy;<br>Education.Education.Sociology;<br>and statis-<br>tics.Semitic lan-<br>guages and<br>literaturesPsychology;<br>Sociology<br>and statis-<br>tics. |

# TABLE VIII (continued)

MASTER OF ARTS

|  |  | 1   |  |
|--|--|---|--|
| Candidate  | Major Subject                          | Minor Subjects  | Title of Essay   |
| <ol> <li>John William Adams,<br/>A.B., Cornell Univer-<br/>sity, 1901.</li> </ol>  | Education.                             | Education;<br>Mathematics.  | Ideal correlation between<br>mathematics and phys-<br>ics in American high<br>schools. |
| 2. Antoinette Affeld,<br>A.B., Vassar College,<br>1901.  | Education.                             | Education;<br>Germanic<br>languages<br>and litera-<br>tures.                      | Wildenbruch's "Das Mar-<br>chen von den zwei<br>Rosen," with notes and<br>vocabulary.  |
| 3. Lewis Burton Alger,<br>Ph.B., University of<br>Michigan, 1897.  | Education.                             | Education;<br>Geography.  | The origin of the univer-<br>sity.   |
| 4. Saul Badanes,<br>Pd.M., New York Uni-<br>versity, 1891; Pd.D.,<br>1894.   | Education.                             | Education;<br>English.  | Auguste Comte's theory<br>and practice of educa-<br>tion.                              |
|  | Latin language<br>and litera-<br>ture. | Greek language<br>and litera-<br>ture; Roman<br>archæology<br>and epig-<br>raphy. | Repeated lines in Lucre-<br>tius.  |
| 6. Martha Ann Beecher,<br>Ph.B., Syracuse Uni-<br>versity 1804.  | Education.                             | Education;<br>Mathematics   | Methods of attacking pro-<br>positions in geometry.                                    |
| versity, 1894.<br>7. Clara de Lissa Berg,<br>A.B., Columbia Uni-<br>versity, 1898.   | Comparative<br>literature.             | Comparative<br>literature;<br>European<br>history.                                | The influence of Pet <mark>rarch</mark><br>in England.                                 |
| 8. Mabel Boak,<br>A.B., Vassar College,  | Education.                             | Education;<br>English.  | The syntax of the first<br>book of Vergil's Æneid.                                     |
| 9. Victor Fitch Mount<br>Bonsall,<br>A.B., Columbia Uni-   | Latin language<br>and litera-<br>ture. | Greek language<br>and litera-<br>ture; Roman<br>archæology.                       | Some modern phases of<br>Roman society.  |
| versity, 1901.<br>10. Annie Mabel Brooks,<br>A.B., Smith College,<br>1808.   | Education.                             | Education;<br>Sanskrit.   | A study of the geography<br>of Cæsar.  |
| 11. Elizabeth Hankinson<br>Bunnell,<br>A.B., Mt. Holyoke Col-<br>lege, 1894.   |  | Education;<br>Latin lan-<br>guage and<br>literature.                              | The influence of James<br>Madison upon educa-<br>tion.                                 |
| <ol> <li>Herbert Grant Campbell,</li> <li>Ph.B., Cornell College (Ia.), 1896.</li> </ol>   | Philosophy.                            | Psychology;<br>Sociology<br>and statis-   | Critical review of Hume's theory of causation.   |
| (1a.), 1890.<br>13. Alice Casamajor,<br>A.B., Adelphi College,<br>1899.  | Education.                             | tics.<br>European his-<br>tory; Soci-<br>ology and<br>statistics.                 | The growth of the study<br>of history in secondary<br>schools in the United<br>States. |
| <ol> <li>Raymond Chamber-<br/>lain,</li> <li>Ph.B., Illinois Wesley-<br/>an University, 1900;</li> <li>A.B., Columbia Uni-<br/>versity, 1901.</li> </ol> | Philosophy.                            | Ethics;<br>Education.   | Influence of the episte-<br>mology of Kant upon<br>the theory of education.            |

# TABLE VIII (continued)

| Candidate  | Major Subject                          | Minor Subjects   | Title of Essay   |
|--|--|--|--|
| •  |  |  |  |
| Clark,<br>A.B., Wellesley Col-<br>lege, 1882; A.M.,  | and litera-                            | Roman archæ-<br>ology; Edu-<br>cation.                 | The Rome of Romulus,<br>considered topographi-<br>cally.   |
| 1893.<br>16. David Excelmons<br>Cloyd,<br>Ph.B., University of<br>Minnesota, 1901.               | Education.                             | Philosophy;<br>Sociology<br>and statis-<br>tics.       | Benjamin Franklin and<br>education.  |
|  | Education.                             |  | Historical English gram-<br>mar in the high school.  |
| 18. Margaret Elmer Coe,<br>A.B., Smith College,<br>1897.   | English.                               | English; Com-<br>parative lit-<br>erature.             | Samuel Sewall; a study in<br>New England charac-<br>ter.   |
| 19. Harrison Siner Col-<br>burn,<br>B.S., Purdue Univer-<br>sity, 1900.                          | Education.                             |  | Astudy of evening schools.   |
| <ol> <li>20. Elizabeth Christine<br/>Cook,<br/>A.B., Smith College,<br/>1899.</li> </ol>         |  | English; Edu-<br>cation.                               | Noah Webster's theories<br>on English usage.   |
| 21. Margaret Elsie Cross,<br>B.S., Central Normal<br>College (Ind.), 1888.                       |  | Education;<br>Sociology<br>and statis-<br>tics.        | The origin and develop-<br>ment of public educa-<br>tion in Louisiana.   |
| <ul> <li>22. Ellwood P. Cubber-<br/>ley,<br/>A.B., University of In-<br/>diana, 1891.</li> </ul> | Education.                             |  | Syllabus outline of the history of education.  |
| <ul> <li>23. Elizabeth Teresa<br/>Daly,</li> <li>A.B., Bryn Mawr College, 1901.</li> </ul>       | English.                               |  | Pater as a critic of<br>English poetry.  |
| 24. Alice Belle Dawson,<br>A.B., Oxford College,<br>1891.  | Education.                             | Education;<br>Latin lan-<br>guage and<br>literature    | secondary schools of the<br>United States  |
| <ol> <li>Jean Louise de For-<br/>est,<br/>Ph.B., Wesleyan Uni-<br/>versity, 1896.</li> </ol>     | English.                               | European his-<br>tory; Edu-<br>cation.                 | Charles Wolfe: his life  |
| 26. Sidney Harry Dixon,<br>A.B., Columbia Uni-<br>versity, 1900.                                 | Latin language<br>and litera-<br>ture. | Greek language<br>and litera-<br>ture; Educa-<br>tion. | The mining economy of<br>the ancient Romans.   |
| 27. Darius Eatman,<br>A.B., University of<br>North Carolina,1897.                                | Education.                             | Education;<br>English.                                 | A study of Bryant's po-<br>etry.   |
| 28. Aaron Eiseman,<br>Ph.B., New York Uni-<br>versity, 1901.                                     | Philosophy.                            | Education; So-<br>ciology and<br>statistics.           | The conception of the<br>logos in Greek philoso-<br>phy, with special refer-<br>ence to the Philonian<br>system. |

| Candidate   | Major Subject              | Minor Subjects                                     | Title of Essay  |
|---|----------------------------|--|---|
| 29. Isabel Elias,<br>A.B., Trinity College<br>(N. C.), 1899.  | English.                   | guages and<br>literatures;<br>European             | De Quincey's theory of style.   |
| 30. Edith Miriam Fair-<br>child,<br>Ph.B., Berea College,<br>1897.  | English.                   | history.<br>English;<br>History.                   | Early American maga-<br>zines.  |
| 31. Frank Andrews Fall,<br>A.B., Albion College,<br>1899.   | Comparative<br>literature. | Comparative<br>literature;<br>European<br>history. | Mezentius: a character<br>sketch.   |
| <ol> <li>Frederick Ernest Far-<br/>rington,</li> <li>A.B., Harvard Univer-<br/>sity, 1894.</li> </ol>               |                            | Education;<br>Psychology.                          | Cicero's educational ideals.  |
| 33. Abram Fischlowitz,<br>B.S., College of the<br>City of New York,<br>1890; C.E., New<br>York University,<br>1895. | Education.                 | Education;<br>Psychology.                          | An inductive study of the<br>abilities involved in<br>drawing.  |
| 34. Emma Abbie Foun-<br>tain,<br>A.B., Colby Univer-  |                            | English; Edu-<br>cation.                           | History of the study of<br>English in New England<br>secondary schools<br>(1635-1901).                                    |
| sity, 1895.<br>35. Sidney Marsden<br>Fuerst,<br>A.B., Columbia Uni-<br>versity, 1901.                               | Education.                 | Education;<br>English.                             | The correlation of special tests with class stand-<br>ing and general ability.  |
| 36. Edward Montague<br>Gammon,<br>B.S., University of<br>Georgia, 1895.   | Education.                 | Education;<br>Psychology.                          | The development of ideas<br>on physical training in<br>the United States.   |
| <ul> <li>37. Robert McCheyne<br/>George,<br/>B.S., Geneva College,<br/>1897.</li> </ul>                             | English.                   | English;<br>Education.                             | Anna Seward.  |
| <ol> <li>Alice Schieffelin Gib-<br/>son,</li> <li>A.B., Vassar College,</li> <li>1901.</li> </ol>                   | Education.                 | Education;<br>English.                             | Matthew Arnold's studies<br>in French and German<br>education.  |
| 39. Anna Liguoria Gray,<br>Ph.B., Brown Univer-   | English.                   | English; Edu-<br>cation.                           | Maturin as a novelist.  |
| sity, 1899.<br>40. Glen Arnold Grove,<br>A.B., Colgate Univer-  | English.<br>Germanic lan-  | losophy.<br>Germanic lan-                          | The comedies of William<br>Shakespeare compared<br>with their prototypes.<br>Lenau's "Faust" com-<br>pared with Goethe's. |

| Candidate  | Major Subject              | Minor Subjects                                       | Title of Essay  |
|--|----------------------------|--|---|
| B.S., Teachers College,<br>Columbia Univer-  |                            | Education;<br>Geography.                             | Practice teaching in Ger-<br>man normal schools.                |
|  | Education.                 | Education;<br>Greek.                                 | Pestalozzi: his life and principles.                            |
| 44. Felix Hecht,<br>B.S., College of the<br>City of New York,<br>1900.   | English.                   | Psychology;<br>European<br>history.                  | The influence of Keats<br>upon the early poetry<br>of Tennyson. |
| <ul> <li>45. Florence French<br/>Henry,</li> <li>A.B., Cornell University, 1901.</li> </ul>                        | and litera-                | Greek language<br>and litera-<br>ture; Geol-<br>ogy. | The influence of Oriental<br>cults on Roman reli-<br>gion.      |
| <ol> <li>46. Frederick William<br/>Justus Heuser,<br/>A.B., Columbia Uni-<br/>versity, 1901.</li> </ol>            | guages and                 | Germanic lan-  | Walter Scott.   |
| 47. Carrie May Hille-<br>meier,<br>A.B., Wellesley Col-<br>lege, 1901.   | Philosophy.                |  | Causality: a comparison<br>of Hume's and Kant's<br>doctrines.   |
| <ul> <li>48. Abbie Sylvia Hod-<br/>getts,</li> <li>A.B., Nebraska Wes-<br/>leyan University,<br/>1896.</li> </ul>  | English.                   | English;<br>Education.                               | Dryden's prose style.   |
| <ol> <li>Harry Hopkins Hub-<br/>bell,<br/>A.B., Williams College,<br/>1898.</li> </ol>                             | Education.                 | Education;<br>Latin.                                 | Studies in the vocabulary<br>of Cæsar's "Gallic<br>War."        |
|  | Philosophy.                | Psychology;<br>Education.                            | A discussion of the limits<br>and divisions of ethics.          |
| 51. Hilda Emily Joseph-<br>thal,<br>A.B., Columbia Uni-<br>versity, 1901.  | Comparative<br>literature. | English; Soci-<br>ology and<br>statistics.           | Heine, Beranger, and<br>Burns.                                  |
| <ul> <li>52. Mordecai Menahem<br/>Kaplan,</li> <li>A.B., College of the<br/>City of New York,<br/>1900.</li> </ul> |                            | Education;<br>Sociology<br>and statis-<br>tics.      | The ethical system of H.<br>Sidgwick.                           |
| 53. Mary Stewart Ken-<br>nedy,<br>Pd.M., New York Uni-<br>versity, 1899; A.B.,<br>Adelphi College,<br>1901.        | Comparative<br>literature. | French; Phi-<br>losophy.                             | Herder and his relations<br>to romanticism.                     |

| Major Subject              | Minor Subjects   | Title of Essay   |
|----------------------------|--|--|
| English.                   | Philosophy;<br>European<br>history.  | Periodical literature in<br>America, 1790–1815.  |
|                            | Germanic lan-<br>guages and<br>literatures;  |  |
| Comparative<br>literature. | English; Ger-<br>manic lan-<br>guages and  | Volney in his influence on<br>Shelley.   |
|                            | Biology;<br>Botany.  | Botany as a high-school<br>study and as an en-<br>trance option to college.  |
| English.                   | English; Edu-<br>cation.   | A study of Wordsworth's<br>sonnets with special<br>reference to their struc-<br>ture.  |
|                            | Education;<br>Psychology.  | The development of the elementary curriculum.  |
|                            | Education;<br>Geography.   | Influence of Horace Mann<br>on the training of teach-<br>ers.  |
|                            | Education;<br>Botany.  | How may the high-school<br>work in biology be made<br>to meet the demands of<br>both the school and the<br>college?  |
|                            | English;<br>Education.   | The conventions of the<br>Greek and the Eliza-<br>bethan stage.  |
| Education.                 | Psychology;<br>Chemistry.  | Correlations among the<br>abilities involved in<br>high-school work.   |
| guages and<br>literatures. | guages and<br>literatures;<br>Latin.   | A comparison of the ver-<br>sification of Edmond<br>Rostand and Victor<br>Hugo.  |
|                            | English; Eng-<br>lish.   | An introduction to a col-<br>lection of old English<br>ballads designed for<br>high-school work.   |
| -                          | English; Euro-<br>pean history.  | William Cowper and his   |
| and litera-<br>ture.       | Latin language<br>and litera-<br>ture; Greek<br>archæology.  | dar.   |
|                            | English.<br>Germanic lan-<br>guages and<br>literatures.<br>Comparative<br>literature.<br>Education.<br>English.<br>Education.<br>Education.<br>Education.<br>Education.<br>Education.<br>Romance lan-<br>guages and<br>literatures.<br>Education.<br>Greek language<br>and litera- | English.Philosophy;<br>European<br>history.Germanic lan-<br>guages and<br>literatures.Germanic lan-<br>guages and<br>literatures;<br>Education.Comparative<br>literature.English; Ger-<br>manic lan-<br>guages and<br>literatures.Education.English; Ger-<br>manic lan-<br>guages and<br>literatures.Education.English; Ger-<br>manic lan-<br>guages and<br>literatures.Education.English; Edu-<br>cation.Education.English; Edu-<br>cation.Education.Education;<br>Psychology.Education.Education;<br>Geography.Education.Education;<br>Botany.Education.Education;<br>Botany.Education.Education;<br>Botany.Education.Education;<br>Botany.Education.Education;<br>Botany.Education.English;<br>Education.Education.English;<br>Education.Education.Psychology;<br>Chemistry.Romance lan-<br>guages and<br>literatures;<br>Latin.English.English; Eng-<br>lish.English.English; Eng-<br>lish.English.English; Eng-<br>lish.English.English; Eng-<br>lish.English.English; Eng-<br>lish.English.English; Euro-<br>pean history.Greek language<br>and litera-<br>ture.Latin language<br>and litera-<br>ture; Greek |

|     | Candidate   | Major Subject                          | Minor Subjects   | Title of Essay   |
|-----|---|--|--|--|
|     |   |  |  |  |
| 68. | May Hinton Pollack,<br>A.B., Columbia Uni-<br>versity, 1896.  |  | Education;<br>Latin.   | Development of method<br>in Latin in the second-<br>ary schools of the<br>United States. |
| 69. | Salomon Zuscha Pro-<br>kesch,<br>Ph.B., New York Uni-<br>versity, 1900.   | Philosophy.                            | Education;<br>Semitics.  | The ethics of the Talmud.  |
| 70. | <ul><li>William Bernard Raf-<br/>ferty,</li><li>A.B., St. Lawrence<br/>University, 1890.</li></ul>                        | Education.                             | Education;<br>Philosophy.  | Gradation and promo-<br>tion in the elementary<br>schools of New York<br>City.           |
|     | Katharine Campbell<br>Reiley,<br>A.B., Vassar College,<br>1805.   | and litera-<br>ture.                   | Latin archæ-<br>ology;<br>Greek archæ-<br>ology.                             | A comparison of the philo-<br>sophical terminology of                                    |
| 72. | James Joseph Rey-<br>nolds,<br>B.S., College of the<br>City of New York,<br>1893; LL.B., New<br>York University,<br>1897. | Education                              | Education;<br>Psychology.  | Promotion and grading in<br>the elementary schools<br>of the United States.              |
| 73. | Sarah Grace Royce,<br>A.B., Smith College,<br>1890.   | Greek.                                 | Latin; Educa-<br>tion.   | A study of the marriage<br>customs of ancient<br>Greece, as revealed in<br>the poetry.   |
|     | A.B., Columbia Uni-<br>versity, 1900.   |  | Comparative<br>literature;<br>Germanic<br>languages<br>and litera-<br>tures. | Petrarchism in Italy.  |
| 75. | Herbert Fedor Small,<br>A.B., Columbia Uni-<br>versity, 1901.   | Comparative<br>literature.             | Comparative<br>literature;<br>English.                                       | The influence of Petrarch in Germany.  |
| •   | Smith,<br>A.B., Columbia Uni-   | Psychology.                            | Education;<br>English.   | A comparative study of<br>the abilities of school<br>children in the school<br>subjects. |
| 77. | versity, 1900.<br>Beatrice Stepanek,<br>A.B., Wellesley Col-<br>lege, 1895.   | Greek language<br>and litera-<br>ture. |  | The Homeric shield of<br>Achilles and the Hesi-<br>odic shield of Herakles.              |
| 78. | Anthony Henry Suz-<br>zallo,<br>A.B.,Leland Stanford,<br>Jr.,University,1899.   | Education.                             |  | The development of the<br>text-book problem in<br>colonial elementary<br>schools.        |
| 79. | Beekman Ramsay<br>Terhune,<br>A.B., Princeton Uni-<br>versity, 1901.  | Education.                             |  | Comparison of Latin be-<br>ginner's books.   |
| 80. | Edwin Carleton Up-<br>ton,<br>B.S., University of<br>Maine, 1897.   | English.                               | English; Edu-<br>cation.   | English grammars of the<br>eighteenth century.   |

|     | Candidate  | Major Subject              | Minor Subjects   | Title of Essay   |  |  |
|-----|--|----------------------------|--|--|--|--|
| 81. | B.S., College of the<br>City of New York,  |                            | Education;<br>Psychology.                                    | The manual element in education.   |  |  |
| 82. | 1897.<br>Mark Waldmann,<br>Graduate of Lehrer-<br>Seminar, Berlin,<br>1895; of Lehrer-<br>Seminar,<br>Sagan, 1899. |                            | Education;<br>Psychology.                                    | The influence of the<br>Græco-Roman schools<br>on Ecclesiastes.              |  |  |
| 83. | Lake George Watson,<br>Ph.B., Earlham Col-<br>lege, 1900.  |                            | Education;<br>Germanic<br>languages<br>and litera-<br>tures. | Course of study for the first two years of school                            |  |  |
| 84. | Herman Jay Wells,<br>A.B., Williams Col-<br>lege, 1887.  | Education.                 | Education;<br>Philosophy.                                    | The study of literary<br>form in the higher gram-<br>mar grades.             |  |  |
| 85. | Myra Wirén,<br>B.L., Minnesota<br>State University,  | Comparative<br>literature. | Comparative<br>literature;<br>English.                       | Thomas Wyatt and the<br>introduction of Italian<br>influence into English    |  |  |
| 86. | 1900.<br>Nathan Wolf,<br>Ph.B., New York<br>University, 1900.  | Philosophy.                | Education;<br>Semitics.                                      | poetry.<br>Knowledge and faith in<br>the church philosophy                   |  |  |
| 87. | Oscar Israel Woodley,<br>A.B., Albion College,<br>1001.  |                            | Philosophy,<br>English.                                      | of the middle ages.<br>The place and importance<br>of the subjective self in |  |  |
| 88. | Adrian Monroe Yar-<br>rington,<br>B.L., Cornell Univer-  | Education.                 | Education;<br>Political<br>economy and                       | teaching.<br>American history in the<br>high school.                         |  |  |
| 89. | sity, 1892.<br>Stark Young,<br>A.B., University of<br>Mississippi, 1901.   | English.                   | finance.<br>English; Com-<br>parative lit-<br>erature.       | The poetry of James<br>Montgomery.   |  |  |

### TABLE IX

# RECOMMENDATIONS FOR DEGREES, 1901-1902

# Students having their major subject under the Faculty of Pure Science

### DOCTOR OF PHILOSOPHY

|   | ·             | L   |   |
|---|---------------|---|---|
| Candidate   | Major Subject | Minor Subjects                                    | Title of Dissertation   |
| <ol> <li>Benjamin Arthur Ben-<br/>sley,<br/>A.B., University of<br/>Toronto, 1896.</li> </ol>   | Paleontology. | Zoölogy;<br>Paleontol-<br>ogy.                    | The evolution of the Aus-<br>tralian marsupialia,<br>with remarks on the re-<br>lationship of the mar-<br>supials in general.   |
| <ol> <li>Leopold Boroschek,<br/>B.S., College of the<br/>City of New York<br/>1897; A.M., Colum-<br/>bia University, 1900.</li> </ol>                                     |               | Chemistry;<br>Physics.                            | Some new derivatives of<br>the mono-nitro-ortho-<br>phthalic acids.   |
| <ol> <li>William Austin Can-<br/>non,</li> <li>A.B., Leland Stanford<br/>Jr., University, 1899<br/>A.M., 1900.</li> </ol>   | Botany.       | Physiology;<br>Zoölogy.                           | Studies in plant hybrid <mark>s</mark> .  |
| <ol> <li>Carl Gundersen,<br/>A.B., Leland Stanford<br/>Jr., University, 1897;<br/>A.M., Columbia Uni-<br/>versity, 1899.</li> </ol>                                       |               | Astronomy;<br>Mechanics.                          | On the measure or content<br>of assemblages of points.  |
| <ol> <li>Cassius Jackson Key-<br/>ser,<br/>B.S., University of<br/>Missouri, 1892; A.M.<br/>Columbia Univer-<br/>sity, 1896.</li> </ol>                                   |               | Mechanics;<br>Mechanics.                          | The plane geometry of the point in space of four dimensions.  |
| <ol> <li>George Alfred Law-<br/>rence,</li> <li>A.B., Leland Stanford<br/>Jr., University, 1892</li> <li>M.D., Columbia Uni-<br/>versity, 1895; A.M.<br/>1806.</li> </ol> |               | Zoölogy; An-<br>thropology;<br>Bacteriol-<br>ogy. | Studies upon the cerebral<br>cortex in the normal<br>human brain and in<br>dementia paralytica.   |
| <ol> <li>Floyd Jay Metzger,<br/>Ph.B., Buchtel College<br/>1899.</li> </ol>   | Chemistry.    | Chemistry;<br>Physics.                            | A new separation of tho-<br>rium from cerium, lan-<br>thanum and didymium,<br>and its application to<br>the analysis of mona-<br>zite.                                      |
| <ol> <li>Charles Joseph Pretz-<br/>feld,</li> <li>A.B., Columbia Uni-<br/>versity, 1898; A.M.<br/>1900.</li> </ol>  | - <br>-       | Chemistry;<br>Physics.                            | A new separation of mer-<br>cury from arsenic, anti-<br>mony, and copper, and<br>its application to the<br>analysis of tetrahedrite.  |
| 9. Austin Flint Rogers,<br>A.B., University of<br>Kansas, 1899; A.M.<br>1900.   | Mineralogy.   | Geology;<br>Chemistry.                            | crystallographic studies:<br>(a) The morphology of<br>certain organic com-<br>pounds. (b) The cal-<br>cites of the New Jersey<br>trap region. (c) New<br>graphical methods. |

# TABLE IX (continued)

| Candidate   | Major Subject | Minor Subjects | Title of Dissertation   |  |  |  |  |  |  |
|---|---------------|----------------|---|--|--|--|--|--|--|
| <ol> <li>John Cutler Torrey,<br/>A.B., University of<br/>Vermont, 1898.</li> <li>Lewis Addison Youtz,<br/>Ph.B., Simpson Col-<br/>lege, 1890; Ph.M.,<br/>1893.</li> </ol> | Chemistry.    | ology.         | The early development of<br>Thalassema.<br>A study of the quantita-<br>tive determination of<br>antimony. |  |  |  |  |  |  |

### MASTER OF ARTS

| Candidate   | Maine Cultient | Minor Cultions   | Title of Essay  |  |  |  |  |
|---|----------------|--|---|--|--|--|--|
| Candidate   | Major Subject  | Minor Subjects   |   |  |  |  |  |
| <ol> <li>Norris Caleb Bailey,<br/>B.S., Wesleyan Uni-<br/>versity, 1899.</li> </ol>                       | Mathematics.   | Mechanics;<br>Education.                                   | The representation of dis-<br>continuous functions by<br>analytic formulæ.              |  |  |  |  |
| <ol> <li>Arthur Horace Blan-<br/>chard,<br/>C.E., Brown Univer-<br/>sity, 1899.</li> </ol>                |                | Civil Engineer-<br>ing; Miner-<br>alogy.                   | A review of the methods   |  |  |  |  |
| 3. Irving Crawford Bull,<br>Ph.B., Yale Univer-<br>sity, 1901.  | Chemistry.     | Chemistry;<br>Physics.                                     | On the determination of lead in ores.   |  |  |  |  |
| <ol> <li>Hariette Arms Curtiss,<br/>Ph.B., Syracuse Uni-<br/>versity, 1900.</li> </ol>                    |                | Botany; Edu-<br>cation.                                    | The origin of the gonads<br>in the platodes.  |  |  |  |  |
|   | Botany.        | Botany; Politi-<br>cal economy<br>and finance.             | The North American Ge-<br>raniaceæ.   |  |  |  |  |
| <ol> <li>Charles Cotton Har-<br/>rold,<br/>B.S., University of<br/>Georgia, 1898.</li> </ol>              |                | Physiology;<br>Physiology.                                 | The action of phlorhizin<br>on muscle.  |  |  |  |  |
|   | Medicine.      | Physiological<br>chemistry;<br>Physiological<br>chemistry. | The chemical reaction of osseomucoid.   |  |  |  |  |
| <ol> <li>Rosina Julia Rennert,<br/>A.B., Columbia Uni-<br/>versity, 1901.</li> </ol>                      | Botany.        |  | Seeds and seedlings of<br>arissema tryphyllum<br>and arissema dracor-<br>tium.          |  |  |  |  |
| <ol> <li>Alfred Eugene Roberts,<br/>A.B., Wesleyan Uni-<br/>versity, 1899.</li> </ol>                     | Chemistry.     | Chemistry;<br>Physiological<br>chemistry.                  | A comparison of the re-<br>cently proposed meth-<br>ods for determining po-<br>tassium. |  |  |  |  |
| <ol> <li>Floyd Thomas Voris,<br/>B.S., Highland Park<br/>Normal College,<br/>1892; M.S., 1900.</li> </ol> |                | Chemistry;<br>Chemistry.                                   | The absorption of light by<br>various polished metal-<br>lic surfaces.                  |  |  |  |  |

# TABLE IX (continued)

| Candidate   | Major Subject | Minor Subjects             | Title of Essay  |
|---|---------------|----------------------------|---|
| <ul> <li>II. Charles Partridge<br/>Weston,</li> <li>B.C.E., Maine State<br/>College, 1896; C.E.,</li> <li>University of<br/>Maine, 1899.</li> </ul> |               | Mathematics;<br>Astronomy. | Determination of the divi-<br>sion errors of the white<br>bronze meter of the de-<br>partment of mechanics. |
| 12. Lorande Loss Wood-<br>ruff,<br>A.B., Columbia Uni-<br>versity, 1901.  |               | Zoölogy;<br>Physiology.    | On the multiplication of stylonychia mytilus.   |

### TABLE X

### RECOMMENDATIONS FOR DEGREES, 1901-1902

Students having their major subject under the Faculty of Applied Science.

### DOCTOR OF PHILOSOPHY

|    | Candidate  | Major Subject | Minor Subjects             | Title of Dissertation  |  |  |  |  |  |
|----|--|---------------|----------------------------|--|--|--|--|--|--|
| τ. | Robert Henry Brad-<br>ford,  | Metallurgy.   | geology;                   | Reactions of the Ziervogel<br>process, and their tem-                          |  |  |  |  |  |
|    | B.S., University of  |               | Mining.                    | perature limits.   |  |  |  |  |  |
| 2. | Utah, 1895.<br>Robert Heywood Fer-<br>nald,<br>B.M.E., Maine State   | gineering.    | Mechanics;<br>Mathematics. | Working details of a gas-<br>engine test, including a<br>method of determining |  |  |  |  |  |
|    | College, 1892; M.E.,<br>Case School of Ap-<br>plied Science, 1898;   |               |                            | the temperatures of ex-<br>haust gases.  |  |  |  |  |  |
| 3. | A.M., Columbia Uni-<br>versity, 1901.<br>Charles Edward Lucke,<br>B.S., College of the City<br>of New York, 1895;<br>M.S., New York<br>University, 1899. | gineering.    | Mechanics;<br>Physics.     | The heat-engine problem.   |  |  |  |  |  |

### MASTER OF ARTS

| Candidate  | Major Subject  | Minor Subjects   | Title of Essay   |
|--|--|--|--|
| <ol> <li>Samuel David Bleich,<br/>B.S., College of the City<br/>of New York, 1890.</li> <li>Charles Albert Fach,<br/>B.S., University of<br/>Missouri, 1901.</li> <li>John Arthur Morgan,<br/>E.E., Lafayette Col-<br/>lege, 1901.</li> <li>Charles Edward Mor-<br/>rison,<br/>B.S., College of the City<br/>of New York, 1897.</li> <li>David Heydorn Ray,<br/>A.B., College of the<br/>City of New York,<br/>1897; B.S., Columbia</li> </ol> | Civil engineer-<br>ing.<br>Mining.<br>Electrical engi-<br>neering.<br>Civil engineer-<br>ing.<br>Architecture. | Civil engineer-<br>ing; Mechan-<br>ics.<br>Metallurgy;<br>Geology.<br>Mechanical en-<br>gineering;<br>Mechanics. | Vortex motion.<br>Study of the cost of pro-<br>ducing copper in certain<br>Michigan copper mines.<br>Resistance of electro-<br>types.<br>Slavery and nullification<br>in South Carolina.<br>First geodetic work in<br>America; being an ac-<br>count of the work of<br>Charles Mason and Jere- |
| University, 1901.  |  |  | miah Dixon in deter-<br>mining the boundary be-<br>tween the royal grants<br>of Lord Baltimore and<br>William Penn, and the<br>incidental measurement<br>of a meridian arc of<br>one degree.   |

| Candidate  | Major Subject                  | Minor Subjects                              | Title of Essay   |
|--|--------------------------------|---|--|
| <ol> <li>William T. Reich,<br/>Mech.E., Technical<br/>University of Vienna,<br/>1888.</li> </ol>                           | Electrical engi-<br>gineering. | Mechanics;<br>Civil engi-<br>neering.       | Internal impedance of al-<br>ternating current ma-<br>chines.                                      |
| <ol> <li>Charles Comfort Starr,<br/>Ph.B., Yale Univer-<br/>sity, 1900.</li> </ol>   |                                | Geology;<br>Metallurgy.                     | A design for the hoisting<br>plant at an iron mine.  |
| <ol> <li>Hugh Philip Tiemann,<br/>B.S., Columbia Uni-<br/>versity, 1900.</li> </ol>  |                                | Mechanical en-<br>gineering;<br>Mineralogy. | The temperature limits of<br>the conversion of mor-<br>tensite into graphite in<br>pure cast iron. |
| <ol> <li>Charles Rapelyea Wyc-<br/>koff, Jr.,</li> <li>B.S., Polytechnic In-<br/>stitute of Brooklyn,<br/>1899.</li> </ol> | ing.                           | Civil engineer-<br>ing; Mechan-<br>ics.     | Moments of inertia.  |

### TABLE X (continued)

The following tables represent in condensed form the titles of the courses in which instruction has been given in each department of the University during the academic year 1901– 1902, the officers who have given the courses, the number of hours a week for which the courses have been scheduled, and the number and classification of students authorized to attend the courses.

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|-----------------|----------------|-----------------------|----------------------------|-------------------|---------------|---------------------------------------|---------------|---|-----------------------------|----------------------------------|------------|--|-----------------|--|---------------------------------------|
|                 | Grand<br>Total | 202                   | 250                        | × 5 0             | 268           |                                       | 198           | 198                                     | 201                         | 1 40                             | I          | н  | 3               | 3  | 1770                                  |
|                 | Spec.          | 4                     | •                          | •                 | ~             | 1                                     | • • • • •     | ••••••••••••••••••••••••••••••••••••••• | ••••••                      | •                                | •          | •••••••••••••••••••••••••••••••••••••••                    | •               |  | 12                                    |
| Students        | M.D.           | 198                   | 240                        | 240               | 250           | ן<br>ר                                | 198           | 198                                     | 198                         | 1 40                             | •          | • • • • •  | •               |  | 1720                                  |
| Ň               | A.M.,<br>Ph.D. | •                     | •                          | •                 |               |                                       | •             | •                                       | •                           | •                                | I          | I  | 3               | 3  | 8                                     |
|                 | A.B.           |                       | 10                         | 10                | 01            |                                       | •             | :                                       | :                           | •                                |            | •  |                 |  | 30                                    |
| Hours           | Week           | 3                     |                            | 2                 |               |                                       | •             | 3                                       | (1)                         | -                                | Res.       | Res.   | Res.            | Res.   |                                       |
| Lessons<br>each | Student        |                       | •                          | •                 | 216 hrs.      |                                       | 120 hrs.      | •                                       | •                           | •                                | •          | •  |                 |  | · · · · · · · · · · · · · · · · · · · |
| Instructor      |                | Huntington            | Vosburgh and               | Huntington, Gal-  | Demonstrators | Huntington, Gal-<br>laudet, and Asst. | Demonstrators | Gallaudet                               | Floyd                       | T. TTTT P                        | Huntington | Huntington   | Huntington      | Huntington   | Total                                 |
| Title of Course |                | Vertebrate Morphology | Demonstrations to Sections | Laboratory Course |               | Laboratory Course                     |               | Demonstrations to Sections.             | Demonstrations to Sections. | Laboratory Course in Animal Mor- | :          | Cranial Topography<br>Comparative Anatomy of the Heart and | Vascular System | reputer of the relation of the |                                       |
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|   |             | Grand<br>Total | 28                            | 47                           | 37                                  | 35                           | 46                          | 27                       |                        | 200               | 38                                | 25                        | 61                    |                | 000    |             | 41                                       | 10                                      | 61                  | 13                  | 2014                 |                                | 4                             |                                    |                                 | c                      | 17      |
|   |             | Spec.          | I                             | ∞                            | 9                                   | 2                            | 6                           | H >                      | - 4                    |                   | 4                                 | 3                         |                       | 0              | 61     | :           |  | ~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                     | :                   | 2                    | •                              | N                             |                                    |                                 |                        | F       |
|   | Students    | B.S.<br>Arch.  | 26                            | 39                           | 31                                  | 28                           | 40                          | 52                       | 4 4                    | 24                | 34                                | 22                        | 61                    | 2 d            | 20 C   | 0 0         | 61                                       | 4 0                                     | 61                  | 13                  | S<br>S               | 0I                             | 17                            |                                    |                                 |                        | 16<br>1 |
|   | St          | A.M.           |                               |                              | :                                   |                              |                             | :                        | :                      |                   |                                   |                           | :                     | :              | :      | :           | :  |   |                     | ••••••              |                      |                                |                               | :                                  |                                 | ,                      |         |
|   |             | A.B.           | I                             |                              |                                     |                              | :                           | I                        |                        |                   |                                   | :                         | •                     |                | :      |             | :  |   |                     |                     | :                    | :                              | :                             | :                                  |                                 |                        |         |
|   | Hours       | Week           | Ą                             | 1 01                         | н                                   | H                            | н                           | ŝ                        | x                      | 4 0               | ~                                 |                           | 8                     | 8              | N      | 0           |  |   | - 01                | N                   | H                    | 0                              | 25                            | 1.51                               |                                 |                        | 38      |
|   | Turcturator |                | Kress                         | Hamlin. Kress.               | Ware                                | Hamlin.                      | Hamlin                      | Partridge                | Harriman               | Kress             | Sherman.                          | Ware                      | Sherman               | Warren         | Warren | Sherman     | Sherman.                                 | Ware Hamlin Partridoe                   | Kress.              | Kress               | Ware, Sherman        | Ware                           | Hamlin, Hornbostel            | Snelling.                          |                                 | Ware, Hamlin, Hornbos- | tel     |
|   | U 97 - 1474 | TILE OF CORRE  | Ancient Architectural History | Modern Architectural History | Theory of Architecture. Color-Style | History of Ancient Ornament. | History of Modern Ornament. | Elements of Architecture | Architectural Drawing. | Freehand Drawing. | Projections. Shades, and Shadows. | Perspective (12 Lectures) | Descriptive Geometry. | Specifications |        | Engineering | Arch. Engineering (Analytical Mechanics) | Arch. Engineering (Applied Mechanics)   | Archæology. French. | Archæology, German. | Architectural Essays | Advanced Architectural History | Advanced Architectural Design | Advanced Architectural Engineering | Havanced Architectural Fractice | and Practice           | Thesis  |
|   | 2           | NO.            | +                             | + 0                          | 04                                  | + 1                          | 20                          | .00                      | 91                     | 92                | 01                                | II                        | 12                    | 131            | 132    | 141         | I42                                      | 143                                     | , 9<br>1<br>1<br>0  | 16                  | 17                   | 18                             | 19                            | 50                                 | 21                              | 1                      |         |

DEPARTMENT OF ARCHITECTURE

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| REGIST | RAR'S | REPORT |
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| No.     Title of Course     Instructor     Hours<br>Week     A.B.     A.B.       1     General Astronomy     M. W.     M. W.     M.     M.       30     Geodesy     Geodesy     24     4     22       31     Geodesy     Spherical and Practical Astronomy     24     4     24       33     Geodesy     3     24     4     12       4     Spherical and Practical Astronomy     Mitchell, Rees     2     12       7     Total     24     4     2     69   |         | :     | Grand           |    | 28                | 24          | 22        | 12                      | II           | ы                                | 66    |                             |
|---|---------|-------|-----------------|----|-------------------|-------------|-----------|-------------------------|--------------|----------------------------------|-------|-----------------------------|
| Title of Course     Instructor     Hours       Title of Course     Instructor     Mours       General Astronomy     Rees, Mitchell     M.       Geodesy     Instructure     2       Geodesy     Jacoby, Mitchell     2       Geodesy     2     4       Geodesy     4       Spherical and Practical Astronomy     Anthe Action       *     Mitchell, Rees     2       Total     2     4  |         | ą     |                 | 1  |                   | 24          | 22        | I 2                     | II           | •••••                            | 69    |                             |
| Title of Course     Instructor     Hours       Title of Course     Instructor     Week       General Astronomy     Rees, Mitchell     2       Geodesy     Jacoby, Mitchell     2       Geodesy (Summer School)     Jacoby, Mitchell     2       Geodesy (Summer School)     Jacoby, Mitchell     2       Apherical and Practical Astronomy     Mitchell, Rees     4       *     Total     *   | Student |       | A.M.,<br>Ph.D.  | M. |                   |             | •         | •                       | • • • • •    |                                  | 8     |                             |
| Title of Course     Instructor     Hours       Title of Course     Instructor     Week       General Astronomy     Rees, Mitchell     2       Geodesy     Jacoby, Mitchell     2       Geodesy (Summer School)     Jacoby, Mitchell     2       Geodesy (Summer School)     Jacoby, Mitchell     2       Apherical and Practical Astronomy     Mitchell, Rees     4       *     Total     *   |         |       | .В.             | W. | 4                 | •           | •         | •                       |              | •                                | 4     |                             |
| Title of Course       Title of Course         General Astronomy       Recent Rece |         |       | A               | M. | 24                | • • • • • • | • • • • • | •                       |              | :                                |       |                             |
| Title of Course       Title of Course         General Astronomy       Recent Rece |         | Hours | Week            |    | 6                 | 9           | ~         | ¥                       | 9            | 4                                |       |                             |
|   |         |       | Instructor      |    | Rees, Mitchell.   | ÷           | ÷         | Jacoby, Mitchell        | Jacoby, Kees | Mitchell, Kees                   | Total | field work, June 4-July 15. |
|   |         |       | Title of Course |    | General Astronomy | :           |           | Geodesy (Summer School) | reodesy      | opnencal and Fractical Astronomy |       | • 6 weeks'                  |
|   |         |       | No.             |    | н                 |             | _         | 32                      | 33           | 4                                |       |                             |

DEPARTMENT OF ASTRONOMY

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|          | Grand                      | lotal | 7                    | I       | 63 ⊨                               | 4                 | 79                                    | I                               | 61                                      | r)                                      |  | H                                       | I                                     | 98        |
|          | T.C. E.M. C.E. Spec. Grand |       | I                    |         |                                    |                   | I                                     | ••••••                          | •••••                                   | •                                       |  | :                                       | ••••••                                | 5         |
|          | C.E.                       |       |                      |         | :                                  |                   | 30                                    |                                 | •••••                                   | •••••                                   |  | ••••••                                  | ••••••                                | 30        |
| Students | E.M.                       |       |                      |         | :                                  |                   | 47                                    | •••••                           | ••••••                                  | ••••••••••••••••••••••••••••••••••••••• |  | ••••••                                  | ·<br>·<br>·<br>·<br>·<br>·            | 47        |
| <br>Stud | T.C.                       |       |                      |         | I                                  |                   |                                       | :                               | ••••••••••••••••••••••••••••••••••••••• | ••••••••••••••••••••••••••••••••••••••• |  | ••••••                                  | :                                     | 5 I 47 30 |
|          | A.M., Ph.D.                | W.    |                      |         |                                    | •                 | · · · · · · · · · · · · · · · · · · · | H                               | H                                       | 9                                       |  | :                                       | I                                     | s         |
|          | A.M.,                      | M.    | a                    |         |                                    |                   | :                                     | :                               | I                                       | н                                       |  | I                                       |                                       | S         |
|          | A.B.                       |       | 4                    | I       |                                    | 4                 | I                                     |                                 | ••••••                                  |   |  | ••••••••••••••••••••••••••••••••••••••• | :                                     | 8         |
| Hours    | Week                       |       | 3                    | 3       | <i>.</i>                           | s                 | R                                     | 01                              | OI                                      | IO                                      |  | 01                                      | S                                     |           |
|          | Instructor                 |       | Curtis               | Curtis  | Curtis                             | Underwood, Ander- | son                                   | Lloyd                           | MacDougal                               | Lloyd                                   | Underwood, Mac-                        | Dougal                                  | Underwood                             | Total     |
|          | Title of Course            |       | Elementary Botany    |         | Flant PhysiologyBotanical Problems |                   |                                       | Taxonomy of Spermatophyta Lloyd | General Physiology MacDougal            | Imbryology of Spermatophyta Lloyd       | Physiology of the Cell Underwood, Mac- |   | 25 Taxonomy of Pteridophyta Underwood |           |
|          | f                          |       | Elementa<br>Comparat | cular F | & 7 Plant Ph                       | General           | E                                     | Taxonon                         | General                                 | Embryo                                  | Physiolo                               | 1                                       | Taxonom                               |           |

DEPARTMENT OF BOTANY

|          |                                    | :  |  |   |                    |                                       | _                    | 0.0              | ~                     | ~~       | 00                    | 0.                    | 0                     | 2                     | 4                     | 5               |
|----------|------------------------------------|----|--|---|--------------------|---------------------------------------|----------------------|------------------|-----------------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|
|          | bns<br>Isto                        |    | 210  |   | 0,5                | - m                                   |                      | 520              | 21                    | E I      | 36                    | 50                    | Ĩ                     | 12                    | •                     | °               |
|          | Spec.                              |    | 1  | •   | :                  |                                       |                      | 61               | 0                     | I        | :                     | 61                    | :                     | :                     | н                     | 3               |
|          | Эср.                               | W  | 34   |   | •                  |                                       |                      | 40               | •                     | :        | :                     | :                     | :                     | •                     | :                     | :               |
|          | E.E.                               |    | 30   |   | :                  |                                       |                      | 45               | :                     | •        | 38                    | •                     | •                     | :                     | •                     | :               |
|          | C.E.                               |    | 31   |   | :                  |                                       |                      | 37               | •                     | :        | •                     | •                     | •                     | •                     | :                     | •               |
| ents     | M.D. E.M. Met. B.S. C.E. E.E. See. |    | II   |   | 00 0               | 4                                     |                      | 13               | 6                     | ŝ        | :                     | •                     | 15                    | ŝ                     | •                     | 15              |
| Students | Met.                               | 1  | -  |   | :                  |                                       |                      | 61               | 0                     | •        | :                     | •                     | :                     | 61                    | •<br>•<br>•           | 3               |
|          | E.M.                               |    | 53   | 104   |                    | · · · · · · · · · · · · · · · · · · · |                      | 57               | :                     | :        | :                     | 47                    | :                     | •                     | ••••••                | 42              |
|          | M.D.                               |    |  | 104   |                    | • •                                   |                      | :                | :                     | •        | :                     | :                     | :                     | •                     | •                     | •               |
|          |                                    | W. |  |   |                    | . I<br>                               |                      | :                | :                     | •        | •                     | :                     | :                     | :                     | :                     | •               |
|          | A.M., Ph.D.                        | .W |  |   |                    | р 6                                   |                      | :                | ŝ                     | 9        | •                     | •                     | I                     | 2                     | 3                     | 0               |
|          | A.B.                               |    | 40   | È i   | I                  |                                       |                      | 24               | •                     | I        | •                     | I                     | •                     | •                     | :                     | :               |
|          | Instructor                         |    | Chandler, Laudy,<br>Whitaker, Tucker, 40                         | Pellew, Vulte,<br>Goodell, Uhlig                            | Morgan             | Morgan.                               | Wells, Neish, Whit-  | aker, Dreyfus 24 | Miller, Jouet         | Whitaker | Sherman, Tingle       | Miller, Jouet         | Sherman               | Miller, Sherman       | Miller                | Miller, Hubbard |
|          | Title of Course                    |    | 1 General Inorganic Chemistry Chandler, Laudy,<br>Whitaker. Tuck | General Inorganic Chemistry. Pellew, Vulte,<br>Goodell. Uhl | Physical Chemistry | Physical Chemistry                    | Qualitative Analysis |                  | Quantitative Analysis | istry    | Quantitative Analysis | Assaying.       |
| -        | No.                                |    | 1  | 6   | 3                  | 4 v                                   |                      |                  | 6                     | 2        | II                    | I 2                   | 13                    | 14                    | 16                    | 17              |

DEPARTMENT OF CHEMISTRY

|      | 1810                              |          | Lin,                                    | 00       | ~                 | 00                                   | 17               | 13   | 54         | 14             | 0.9                                   | 0         |
|------|-----------------------------------|----------|---|----------|-------------------|--------------------------------------|------------------|--|------------|----------------|---------------------------------------|-----------|
|      | bns.<br>Isto                      |          |   | _        |                   |                                      |                  |  | 145<br>24  | н              |                                       | 0111      |
|      | ents<br>B.S. C.E. B.E. Zini Spec. |          | 0                                       | ю        | 6                 |                                      | :                | :  | 6 н        | 3              | : <b>H</b>                            | 26        |
|      |                                   |          |   | :        | :                 | ::                                   | :                |  | 20<br>I    | ÷              | ::                                    | IOI       |
|      |                                   |          |   | :        | :                 | ::                                   | :                | :  | 30         | :              | . 4                                   | 96 I56    |
|      |                                   |          | :                                       | :        | :                 | ::                                   | :                | ÷  | 28         | :              | ::                                    | 96        |
| ents |                                   |          | :                                       | :        | :                 | 5.13                                 | и                | :  | 20         | н              | ::                                    | 128       |
| Stud | Met.                              | <b>ы</b> |   | ÷        | :                 | ::                                   | :                | :  | ·          | :              | : :                                   | 13        |
|      | E.M.                              |          |   | :        | :                 | ::                                   | :                | :  | 37         | :              | ::                                    | 236       |
|      | M.D.                              |          |   | :        | :                 | : :                                  | :                | :  | ::         |                | ::                                    | 194       |
|      | Ph.D.                             | W.       | :                                       | :        | :                 | ::                                   | :                | ÷  | ::         | :              | ::                                    | н         |
|      | A.M., Ph.D                        | M.       | 0                                       | н        | 61                | с н                                  | н                | 0  | нн         | I              | : H                                   | 52        |
|      | AB                                |          | H                                       | 4        | 3                 | ::                                   | :                | ÷  | II         | 6              | . 5                                   | 101       |
|      | Instructor                        |          | Tonet                                   | Chambers | Bogert, Chambers. | Bogert, Chambers<br>Bogert, Chambers | Bogert, Chambers | Bogert<br>Chandler, Pellew.                      | Laudy      | Pellew, Tucker | Pellew, Tucker<br>Pellew, Tucker      | Total 107 |
|      | Title of Course                   |          | rg Quantitative Analysis, Short Toutet. |          | Labora-           | Organic Chemistry                    | Labora-          | ic Chemistry, Research.<br>trial Chemistry, Gen- | <u>я</u> : | Chemistry, La- | Industrial Chemistry, La-<br>boratory |           |
|      | No.                               |          | 61                                      | 30       | 30                | 31                                   | 33               | 23   |            | 26             | 27<br>28                              |           |

DEPARTMENT OF CHEMISTRY-(continued)

\* Daily, six weeks.

|          |                 |           |            |          |                    |       |            |           |                   |            |                       |                              |                              |                            |                             |                           |              |             |                        |                               |                            |                        | -      |       |
|----------|-----------------|-----------|------------|----------|--------------------|-------|------------|-----------|-------------------|------------|-----------------------|------------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|--------------|-------------|------------------------|-------------------------------|----------------------------|------------------------|--------|-------|
|          | Grand<br>Total  | 98        | , ,        | 34<br>23 | 26                 | 5 II  | 30         | 13        | 15                | 010        | 50<br>11              | 23                           | 20                           |                            | 83<br>02                    | 47                        | 29           | н           | н н                    |                               |                            | • 6                    |        | 697   |
|          | Special         | 3         |            |          | :                  |       | •          | •         | I                 | н          | 1                     |                              | н                            |                            | I                           | •                         | •            | :           | н                      |                               | · ·                        | :                      |        | I3    |
|          | Mech.<br>E.     |           |            |          | -                  | · · · | •          | •         |                   | •          | ŝ                     | · · ·                        | •                            |                            | •••••                       | •                         | •            | •           | •                      |                               | •                          | • •                    |        | S     |
|          | E.E.            |           |            |          | 19                 |       | •          |           |                   | •          | •                     |                              |                              |                            | •                           | •                         |              | ••••••      | •                      |                               | •                          |                        |        | 19    |
| Students | C.E.            | 33        | <br>7<br>1 | 31       | 10                 | 21    | 30         | 13        | 14                | 6          | 12                    | 25                           | •<br>•<br>•<br>•             |                            | 32                          | 15                        | 12           | •           | •                      | •<br>•<br>•<br>•              | •                          | •                      |        | 348   |
| St       | Met.<br>E.      | 4         | •          |          |                    |       |            |           |                   |            | •                     |                              | :                            |                            | :                           | I                         |              |             | •                      | •                             | •                          | • •                    |        | s     |
|          | E.M.            | 53        | •          |          | 36                 | 35    |            |           |                   |            | 30                    | • •                          | 54                           |                            | 49                          | 30                        | 1            |             | •                      | •                             | •                          |                        |        | 294   |
|          | A.M.,<br>Ph.D.  |           |            |          | . н                |       |            |           |                   |            | •                     |                              |                              |                            |                             |                           |              | I           | •                      | н                             | I                          | •                      | •      | 4     |
|          | A.B.            | - ·       | н          |          |                    | •     |            |           |                   |            |                       |                              | I                            |                            |                             | Г                         | 1            | •           |                        | •                             | •                          | •                      | •      | 6     |
|          | Hours<br>a Week |           | 0          | 13       | 0 10               | 4     | 4 0<br>102 | л.<br>192 |                   | 43         | N (1                  | 01 F                         |                              |                            | *                           | *                         | 4            | ŧ           |                        | •                             |                            | •                      | •      |       |
|          | Instructor      | Dougherty | Falk       | Lovell   | LovellBurr. Lovell | Falk  | FalkBlack  | Lovell    | E 11-             | Burr, Falk | Burr                  | Burr                         | Lovell                       | ;                          | Lovell, Sum-<br>mer School. | Lovell, Sum-              | Lovell, Sum- | mer School. | Burt                   | Burr                          | Burr                       |                        | Burr   | Total |
|          | Title of Course |           |            | gattom,  | Structures         |       |            | 20        | d Construction of | :          | Foundations, Ist Half | Sewers and Harbors, 2d half. | Theory of Railroad Surveying | Surveying, between 1st and | 2d years                    | Surveying, between 2d and | 3d years     | 4th years   | Foundations (C. E. 11) | Long Span Bridges (C. E. 10). | Elastic and Masonry Arches | Hydraulic Engineering. | Thesis |       |
| -        | No.             | -         | 10         | ŝ        | 4                  | 50    | L0         | 00        | 10                |            | I I                   | 13                           | 14                           | 144                        | >                           | 1 6                       | 17           | -           | 5 5                    | 9 0<br>7 0<br>7 0             | 2 S .                      | 27                     |        |       |

DEPARTMENT OF CIVIL ENGINEERING

REGISTRAR'S REPORT

# DEPARTMENT OF COMPARATIVE LITERATURE

|          | Grand           | Total   | 29  | 99<br>14    | 38                  | 11                       | 9  | 14   | 1<br>5<br>5                               | 269                   |
|----------|-----------------|---------|---|-------------|---------------------|--------------------------|--|--|---|-----------------------|
|          | Audi-           | tors.   | I   |             |                     |                          |  |  |   | н                     |
| Special  |                 | npectal | I   | 13<br>2     | 2                   |                          |  |  |   | 18                    |
| Students | T.C. S          |         | I   |             | I                   |                          |  |  |   | 0                     |
|          | A.M., Ph.D.     | W.      |   |             |                     |                          | 4  | 10   | н <i>ю</i> Ф                              | 4 43                  |
|          | A.M.,           | M.      | 8   |             | F                   | ~                        |  | 4  | 00 m n                                    | 32 2                  |
|          | A P             |         | 24  | 86<br>12    | 34                  | 17                       |  |  |   | [                     |
| Hours    | Week            |         | 3   | <i>ლ ო</i>  | 3                   | 0 F                      |  |  | 6 н н                                     | 0                     |
| -        | Insuractor      |         | Woodberry, Chase.   | Woodberry   | Woodberrv           | Woodberry, Spin-<br>garn | Spingarn   | Chandler                                     | Spingarn.<br>Woodberry<br>Spingarn.       | Chandler  2<br>Total. |
|          | Title of Course |         | Introduction to the Study of Literature Woodberry, Chase. | of Tennyson | Shakespeare to 1660 | Criticism                | Lyric Poetry in Middle Ages and Re-<br>naissance | Elements of Romanticism in 18th Cen-<br>tury |   | Seminar C             |
|          |                 |         | -H.4  | 김 이편이       |                     | 54 H                     | Lyn  | a f  | se la | Se                    |

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COLUMBIA UNIVERSITY

|   |          |                 |   |  | 1      | 1 |                   | <del>.</del> |                 |  |  | 1     |
|---|----------|-----------------|---|--|--------|---|-------------------|--------------|-----------------|--|--|-------|
| Title of Course       Title of Course       Instructor       Lettures teachers the Vanderbilt Clinic on the Diseases of the Skin.       Hours at the Vanderbilt Clinic in Student       Hours at the Vanderbilt Clinic in the Vanderbilt Clinic in the Vanderbilt Clinic in the Diseases of the Skin.       Hours at the Vanderbilt Clinic in the Vanderbilt Clinic in the Vanderbilt Clinic in the Diseases of the Skin.       Hours at the Vanderbilt Clinic in the Vanderbilt Clinic in the Diseases of the Skin.       Hours at the Vanderbilt Clinic in the Diseases of the Skin.       Hours at the Vanderbilt Clinic in the Diseases of the Skin.       Hours at the Vanderbilt Clinic in the Diseases of the Skin.       Hours at the Vanderbilt Clinic in the Diseases of Children   | ents     | Grand<br>Total  | 148   | 148  | 296    |   |                   | dents        | Grand<br>Total  | 148  | 148<br>148<br>148  | 592   |
| Title of Course       Title of Course         Clinical Lectures at the Vanderbilt Clinic on the Diseases of the Skin.       Fo.         Practicical Instruction at the Vanderbilt Clinic in the Diagnosis and Treatment of the Diseases of the Skin.       G.         G.       Diseases of Course       G.         Title of Course       DisPARTMENT OF Diseases       Dispace         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt | Stud     | M.D.            | 148   | 148  | 296    |   |                   | Stu          | M.D.            | 148  | 148<br>148<br>148  | 592   |
| Title of Course       Title of Course         Clinical Lectures at the Vanderbilt Clinic on the Diseases of the Skin.       Fo.         Practicical Instruction at the Vanderbilt Clinic in the Diagnosis and Treatment of the Diseases of the Skin.       G.         G.       Diseases of Course       G.         Title of Course       DisPARTMENT OF Diseases       Dispace         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt | House    | Week            |   | •  | •      |   |                   | Hours        | Week            | I  |  |       |
| Title of Course       Title of Course         Clinical Lectures at the Vanderbilt Clinic on the Diseases of the Skin.       Fo.         Practicical Instruction at the Vanderbilt Clinic in the Diagnosis and Treatment of the Diseases of the Skin.       G.         G.       Diseases of Course       G.         Title of Course       DisPARTMENT OF Diseases       Dispace         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt Clinic in the Diseases of Children       Jac         Practical Instruction at the Vanderbilt | Lectures | each<br>Student |   | IO   | •      |   | DREN              | Lessons      | each<br>Student |  | 0I<br>   |       |
| Title of Cou<br>Clinical Lectures at the Var<br>Diseases of the Skin<br>Practical Instruction at the<br>the Diagnosis and Treatr<br>of the Skin   |          |                 | <b>Fox</b>  | G. T. Jackson  | Total. |   | DISEASES OF CHILD |              | Lastructor      | Jacobi   | Huber<br>Jacobi<br>Holt                                    | Total |
|   |          | litte of Course | Clinical Lectures at the Vanderbilt Clinic on the<br>Diseases of the Skin | the Diagnosis and Treatment of the Diseases<br>of the Skin |        |   | DEPARTMENT OF     | C V          | Artie of Course | Ninical Lectures at the Vanderbilt Clinic upon<br>the Diseases of Children | the Diagnosis and Treatment of the Diseases<br>of Children |       |
|   | ;        |                 | 5 H   |  |        |   |                   |              | °N0'            |  |  |       |

DEPARTMENT OF DERMATOLOGY

# REGISTRAR'S REPORT

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| SCIENCE        |  |
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| ECONOMICS      |  |
| VT OF EC       |  |
| DEPARTMENT     |  |
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|                                    |  |                 | Hours |     |             | Stud  | Students |   |                |   |
|------------------------------------|--|-----------------|-------|-----|-------------|-------|----------|---|----------------|---|
|                                    | Title of Course  | Instructor      | Week  | d v | A.M., Ph.D. | Ph.D. | a 11     | LT B Created                            | Grand          | 1 |
|                                    |  |                 |       |     | M.          | W.    |          | Photos                                  | Total          | _ |
| Outlines of Eco                    | Outlines of Economics, 2d half   | Seligman, Day,  |       | į   | ,           |       | ,        | x                                       |                |   |
| Economic Histo                     | Economic History of England and America.   | ····· Kasshtw   | ς,    | 94  | -           |       | ς,       | >                                       | 104            |   |
| ıst half                           |  | Seligman        | 3     | 24  | 01 1        | н     | 4        | 9                                       | 37             |   |
| Principles of E<br>Dractical Polit | Principles of Economics.   | Gould West      | н 6   | 33  | 14          | . "   |          | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | N 10           |   |
| Science of Finance.                |  | Seligman        | 9 64  | Se  | 34          | · · · |          | 90                                      | 40             |   |
| Fiscal and Ind                     | Fiscal and Industrial History of the United  | Saliaman        | ,     |     | 1           | ,     |          |   | 0              |   |
| Reilroad Problems 2d half          | lems od half.  | Seligman.       | 1 (1  |     | 32          | 0 M   |          |   | 5 C (          |   |
| Economic Theory                    |  | Clark           | 0     | I   | 2 00        | 90    |          |   |                |   |
| Economic Theory II                 | sory II  | Clark           | 0     | н   | 23          | 9     |          |   | 30             |   |
| Communistic                        | Communistic and Socialistic Theories, 1st  | Cleals          | (     | ;   |             | v     |          | ,                                       |                |   |
| Theories of So                     | Theories of Social Reform of half  | Clark           |       | 11  | 12          | 2 4   |          |   | 20<br>20<br>20 |   |
| Seminar Pol.                       | ad half  | Seligman, Clark | 61    |     | 18          | н     |          |   | 61             |   |
| Principles of S                    | Principles of Sociology  |                 | 61    | 18  | 29          | 9     | :        | н                                       | 54             | _ |
| Statisfics, 2d half.               | half   | Giddings        | (1    | :   | 16          | 9     | •••••    | 61                                      | 24             |   |
| Social Evolution, 1st hall         | ion, 1st half  | Giddings        | "     |     | 46          | 6     |          |   | 55             |   |
| Progress and                       | Progress and Democracy, 2d half  | Giddings        | 61    |     | 41          | OI    | :        |   | S, I           |   |
| Pauperism, Po                      | Pauperism, Poor Laws, and Charities, ist half<br>The Civil Assocts of Ecclesiastical Organiza-   | Giddings        | (1    |     | 19          | -     |          |   | 50             |   |
| tions                              | nation of the state of the stat | Bavles          | I     |     | 6           |       |          |   | 61             |   |
| Seminar in Sc                      | Seminar in Sociology   | Giddings        | 6     |     | 29          | 6     |          |   | 38             |   |
|                                    |  | Total           |       | 000 | 00          | C.    | 0        | 6                                       | 202            | 1 |
|                                    |  | T 0.641         | :     | 607 | 409         | 61    | ۷        | N<br>N                                  | 2.             | _ |
|                                    |  |                 |       |     |             |       |          |   |                | ł |

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DEPARTMENT OF ELECTRICAL ENGINEERING

|          |                 |                           |                   |                             |                         |   | _                         | _                         |                 |                                   |                                   |  |         |   |                            |       |
|----------|-----------------|---------------------------|-------------------|-----------------------------|-------------------------|---|---------------------------|---------------------------|-----------------|-----------------------------------|-----------------------------------|--|---------|---|----------------------------|-------|
|          | Grand<br>IstoT  | 47                        | 31<br>84 %        | <b>4</b><br>8<br>8<br>7     | 20                      | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 4                         | 48                        | 28              | 33                                | 23                                | 43                                     | 42      | 27  | 2 S                        | 646   |
|          | Spec.           | •                         | I                 | н                           | H N                     | н                                       | I                         | 61                        | 6               | •                                 | :                                 | I                                      | :       | :   | :                          | 12    |
|          | Mech.<br>E.     | 26                        | 20<br>I           | 26                          |                         | 22                                      | 19                        | 27                        | I               | •                                 | I                                 | 18                                     | 18      | I   |                            | 180   |
|          | E.E.            | 30                        | 5 2<br>5 2        | 19                          |                         | 30                                      | 4                         | 19                        | 24              | 2 I                               | 22                                | 23                                     | 22      | 5<br>21   | 2 S                        | 339   |
| Students | C.E.            |                           | · · ·             | •                           | 17.                     | 30                                      | -                         | :                         | •               | :                                 | :                                 | :                                      | :       | :   | :<br>:<br>:                | 49    |
| Stud     | B.S.<br>Chem.   | :                         |                   | •                           |                         |   |                           | •                         | •               | •                                 | :                                 | :                                      | :       |   | :                          | ŝ     |
|          | Met.<br>E.      | :                         |                   | . (                         | ۍ .                     |   |                           | •                         | :               | • • • •                           | •                                 | :                                      | :       | :   | :                          | 3     |
|          | E.M.            |                           | : :               | • • •                       | یں .<br>                |   |                           |                           | •               | •••••                             | •                                 | •                                      | :       |   | :                          | 36    |
|          | A.M.,<br>Ph.D.  | Ţ                         | 01 M              | 0                           | . I                     |   | 13                        | :                         | I               | I                                 | :                                 | I                                      | 7       | I   | :                          | 17    |
|          | A.B.            | :                         | : :               | · ,                         |                         | 4                                       | r :                       | :                         | •               | •                                 | •<br>•<br>•                       | •                                      | :       | :   | :                          | S     |
| Hours a  | Week            | 3                         | с н               | 3,                          | Зž                      | 1<br>Å                                  | 2 0                       | ı aft.                    | 2 afts.         | 3 afts.                           | 6                                 | 61                                     | 6       | I   |                            |       |
|          | Instructor      | Crocker, Sever.           | Crocker           | Crocker.                    | Crocker.                | Crocker, Towns-<br>end                  | Sever.                    | Sever                     | Sever, Townsend | Townsend                          | Sever                             | Crocker                                | Crocker | Townsend  | •<br>•<br>•<br>•<br>•<br>• | Total |
|          | Title of Course | Dynamo and Motor Practice | Electro-Chemistry | Electric Lighting, 2d half. | Telegraph and Telephone | Elements of Electrical Engineering.     | Electric Railway, 2d half | Direct Current Laboratory | ory             | Electrical Instrument Laboratory. | Dynamo and Motor Design, 2d half. | Management of Elecuncal Flams, 2d half |         | Design of Alternating Current Ma-<br>chinery 1st half | Thesis                     |       |
|          | No.             | I                         | 0 0               | 41                          | so                      | 2                                       | ~                         | OI                        | II              | I 2                               | 1 S                               | N<br>N                                 | 23      | 25  |                            |       |

REGISTRAR'S REPORT

# DEPARTMENT OF ENGLISH

|          | Grand           | Total   | 120                                   |                                   | 130<br>61       | 42                   | 53<br>62   | 11  | 10       | 12       | 12         | 2          | 16                                    | 20                                      | 74                  | 30             | 32                                      | , L      | ר<br>י   | 4     | 20                  |                           | Ś                               | 6     | 58                             | 783   |
|----------|-----------------|---------|---------------------------------------|-----------------------------------|-----------------|----------------------|------------|---|----------|----------|------------|------------|---------------------------------------|---|---------------------|----------------|---|----------|----------|-------|---------------------|---------------------------|---------------------------------|-------|--------------------------------|-------|
|          | PA              |         | :                                     |                                   | : :             | : -                  | • :        | :   | :        | ÷        | :          | :          | :                                     | :                                       |                     | :              | :                                       |          |          | :     | •                   |                           | :                               | :     | 01                             | II    |
|          | ial             | Ψ.      | :                                     |                                   | : :             | : -                  | • :        | :   | :        | ÷        |            | :          | :                                     | :                                       |                     | :              |   |          |          | :     |                     |                           | :                               | :     | :                              | I     |
|          | Special         | M.      | 12                                    |                                   | 0.0             | ŝ                    |            | н   | I        | H        | I          | :          | :                                     | 2                                       | Io                  | ы              | I                                       |          |          | :     |                     |                           | H                               | :     | ÷                              | 54    |
|          | LT.B            | 0.1     | :                                     |                                   | : :             | :                    |            |   | :        | I        | :          | :          | :                                     | :                                       |                     | :              | :                                       |          |          | :     |                     |                           | :                               | :     | :                              | 0     |
| Students |                 | W.      | :                                     |                                   | ::              |                      |            |   | :        | :        |            | :          | :                                     | :                                       | :                   | :              |   |          |          | :     |                     |                           | :                               | :     | н                              | 3     |
| Sti      | T. C.           | M.      | :                                     |                                   | : :             | :                    | : :        |   | :        | :        |            |            | :                                     |   |                     |                |   |          |          | :     |                     |                           | :                               | :     | I                              | H     |
|          | h.D.            | W.      | :                                     |                                   | <br>••          | ،                    | · · ·      |   | :        | :        | v          | 04.        | . 0                                   |   |                     | :              |   | c        | <u>د</u> | н     |                     |                           | :                               | ŝ     | 30                             | 88    |
|          | A.M., Ph.D      | M.      | :                                     |                                   |                 | . 6 5                | ງ.<br>     |   | :        | 1        | ~          | , m        | 4                                     | I                                       |                     | н              | :                                       | ý        | >        | 3     | 20                  | <br>                      | 4                               | 9     | 15                             | 95    |
|          |                 | M.      |                                       | <u> </u>                          | ::              | :                    | : :        |   | :        | ÷        | :          |            | I                                     | :                                       |                     | :              |   |          | :        | :     |                     |                           | :                               | :     | :                              | н     |
|          | A.B.            | M.      | . 801                                 |                                   | 121<br>48       | 30                   | 52 .       | 01  | 6        | 6        | ~          | <u>, ;</u> | s                                     | 15.                                     | 2<br>8<br>2         | 27             | 31                                      | <u>,</u> |          | :     |                     |                           | :                               | :     | н                              | 527   |
| e        | Veek            | M<br>PH | 3                                     |                                   | н<br>с, с,      |                      | N (1       | "   | , w      | ŝ        | ~          | ว ต        | 7                                     | 61                                      | 6                   | ~              | ~                                       | ) (      | <br>1    |       | 6                   |                           | <u>е</u>                        |       | 0                              |       |
|          | Instructor      |         | Odell, Brewster,                      | G. R. Carpenter,<br>Odell, Hamil- | G R. Carpenter. | G. R. Carpenter.     | Lewis      | Ringwalt                                  | Brewster | Ringwalt | Krapp      | Krapp.     | Price                                 | Price.                                  | Brander<br>Matthews | Odel1          | Brander<br>Matthews                     | Drice    |          | Price | Brander<br>Matthews | Brander                   | Matthews                        | Trent | Trent                          | Total |
|          | Title of Course |         | Rhetoric and English Composi-<br>tion | English Composition               |                 | English Composition. | Elocution. | Theory and Practice of Public<br>Speaking | osition  |          | Siter real | 1re        | · · · · · · · · · · · · · · · · · · · | ••••••••••••••••••••••••••••••••••••••• | American Literature | English Poetry | The Development of the English<br>Drama |          | His-     | tax   | Epochs of the Drama | Molière and Modern Comedy | English Literature from 1660 to | 1745. | Half of the Nineteenth Century |       |
|          | No.             |         | A                                     | В                                 | н               | 0 0                  | n 4        | 6   | ~        | 61       | -<br>-     | 16         | 17                                    | 19                                      | 21                  | 23             | <sup>2</sup> 5                          | 32       | 33       |       | 40                  | 42                        | 47                              | -     | 4<br>V                         |       |

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DEPARTMENT OF GENITO-URINARY AND VENEREAL DISEASES

| Title of CourseInstructorLessonsHoursWenereal and Genito-Urinary DiseasesTaylorInstructorInstructorVenereal and Genito-Urinary DiseasesTaylorIooIooHospital Clinics in Venereal and Genito-Urinary DiseasesTaylorIooIooHospital Clinics in Venereal and Genito-Urinary DiseasesTaylorIooIooAnstructionIooIooIooIooHospital Clinics in Venereal and Genito-Urinary DiseasesTaylorIooIooCasesTotalTotalIooIoo |
|---|
| Instructor<br>Taylor  |
| Instructor<br>Taylor<br>Taylor<br>Total   |
| Title of Course<br>Venereal and Genito-Urinary Diseases<br>Practical Instruction in the Diagnosis and Treatment<br>of Venereal and Genito-Urinary Diseases<br>Hospital Clinics in Venereal and Genito-Urinary Dis-<br>cases   |
|   |

DEPARTMENT OF GEOLOGY

|          | Grand<br>Total                   | 44<br>66<br>66<br>67<br>6<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   | 204         |
|----------|----------------------------------|--|-------------|
|          | Special                          | 66 66  | 12          |
|          | C. E.                            | 21<br>21   | 22          |
| Students | E.M. Met. E. C. E. Special Grand | · · · · · · · · · · · · · · · · · · ·  | 6           |
| Stud     | E.M.                             | 38<br>37<br>37<br>1  | 121         |
|          | A.M., Ph.D.<br>M. W.             | ннннн  | 2           |
|          | A.M.,<br>M.                      | та со со н<br>н в со со н  | 16          |
|          | A.B.                             | 13<br>2<br>1<br>1  | 11          |
| Hours    | Wcek                             | 33333333333333333333333333333333333333   | • • • • •   |
|          | Instructor                       | Grabau<br>Kemp<br>Kemp<br>Kemp<br>Kemp<br>Kemp<br>Hollick<br>Grabau<br>Grabau<br>Grabau  | Total 17 16 |
|          | Title of Course                  | General Geology<br>General Geology<br>Economic Geology<br>Petrography, 2 months, 2d half<br>Petrology<br>Invertebrate Palæontology<br>Invertebrate Geology<br>Comparantive Geology<br>Palæobotany<br>Geological Examinations and<br>Surveys<br>Phylogeny of Invert. Fossils<br>Fossil Faunas<br>Stratigraphy |             |
|          | No.                              | и<br>100<br>100<br>100<br>17<br>17<br>17   |             |

# REGISTRAR'S REPORT

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# DEPARTMENT OF GERMANIC LANGUAGES

|          | Grand           |         | 57                        | 2              | 63             | 27                    | 33   |                  | 28                        | 13              | 24                               | e<br>F                     | 11              | 6                    | • •    | N                | ĽΙ                                      | y x                | 30                       | II                            | 372   |
|----------|-----------------|---------|---------------------------|----------------|----------------|-----------------------|--|------------------|---------------------------|-----------------|----------------------------------|----------------------------|-----------------|----------------------|--------|------------------|---|--------------------|--------------------------|-------------------------------|-------|
|          | Aud.            |         | :                         | :              | ÷              | I                     | ÷  | :                | :                         | ÷               | ÷                                |                            | : :             | :                    | :      | :                | I                                       | :                  | :                        | :                             | 5     |
|          | Spec. Aud.      |         | 3                         | :              | 4              | I                     | н  | I                | :                         | :               | 7                                |                            | : :             | :                    | :      | :                | :                                       | : ;                | ŝ                        | :                             | I5    |
|          | B S             | _       | ŗ                         | :              | :              | :                     | :  | :                | :                         | :               | :                                |                            |                 | :                    | :      | :                | :                                       | :                  | ÷                        | :                             | I     |
|          |                 | E.E.    | I                         | :              | :              | ÷                     | :  | :                | :                         | :               | :                                |                            | : :             | :                    | :      | :                | :                                       | :                  | :                        | :                             | н     |
| S        |                 | Chem. H | :                         | :              |                |                       | :  | •<br>:           |                           | :               | :                                |                            | : :             | :                    | :      | :                | :                                       | :                  | :                        | :                             | 6     |
| Students |                 |         | :                         | :              |                | :                     | :  | :                |                           | :               |                                  |                            |                 |                      | :<br>  | :                | <u>.</u>                                | <u>.</u>           | ÷                        |                               | <br>  |
| Stu      | *               | E.M.    | H                         | ÷              | ÷              | ÷                     | :  | ÷                | :                         | :               | :                                |                            |                 |                      | :      | :                | :                                       | :                  | :                        | :                             | н     |
|          | *               | LL.B.   | I                         | :              | I              | :                     | :  | :                | :                         | :               | :                                |                            | :               |                      | :      | :                | :                                       | :                  | :                        | :                             | 10    |
|          |                 | N.      | н                         | :              | I              | :                     | :  | :                | 8                         | Ś               | 61                               | ,                          | 0 0             | , m                  | 3      | 61               | 8                                       | H                  | :                        | 3                             | 43    |
|          | A.M., Ph.D.     | W.      | ~                         |                | 3              | 4                     | . 1  |                  | 3                         | :               | ~                                | ,                          | 4 0             | <br>                 | 3      | :                | 3                                       | 4                  | :                        | 8                             | SI    |
|          |                 | W.      | :                         | :              | :              | :                     | :  | :                | :                         |                 | :                                |                            | :               |                      | :      |                  | 3                                       | :                  | ÷                        |                               | 0     |
|          | A.B.            |         |                           |                |                | ·                     | •  | <u>.</u>         | <u>.</u>                  | •               |                                  |                            | •               | · ·                  |        | •<br>:           | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                    |                          |                               | 251   |
| _        |                 | м.      | 46                        | . 4            | 52             | 21                    | 31   |                  | 6                         | ~~~             | 17                               |                            |                 |                      | :      | :                |   |                    | 3                        | :                             | 1     |
| яээM     | esu             | ۱oH     | ~                         | 90             | 3              | 3                     | 3  | 3                | 0                         | 0               | 6                                |                            | 0 0             |                      | 8      | 6                | 61                                      | 10                 | ~                        | :                             | Total |
|          |                 |         | abo,                      | ler.           | oler.          | :                     | :  | -                | :                         | :               |                                  |                            | W. H. Carpenter | enter                | :      | Bagster-Collins  | Thomas                                  | W. H. Carpenter    | Hervey                   | . H. Carpen-<br>ter, Thomas.  | lotal |
|          | ctor            |         | lervey, Tombo<br>Keppler  | epp            | Cept           | :                     | :  | ÷                |                           | :               |                                  |                            | arpe            | arpe                 |        | Col              | :                                       | arp                | ' :<br>.,                | hom                           | 5     |
|          | Instructor      |         | ey,<br>oble               | y, K           | y, K           | ey.                   | ey.  | b0.              | nas                       | nas.            | po.                              |                            | I.C             | I.C                  | <br>   | ster             | nas                                     | I. C               | vey.                     | с<br>Т                        |       |
|          | In              |         | Hervey, Tombo,<br>Keppler | Remy, Keppler. | Remy, Keppler. | Hervey                | Hervey   | Tombo.           | Thomas.                   | Thomas.         | Tombo                            |                            | W. H. Carp      | W. H. Carpenter      | Remy   | Bage             | Tho                                     | W.F                | Her                      | W. H. Carpen-<br>ter, Thomas. |       |
|          | Title of Course |         | Elementary Course         |                |                | Schiller, and Lessing | Selected Works of Goethe,<br>Schiller, and Lessing | Historical Prose | History of German Litera- | Goethe's Faust. | Practice in Speaking and Writing | History of the German Lan- | guage.          | Ureau Gennan Willers | Gothic | Teachers' Course | Geschichte der deutsch. Litt.           | Middle High German | Grammar and Composition. | German Seminar                |       |
|          | No.             |         | A                         |                |                | 3a                    | 3b   | 4                | 0                         | 7               | -00                              | 0                          | `               | 10a                  | 17     | 19               | 50                                      | 21                 | 22                       |                               |       |
| 1        | ~               |         | 1                         |                |                |                       |  |                  |                           |                 |                                  |                            |                 |                      | _      |                  |   |                    |                          |                               |       |

\* Not required for the degrees indicated.

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|           | Grand            | Total | ∞                  | 4 I<br>2   | >  | 15           | · 4                     | ~~~  | ) I I                             | 2                           | . 6                 | 6                          | 15                               | 4               | 4                              | 0                                       |   | I S I |
|-----------|------------------|-------|--------------------|--|--|--------------|-------------------------|--|-----------------------------------|-----------------------------|---------------------|----------------------------|----------------------------------|-----------------|--------------------------------|---|---|-------|
|           | G                | Ĕ     |                    |  |  |              |                         |  |                                   |                             |                     |                            |                                  |                 |                                |   |   | H     |
|           | Special          | W.    |                    |  | •  |              | :                       |  |                                   | •                           |                     | •                          | I                                | :               |                                |   |   | I     |
| Students  | Spe              | M.    | 5                  | I  | •  |              | •                       |  |                                   |                             | •                   | •••••                      | ••••••                           | ••••••          | •                              | •                                       |   | 3     |
| Stud      | A.M., Ph.D.      | W.    | •                  | •  | •  | •            | •                       |  | 4                                 |                             | •                   | 4                          | 8                                | I               | I                              | 3                                       |   | 24    |
|           | A.M.,            | M.    |                    |  |  | I            | :                       |  | 4                                 | 4                           | I                   | 4                          | S                                | 3               | ~                              |   |   | 32    |
|           | D<br>V           | .a.v  | 6                  | 40   | >  | 14           | 4                       | ×  | ) (*                              |                             | 8                   | I                          | I                                | •               | •                              | ••••••••••••••••••••••••••••••••••••••• |   | 91    |
| Hours     | a<br>Week        |       | ŝ                  | 5  | N  | 3            | 0                       | 6  | 20                                | 2                           | 0                   | 5                          | 5                                | 0               | I                              | 3                                       |   | •     |
| T         | Instructor       |       | Rogers             | Young, Rogers  | TURN STATES                                | Young, Perry | Wheeler                 | Anu-<br>Perry Voung  | Wheeler.                          | Perry.                      | Young               | Perry, Wheeler             | Young                            | Wheeler         | Perry.                         |   |   | Total |
| Q g145,44 | little of Course |       | Elementary Course. | Selected Orations of Lysias, Homer's Odyssey   Young, Rogers.<br>Flamouts of Greek Archmolom | Euripides's Medea, Sophocles' Philoctetes, | Plato        | Rapid Reading of Homer. | et scriyius Prometneus, soprocies Anu-<br>gones Thucydides | Advanced Greek Prose Composition. | The Lyric and Bucolic Poets | New Testament Greek | Thucydides and Demosthenes | Introduction to Greek Archæology | Greek Epigraphy | Methods of Classical Philology | Greek Seminar                           |   |       |
| -         | No.              |       | A                  |  | - 67                                       | )            | 44                      | 0  | 2                                 | 12                          | 14                  | 16                         | 18                               | 21              | 24                             |   | - |       |

| Grand<br>Total  |  | 641                                     | 190  | 250  |   | 641   | ۰.                                      | +867  |
|-----------------|--|---|--|--|---|---|---|---|
| M.D.            |  | 641                                     | 061  | 250  |   | 64 I  | ۵.                                      | +861  |
| Hours a<br>Week |  | ŝ                                       | :  | I  |   | :   | 3                                       | •   |
| each<br>Student |  | ••••••••••••••••••••••••••••••••••••••• | ø  | :  |   | OI  | :<br>:<br>:<br>:                        | •   |
| Instructor      |  | Tuttle                                  | Whiting  | Tuttle   |   | Jarman and Stone                                  | Tuttle                                  | Total   |
| Title of Course | e Principles and Practice of Gynecology (Mar | May)                                    | Recitations and Demonstrations   | inical Instruction at the Vanderbilt Clinic                    | Practical Instruction in Diagnosis, Treatment, and  | the Use of Instruments                            | ospital Clinics in Operative Gynecology |   |
|                 | Th   | -                                       | R  | U  | d,  |   | H                                       |   |
|                 | Instructor each Hours A M.D.                 | Gynecology (Mar                         | Instructor     each<br>Student     Hours a<br>Week     M.D.       Tuttle     3     179 | Instructoreach<br>StudentHours a<br>WeekM.D.Tuttle3179Whiting8 | Instructor         each<br>Student         Hours a<br>Week         M.D.           Tuttle         3         179           Whiting         8         190           Tuttle         1         250 | ructor student Week M.D.<br>Student Week M.D.<br> | ructor student Week M.D.<br>            | ructor student Week M.D.<br>Student Week M.D.<br>33 179<br>190<br>190<br>nd Stone 10<br>33 179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br>179<br> |

DEPARTMENT OF GYNECOLOGY

COLUMBIA UNIVERSITY

|  |          | Grand           | 1910 1  |   | 137                                      | 10   | •  | 48   | 16                       | ×                                      | 35                                    | 9 61                 | тS     | 61                   | -  | 6                               | 38  | 175  | 25                         | 14   | 24             | 29<br>1  |
|--|----------|-----------------|---------|---|--|--|--|--|--------------------------|--|---------------------------------------|----------------------|--------|----------------------|--|---------------------------------|---|--|----------------------------|--|----------------|----------|
|  |          | LI. B Snerial   | npoctat |   | 12                                       | 4 H F  | 4  | 6  |                          | •                                      | •                                     | •                    | •      | •<br>•<br>•          | •  |                                 | ŝ   | 3  | -<br>-<br>-<br>-<br>-<br>- | •<br>•<br>•<br>•                           | •              |          |
|  | Students | I.I.B           |         |   | •  |  |  | •  | •                        | •                                      | •                                     | •                    | •      | •                    | •<br>•<br>•                                | •                               | •<br>•<br>•                                 | IOI  | •                          | •<br>•<br>•                                | 61             |          |
| Υ  | Stud     | A.M., Ph.D.     | ω.      |   | Т  |  |  | •  | 2                        | 61                                     | IS                                    | щ                    | 4      | S                    | •  | 4                               | •   | 61   | οī                         | ×  | 4 (            | ۍ        |
| HdOS   |          | A.M.,           | М.      |   |  |  |  | •  | 00                       | 0                                      | 12                                    | I                    | II     | 14<br>1              | -  | S                               | 21  | 34   | 15                         | 0  | 18             | 400 н    |
| OHILO  |          | A.B.            |         |   | 124                                      | 1<br>N<br>N  | 2  | 39   | I                        |  | 80                                    | •                    | •      | •                    | •  | •                               | 14  | 35   | •                          | •  | :              | 31       |
| CAL  |          | Hours<br>Week   |         |   | 50                                       | n m u  | 2  | 3  | 61                       | N                                      | 0                                     | 61                   | 0 0    | 2 10                 | 1  | 61                              | N   | 5  | 10                         | [1]  | - 5            | н 67 н   |
| RY AND POLITI                                  |          | Instructor      |         |   | Shepherd, Shotwell<br>Shepherd, Shotwell | Dunning, Shepherd<br>Shepherd, Smith                                     |  | Dunning, Smith                             | Osgood, Cushing          | would be used on the second            | Robinson.                             | Kobinson             | Sloane | Sloane               |  | Robinson                        |   | Burgess  | Osgood                     | 0100116                                    | Dunning        | Dunning. |
| DEPARTMENT OF HISTORY AND POLITICAL PHILOSOPHY |          | Title of Course |         | Epochs of Ancient, Mediæval, and Modern | History<br>Continental European History  | Continental European History<br>English History to the Reform Bill, 1832 | History of the United States to Close of Re- | History of Great Britain during Eighteenth | and Nineteenth Centuries | Development of European Culture during | the Later Middle Ages and Renaissance | Rediæval Insurutions |        | The Work of Napoleon | Seminar in Later Mediæval and Modern Euro- | Transitions in American History | Political and Constitutional History of the | United States<br>American Colonial History during the 17th | Century                    | The United States during the Civil War and | Keconstruction |          |
|  |          | No.             |         | A                                       | I  | 0 N  | 4  | 9  | 0<br>I                   | 11                                     |                                       | 12                   | 14b    | 15                   | 18   | 30                              | 31  | 32   | 24                         | 35   | 37             | 40       |

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Total.....

DEDAPTMENT OF LICTORY AND BOLITICAL BUILDE

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| DEPARTMENT OF INDO-IRANIAN LANGUAGES |  |
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|          | Grand           | Total   | ŝ        | H       | 4         | H                | 9                   | ~              | 9 (1                     | I        | ŝ                                       | 26    |
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|          | Sneedal Grand   | -       |          | ••••••  |           |                  |                     | Ţ              |                          |          |   | <br>I |
| Students | A.M., Ph.D.     | Ψ.      | I        |         |           |                  |                     | I              |                          |          | 6                                       | 4     |
| 0,       | A.M.,           | M.      | I        | •••••   | 3         | I                | 9                   | I              | 6                        | I        | 3                                       | 17    |
| 1        | A B.            | 1.71.12 | I        | I       | I         |                  | ••••••              |                |                          | •••••    | н                                       | 4     |
| Hours    | Week            |         | 3        | 61      | 0         | 61               | I                   | 7              | 6                        | I        | 61                                      |       |
|          | Instructor      |         |          | Jackson | Jackson   | Jackson          |                     | Yohannan       | Yohannan                 | Jackson  | Jackson                                 | Total |
|          | 11the of Course |         | Sanskrit | Avestan | Sanskrit. | Advanced Avestan | Sanskrit Literature | Modern Persian | Modern Persian, Advanced | Seminar. | Introduction to the Science of Language |       |
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| nts      | Grand<br>Total  | 148                                      | 148<br>148   | 444    |
|----------|-----------------|--|--|--------|
| Students | M.D.            | 148                                      | 148<br>148   | 444    |
| Hours    | Week            |  | · · · · · · · · · · · · · · · · · · ·  |        |
| Lessons  | each<br>Student |  | ٥ م.<br>۲  |        |
|          | Instructor      | Lefferts.                                | Simpson<br>Frothingham   | Total. |
|          | Title of Course | A Systematic Course of Didactic Lectures | Laryngoscope, Rhinoscope, and Tongue Spatula. Simpson.<br>Individual Clinical Demonstration Frothinghe |        |
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|----------|-----------------|-------|--|---|----------------------|----------|---------|---------|-----------------|----------------|---------------------------------|---------------------------|---------|--|---------------|---|--|--------------------|----------------------|--------------|-------|
|          | Grand           | Total | 78   | 28  | 15                   | 18       | 37      | I2      | 6               | S              | 21                              | 40                        | 1 0     | 12.0   | 3             | 3   | (  | <u>, U</u>         | 4 (                  | 6            | 332   |
|          | Chec            | nhee. | I  | •   | 6 4                  | ÷н       | 8       | • •     | •               | ••••••         | I                               | •                         | •       | · · ·  | •             |   | •  |                    | •••••                | •            | II    |
| Students | Ph.D.           | W.    |  |   |                      |          | •••••   | · ·     | S               | 3              | • • • • • •                     | н,                        | n<br>na | ) x)   | 0             | 0   | (  | Ś                  |                      | 4            | 52    |
| 0,       | A.M., Ph.D.     | M.    | :  | :   |                      |          | •       | . 0     | 4               |                | •                               | 3                         | i i     | 04   | •             | I   |  | . ,                |                      | S            | 36    |
|          | р<br>v          |       | 77   | 28  | 13                   | 17       | 35      | o I     |                 | 6              | 20                              | *                         | 4 0     | ۰<br>۱   | I             |   |  | •                  | •                    | •            | 233   |
|          | Hours<br>a Week |       | 3  | ŝ   | in u                 |          | 00      | n u     | 3               | 6              | 6                               | 0                         | 0 0     | 4 (4   | 3             | 0   |  | 01 0               | 01 1                 | 4            |       |
|          | Instructor      |       | Egbert, McCrea   | Peck  | Olcott.<br>Olcott    | Olcott   | McCrea. | McCrea  | Egbert          | Peck           | McCrea.                         | Egbert                    | McCrea  | Peck   | Knapp         | Olcott  | 010044                                       | Dicuti             | Dool- Bot out        | reck, Egueru | Total |
|          | Title of Course |       | Cicero.<br>Reading of Selections in Prose and Wree Illustra- | tive of the Public and Private Life of the Romans Peck. | Elementary Course I. | Tacitus. | Horace  | Terence | Roman Epigraphy | Rapid Reading. | The private Life of the Romans. | Roman Epigraphy, Advanced | •       | Lectures on the History of Classical Philology | Roman Tragedy | The Topography and Monuments of Ancient Rome. | The Topography and Monuments of Ancient Rome | (Internationation) | Lauli V Ci Sulcaulou |              |       |
|          | No.             |       | AA   | a ;   | X>                   |          | 0 0     | 04      | Ś               | 0              |                                 |                           | 0 0     | 1 00   | 29            | 32  | 33   |                    | ۍ<br>4               | -            |       |

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DEPARTMENT OF MATERIA MEDICA AND THERAPEUTICS

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| I management |                 |            |  |                       |                           |                                    |                              |                     |             |                        |                               |        |                  |   |                 |
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|              | l               | Gra<br>Tot |  | OII                   | 18 I                      | 206                                | )<br>)<br>1                  | 211                 | 154         | 3                      | 0                             | 7      | ωv               | r | 6 749           |
|              |                 | Spec.      |  | 4                     | · · ·                     |                                    | •                            | · ,_<br>·           | 4           | :                      |                               | :      |                  |   |                 |
|              | •प्ः            | EWed       |  | :                     |                           | 20                                 | с<br>У                       | 35                  | 29          |                        | •<br>•<br>•                   | •      |                  |   | 103             |
|              |                 | ਸ਼<br>ਸ਼   |  | :                     |                           | Ţ                                  | i<br>t                       | 40                  | 34          | :                      |                               | •      | •                |   | IIS             |
| 10           |                 | C.E.       |  | •                     | • •                       | 3 Ľ                                | с<br>С                       | 37                  | 25.         | •                      | •                             | •      | • •              |   | 97              |
| Students     |                 | Che<br>B.S |  | :                     |                           | 12                                 | 1                            | 14                  | . 6         | н                      | :                             | :      |                  |   | 36              |
| St           | Met.            | <u>ы</u>   |  | :                     |                           | П                                  | 1                            | 0                   | . н         | •                      | •                             |        |                  |   | 4 36 97 II5 I03 |
|              |                 | E.M.       |  | •                     |                           | 7                                  | ,<br>,                       | 04                  | 44          | :                      | :                             | :      | : :              |   | 165             |
|              |                 | W.         |  | :                     |                           |                                    |                              | :                   |             | :                      | :                             | н      | 0 0              |   | 5 I65           |
|              | A.M., Ph.D.     | M.         | 1  |                       |                           |                                    |                              |                     | м           | :                      |                               | 9      | 1 6              | > |                 |
|              |                 | A.B.       |  | 106                   | I S I                     | 21                                 |                              | 0 x                 | 0 1         | 0                      | I                             | :      |                  | - | 206             |
| সুহ          | our<br>Wee      |            |  | ~ ~ ~                 | <i>ა</i> ო                | v                                  | י כ                          | ۰، در               | <b>ა</b> ო  | 3                      | 3                             | ŝ      | 3                | > | •               |
|              | Instructor      |            | Maclay, Keyser,                          | Mitchell, Ling.       | Fiske                     | Maclay, Keyser,<br>Mitchell, Ling. | Maclay, Keyser,              | Van Amringe.        | Van Amringe | Mitchell               | riske                         | Maclay | cole             |   | Total 206 12    |
|              | Title of Course |            | Geometry, Algebra, and Trigo-<br>nometry | Trianomotors set half | Advanced Algebra, 2d half | Trigonometry, Algebra, 1st half.   | Analytical Geometry, 2d half | Analytical Geometry | Calculus    | Differential Equations | Theory of Functions of a Com- |        | Theory of Groups |   |                 |
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DEPARTMENT OF MATHEMATICS

|  |                |                                | भूर<br>१९ इ  |        |                   |            |            | Students      | ents |      |                   |            | 1              |
|--|----------------|--------------------------------|--------------|--------|-------------------|------------|------------|---------------|------|------|-------------------|------------|----------------|
| Title of Course                                | Ч              | Instructor                     | moH<br>Wee   | A.B.   | Р. М. А.<br>М. А. | E.M.       | Met.<br>E. | Chem.<br>B.S. | C.E. | E.E. | Щ <sup>еср.</sup> | Spec.      | Grand<br>IstoT |
| Mechanical Drawing                             | Ma             | Mayer, Miller<br>Mayer Miller. | 4 4<br>1%1   | 100    |                   | 85         | 20 6       | 12            | 5.8  | 73   | 60<br>26          | <b>ю</b> н | 314            |
| Work   |                | Weick.                         | ñ.           | 9      |                   |            | · :        |               | 37   | 40   | 30                | н          | I 2 2          |
| Shop Work, Summer Work                         | > P            | Weick.                         | o *          | -<br>- |                   | : :        | : :        | : :           | 57   | 04 . | 32                |            | 32             |
| Work, 1st half.                                | -<br>M         | Sleffel                        | 9            | н      | :                 | ÷          | :          | :             | 500  | 31   | 27                | :          | 200            |
| Shop Work, 2d half Be<br>Shop Work Summer Work | йř             | BennsBenns                     | 0*           |        | : :               | : :        |            | : :           | 20.  | 32   | 6 7<br>10 7       |            | 80<br>26       |
| Work, 1st half.                                | ğ              | Benns.                         | 4            |        |                   |            |            |               |      |      | 28                |            | 28             |
| ·<br>·<br>·                                    | Μo             | Noolson                        | 0            | н      | :                 | :          | :          | :             | :    | 45   | 52                | I          | 66             |
| r Plants                                       | Hui            | Hutton                         | н            | :      | :                 | 36         | :          | 14            | 53   | 33   | 24                | н          | 131            |
|  | пн             | Hutton                         | 01 0         | :      | :                 | и и<br>И н | нн         | ທາ            | x c  | 0 0  | 1 1               |            |                |
| Mechanical Engineering Laboratory              | Per            | Pendleton,                     | а н          |        | ::                |            | - :        | ړ .           | . ب  |      | 51                | - :        | 27             |
| Laboratory  C                                  | Cat            | Cathcart, Pen-                 | •            |        |                   |            |            |               |      |      | t                 |            | t              |
| Testing Laboratory                             | <sup>a</sup> Å | Woolson                        | 1<br>\$<br>4 | : :    | : :               |            | . 9        | : :           |      | ::   | 27                | ::         | 29             |
| ring Laboratory                                | Cat            | Cathcart, Pen-                 | Pec          |        |                   |            | 1          |               |      | 2    | 47                |            | 14             |
| Machinery and Mechanism                        | MoW            | Woolson                        | 2            |        |                   |            |            |               | 6    | 41   | 58-               |            | 18             |
| Heat and Heat Engines, 1st half Hut            | Hut            | Hutton                         | 3            | :      | нн                | 22         |            | :             | 12   | 24   | 0 5               | :          | 81             |
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DEPARTMENT OF MECHANICAL ENGINEERING

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|----------|----------------|-------------------------------------|-----------------------------|----------|----------------------------------|-------------|----------|---------|-------------------------------------|------------------------|----------|------------------------------------|--------|------------------------------|----------|--|
| н        | I              | 10                                  |                             | ••••••   |                                  | 61          | •        | • • • • |                                     | •                      | H        |                                    | :      | •••••                        | •        | пS                                       |
| 31       | 17             | 10                                  | `                           | :        |                                  | 18          | 2 I      | 28      |                                     | •                      | 31       | 1                                  | 18     | ıς                           | 2 I      | 867                                      |
| :        | :              | :                                   |                             | :        |                                  |             | •        | •       |                                     | •                      | :        |                                    |        | •                            |          | ŞII                                      |
| :        | :              | •                                   |                             | 12       |                                  | •<br>•<br>• | •        | •       |                                     | •                      | :        |                                    | :      | •                            | •        | 305                                      |
| •        | •              |                                     |                             | :        |                                  | •           | •        | •       |                                     | •                      | •        |                                    | :      | •                            | •        | 36                                       |
| 3        | •              | •                                   |                             | :        |                                  | •           | •        | •       |                                     | •                      | 3        |                                    | :      | ·<br>·                       | :        | 20                                       |
| •        | •              |                                     |                             | :        |                                  | •           | •        | •       |                                     | :                      | •        |                                    | :      | •                            | •        | 239                                      |
| :        | •              |                                     |                             | :        |                                  | •           | •        | •       |                                     | I                      |          |                                    | :      | •                            | :        | 4  |
| •••••    | •              |                                     |                             | :        |                                  |             | :        | :       |                                     | •                      | •        |                                    | :      | :                            | :        | 35                                       |
| S        | ν.             | Res.                                |                             | 3        | t                                | ŝ           | I        | 1       |                                     | Res.                   | ŝ        |                                    | 3      | 0                            | •        | •  |
| Cathcart | Cathcart       |                                     |                             | Woolson  |                                  | Cathcart    | Hutton   | Hutton  |                                     | •                      | Cathcart |                                    | Hutton | Hutton                       | •••••••• | Total 35 4 239 20 36 305 511 867 15 2032 |
|          | Valve Gearing. | theat and Steam Engineering Laboua- | Railway Motive Power and Ma | Ist hålf | Steam Engine Design and Advanced | Drawing     | nization |         | Original Investigations in Advanced | Mechanical Engineering |          | Locomotive Engineering and Design, |        | 41-48 Locomotive Engineering | Thesis   |  |
| 2        | 3              | 4                                   | 26                          |          | 30                               |             | 2.0      | 0       | 0                                   |                        | H        | 4.3                                | >      | 48                           | -        | 1  |

\* 6 weeks.

| No.Title of CourseInstructor $\frac{1}{100} \frac{1}{100} 1$ |              |                 |   |       |
|--|--------------|-----------------|---|-------|
| Title of CourseInstructor $\frac{1}{100}$<br>$\frac{1}{100}$ A.B. $\frac{A.M. Ph.D}{W}$ E.M.StudentsAnalytical Mechanics.Woodward $\frac{1}{200}$ $\frac{1}$   |              | Grand<br>Total  | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 307   |
| Title of CourseInstructor $M_{00}^{00}$ $M_{01}$ <  |              | E.<br>Mech.     | о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о<br>о   | 48    |
| Title of CourseInstructor $\frac{\mu_{0}}{\mu_{0}} \frac{\mu_{0}}{\mu_{0}}$ $A.M. Ph.D.$ $B.M. Met. \frac{\mu_{0}}{R}B.M. Met. \frac{\mu_{0}}{R}\frac{\mu_{0}}{R}\frac{\mu_{0}}{R}\frac{\mu_{0}}{R}\frac{\mu_{0}}{R}\frac{\mu_{0}}{R}Theory of Dynamo and MotorPupin\frac{2}{R}$  |              |                 | н н со  | 134   |
| Title of CourseInstructorInstructor $\frac{1}{10}$  |              | C.E.            | лини и и и и и и и и и и и и и и и и и и  | 31    |
| Title of CourseInstructor $\frac{1}{100} \frac{1}{100} \frac{1}{100}$ $A.M., Ph.D.$ $B.M.$ Analytical Mechanics.Moodward3 $A.B.$ $\overline{M.}$ $\overline{W.}$ $\overline{M.}$ Analytical Mechanics.Prister24 $2$ 28Theoretical Mechanics.Prister24 $2$ 28Theory of Dynamo and Motor.Pripin, Towns-3111Theory of Dynamo and Motor.Pupin.3111Theory of Dynamo and Motor.Pupin.2311Theory of Dynamo and Motor.Pupin.3111Theory of Dynamo and Motor.Pupin.2311Theory of Dynamo and Motor.Pupin.2311Theory of Internators and Transform-Pupin.2311Theory of Variable Currents, 2d half.Pupin.2311Theory of the Conduction of Heat in<br>Solids.Woodward2511Solids.Pupin.27511Theory of the Conduction of Heat in<br>Solids.Woodward2511Manalytical Mechanics.Phister234231Theory of the Conduction of Heat in<br>Solids.Woodward25111Phory of potential FunctionPhister234231Theory of the Conduction of Heat in<br>Soli   | ents         | Cyem.<br>B.S.   | · · · · · · · · · · · · · · · · · · ·   | 14    |
| Title of CourseInstructorInstructor $H_{BB}^{\alpha}$ A.B.A.M., Ph.D.Analytical Mechanics.Woodward3A.B.A.M., Ph.D.Analytical Mechanics.Woodward3Theoretical Mechanics.Phister24-Theoretical Mechanics.Phister24-Theory of Dynamo and Motor.Pupin, Towns-3Theory of Dynamo and Motor.Pupin, Towns-3Theory of Dynamo and Motor.Pupin.24-Theory of Dynamo and Motor.Pupin.3Theory of Sternmets.Pupin.23-Theory of Natanble Currents, 2d half.Steinmetz.253Advanced Theoretical Mechanics.Pupin.253Theory of the Conduction of Heat in<br>Solids.Woodward255Analytical Mechanics.Phister2555Theory of the Conduction of Heat in<br>Solids.Woodward2555Analytical Mechanics.Phister25555Theory of the Conduction of Heat in<br>Solids.Total42255Analytical Mechanics.Phister25555Theory of the Conduction of Heat in<br>Solids.Phister25555Theory of the Conduction of Heat in<br>Solids.Phister255   | Stud         | Met.<br>E.      | 0   | 3     |
| Title of Course     Instructor     Instructor       Analytical Mechanics.     Woodward     3       Analytical Mechanics.     Phister     2       Theoretical Mechanics.     Phister     2       Theory of Dynamo and Motor.     Phister     3       Theory of Dynamo and Motor.     Pupin, Towns-     3       Theory of Dynamo and Motor.     Pupin.     2       Theory of Natiable Currents, 2d half     Woodward     2       Advanced Theoretical Mechanics.     Woodward     2       Theory of the Conduction of Heat in Solids.     Woodward     2       Analytical Mechanics.     Phister     2       Theory of the Conduction of Heat in Solids.     Total     2  |              | E.M.            | он  | 49    |
| Title of Course     Instructor     Instructor       Analytical Mechanics.     Woodward     3       Analytical Mechanics.     Phister     2       Theoretical Mechanics.     Phister     2       Theory of Dynamo and Motor.     Phister     3       Theory of Dynamo and Motor.     Pupin, Towns-     3       Theory of Dynamo and Motor.     Pupin.     2       Theory of Natiable Currents, 2d half     Woodward     2       Advanced Theoretical Mechanics.     Woodward     2       Theory of the Conduction of Heat in Solids.     Woodward     2       Analytical Mechanics.     Phister     2       Theory of the Conduction of Heat in Solids.     Total     2  |              | Ph.D.<br>W.     | · · · · · · · · · · · · · · · · · · ·   | 3     |
| Title of Course       Instructor       Instructor         Analytical Mechanics       Woodward       3         Analytical Mechanics       Phister       3         Theoretical Mechanics       Phister       3         Theory of Dynamo and Motor       Phister       3         Theory of Dynamo and Motor       Pupin, Towns-       3         Theory of Iternators and Transform-       Pupin       3         Pupin       Pupin       2         Theory of Alternators and Transform-       2       2         Pupin       Pupin       2         Theory of the Conduction of Heat in       Woodward       2         Solids       Pubrin       2       2         Analytical Mechanics       Photoward       2       2         Theory of the Conduction of Heat in       Woodward       2       2         Analytical Mechanics       Phister       2       2         Theory of Nothouticlon of Heat in       Phister <td></td> <td>A.M.,<br/>M.</td> <td></td> <td>22</td>  |              | A.M.,<br>M.     |   | 22    |
| Title of Course       Instructor         Analytical Mechanics.       Woodward         Analytical Mechanics.       Phister         Analytical Mechanics.       Phister         Theoretical Mechanics.       Phister         Theory of Dynamo and Motor.       Phister         Theory of Dynamo and Motor.       Pupin, Towns-<br>end.         Theory of Alternators and Transform-<br>ers, 1st half.       Pupin.         Theory of Variable Currents, 2d half.       Woodward.         Theory of the Conduction of Heat in<br>Solids.       Woodward.         Analytical Mechanics.       Pupin.         Theory of the Conduction of Heat in<br>Solids.       Woodward.         Analytical Mechanics.       Phister         Theory of the Conduction of Heat in<br>Solids.       Prodward.         Analytical Mechanics.       Phister         Theory of the Conduction of Heat in<br>Solids.       Prodward.         Analytical Mechanics.       Phister         Thermodynamics.       Phister  |              | A.B.            | . 4   | 4     |
| Title of Course       Instructor         Analytical Mechanics.       Woodward         Analytical Mechanics.       Phister         Analytical Mechanics.       Phister         Theoretical Mechanics.       Phister         Theory of Dynamo and Motor.       Phister         Theory of Dynamo and Motor.       Pupin, Towns-<br>end.         Theory of Alternators and Transform-<br>ers, 1st half.       Pupin.         Theory of Variable Currents, 2d half.       Woodward.         Theory of the Conduction of Heat in<br>Solids.       Woodward.         Analytical Mechanics.       Pupin.         Theory of the Conduction of Heat in<br>Solids.       Woodward.         Analytical Mechanics.       Phister         Theory of the Conduction of Heat in<br>Solids.       Prodward.         Analytical Mechanics.       Phister         Theory of the Conduction of Heat in<br>Solids.       Prodward.         Analytical Mechanics.       Phister         Thermodynamics.       Phister  | স্ব<br>12 চা | moH<br>Wee      |   | :     |
| Title of Course<br>Analytical Mechanics.<br>Elementary Mechanics.<br>Elementary Mechanics.<br>Theoretical Mechanics.<br>Theory of Dynamo and Motor.<br>Theory of Dynamo and Motor.<br>Theory of Dynamo and Motor.<br>Theory of Alternators and Transform-<br>ers, 1st half.<br>Theory of Alternators and Transform-<br>ers, 1st half.<br>Theory of Potential Function.<br>Theory of the Conduction of Heat in<br>Solids.<br>Analytical Mechanics.<br>Thermodynamics.   |              | Instructor      | Woodward<br>Pfister<br>Pfister<br>Pfister<br>Pupin, Towns-<br>end<br>Pupin<br>Steinmetz<br>Woodward<br>Woodward<br>Pfister<br>Pfister | Total |
| N N N N N N N N N N N N N N N N N N N  |              | Title of Course | Motor<br>Motor<br>md Transform-<br>ents, 2d half<br>Mechanics<br>notion<br>ion of Heat in   |       |
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DEPARTMENT OF MECHANICS

DEPARTMENT OF METALLURGY

|                | Grand<br>Total                | 66                   | 80<br>38   | 62<br>7                                      | 23                      | 10             | I    | I    | I                                       | 282       |
|----------------|-------------------------------|----------------------|------------|--|-------------------------|----------------|------|------|---|-----------|
|                | Spec.                         | 3                    | ω4         | 4 .  | 61                      | I              | :    | :    |   | 17        |
|                | E.<br>Mech.                   |                      | 29         | •••  | :                       | :              | •    | :    |   | 29 17 282 |
|                | E.E.                          | г                    | 26         | · · · · · · · · · · · · · · · · · · ·        | :                       | :              | :    | :    | • •                                     | 27        |
| ents           | C.E.                          | I                    | 14         | : :  | :                       |                |      | :    |   | 17        |
| Students       | B.S.<br>B.S.<br>Chefi<br>B.E. | 13                   | 1 4        | 14<br>                                       | :                       | :              | :    | :    | · · ·                                   | 32        |
|                | Met.<br>E.                    | 10                   |            | 04   | :                       | :              | :    | :    | <br>.н                                  | 12        |
|                | E.M. Met.<br>E.               | 42                   | 23.        | 39   | 18                      |                | :    | :    | · · · · · · · · · · · · · · · · · · ·   | 1         |
|                |                               | 4                    | 44         | <i>~~~</i> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 3                       | н              | . н  | H    | <br>H :                                 | 25 122    |
|                | A.B.                          |                      | · .        |  | :                       | •              | :    |      | · · ·                                   | н         |
| Hours a        | Week                          | 3                    | <i>ი</i> ი | 3<br>4 afts.                                 | 10 afts.                | Res.           | Res. | Res. | Res.<br>Res.                            |           |
| ,              | Instructor                    | Bentley              | Howe       | Bentley 3<br>Howe, Bentley. 4 afts.          | Howe, Bentley. 10 afts. | Howe, Bentley. | Howe | Howe | Howe.                                   | Total     |
|                | Little of Course              | f Iron and Steel, 2d |            |  |                         | -              |      |      | Gold, Silver, and Copper Howe<br>Thesis |           |
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REGISTRAR'S REPORT

|                 | Grand<br>Total              | 77 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4  | 382   |
|-----------------|-----------------------------|---|-------|
|                 | C.E. Special Grand<br>Total | ан а юна  | II    |
|                 | C.E.                        | 32  | 32    |
| Students        | B.S.<br>Chem.               | 13<br>13<br>9<br>7  | 42    |
| Stud            | Met.<br>E.                  | і<br>1<br>1<br>4  | IO    |
|                 | E.M.                        | 56<br>57<br>56<br>56<br>45  | 261   |
|                 | A.B. Ph.D.                  | л о о н   | ∞     |
|                 | A.B.                        | <b>Р</b> 10 10 10 10 10 10 10 10 10 10 10 10 10   | 18    |
| Hours           | week                        | 00000000000000000000000000000000000000  |       |
|                 | Instructor                  | Moses, Luquer,<br>McCord<br>Moses<br>Moses.Luquer<br>Moses, Luquer<br>Luquer<br>Moses   | Total |
| Title of Course |                             | IBlowpipe Analysis, 1st half2Crystallography, 1st half3General Mineralogy4Descriptive Mineralogy, 1st year,4aDescriptive Mineralogy, 2d4aDescriptive Mineralogy, 2d5Minerals of Building Stones6Optical Mineralogy, 2 months9Physical Crystallography10Physical Crystallography |       |
| No.             |                             | н с с 4 4 2000  |       |

DEPARTMENT OF MINERALOGY

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|                 | Grand<br>Total      | 440 220 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 468   |
|                 | Spec.               | н н н   | 6     |
|                 | C.E.                | α<br>ωωω 4 64   | 49    |
| Students        | Met.<br>E.          |   | 12    |
|                 | E.M.                |   | 369   |
|                 | A.B. A.M.,<br>Ph.D. |   | 34    |
|                 |                     | ю n   | 5     |
| Hours           | a Week              | маааа амнонн  |       |
| Instructor      |                     | Peele<br>Peele<br>Peele<br>Munroe<br>Munroe<br>Munroe<br>Peele<br>Peele<br>Peele<br>Munroe<br>Munroe<br>Peele, Kurtz<br>Peele, Kurtz  | Total |
| Title of Course |                     | Excavation and Tunnelling, 1st half<br>Boring and Shaft Sinking, 2d half.<br>Earth and Rock Excavation, 1st half.<br>Mining.<br>Ore Dressing Laboratory (3 weeks afts.)<br>Mine Engineering, 1st half.<br>Mine Plant.<br>Mine Plant.<br>Mine Plant.<br>Design of Mine Plant.<br>Mine Administration, 2d half.<br>Summer School in Mining (6 weeks)<br>Thesis. |       |
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|----------|---|---------------------------------------|-------|---|---------------|----------------|---|
|          | Title of Course                             | Instructor                            | Week  | A.B.                                    | LL.B.         | Grand<br>Total |   |
| 1        | Elements of Jurisprudence and Equity I      | Keener                                | 0     | 13                                      | IÓO           | 173            | 1 |
| _        | Contracts                                   | Terry                                 | 4     | 13                                      | 159           | 172            | _ |
|          | Real and Personal Property I                | Kirchwey                              | 6     | 13                                      | 160           | 173            | _ |
|          | Torts                                       | Burdick                               | 010   | 13                                      | 160           | 173            |   |
| с<br>4 г | Pleading and Practice I.                    | Redfield.                             | N 01  | 0 14                                    | 150           | 162            |   |
|          | Quasi-Contracts.                            | Kirchwey                              | 0     | · · · · · · · · · · · · · · · · · · ·   | 149           | 149            |   |
|          | Equity II                                   | Keener                                | 5     | ••••••                                  | 150           | ISO            |   |
|          | Real and Personal Property II               | Kirchwey                              | 5     | ••••••                                  | 151           | 151            |   |
|          | Agency                                      | Canfield.                             | 7     | · · · · · · · · · · · · · · · · · · ·   | 142           | 142            |   |
|          | Color of Domental Desconder                 | Bundle.                               | 01 0  |   | 125           | 125            |   |
| - · ·    | Pleading and Practice II                    | Redfield                              | 2 10  | •                                       | 144           | 171            |   |
|          | Negotiable Paper                            | Burdick.                              | ้ต่   |   | 150           | 150            |   |
|          | Pleading and Practice III., 1st half        | Redfield                              | 3     | · · · · · · · · · · · · · · · · · · ·   | ,<br>80<br>80 | 89             |   |
| <u> </u> | Corporations                                | Keener                                | 5     | ••••••                                  | 126           | 126            |   |
|          | Équity 111                                  | Keener                                | 3     | ••••••                                  | 124           | 124            |   |
|          | Evidence.                                   | Canfield.                             | 7     | •••••••                                 | 125           | 125            |   |
|          | Insurance                                   | Stone                                 | I     | •                                       | 71            | 71             |   |
|          | Partnership                                 | Burdick                               | 61    | ••••••••••••••••••••••••••••••••••••••• | 121           | 121            |   |
|          | Keal and Fersonal Property 111              | Kirchwey.                             | 61    | •••••                                   | 122           | 122            | - |
|          | The survey and Mortgage                     | Burdick, Aircnwey                     | 61    | ••••••                                  | 100           | 601            | - |
|          | Wills and Administration Transferred        | Keaneld.                              | 61    | ••••••                                  | 120           | 120            | _ |
|          | DOCUTINES FECTURAL TO NEW YORK LAW, 20 HAIT | Саппена                               | 0     | •<br>•<br>•<br>•                        | ø5            | 02<br>0        |   |
|          |   | Total                                 |       | 24                                      | 0100          | , you          | 1 |
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|             | bn<br>Is:       | Gra<br>Tot | 12<br>12<br>12<br>12<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13     | 130   |
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|             | A.M.,           | М.         |  | S     |
|             | В.              | W.         |  | 3     |
|             | A.B.            | М.         | юню н4н;н  | IS    |
| e K<br>La S | moł<br>9W       | I          | нино орнн  |       |
|             | Instructor      |            | MacDowell.<br>MacDowell.<br>McWhood<br>MacDowell.<br>MacDowell.<br>McWhood<br>MacDowell.<br>MacDowell. | Total |
|             | Ittle of Course |            | General Music Course   |       |
| No.         |                 |            | 1100 5 5 4 3 3 2 1 1 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1 1 1 1 0 1   |       |
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DEPARTMENT OF MUSIC

|                 |                | 1   |       |
|-----------------|----------------|---|-------|
| Students        | Grand<br>Total | 327<br>148<br>148<br>148                                  | 171   |
| Stud            | M.D.           | 327<br>148<br>148<br>148                                  | 171   |
| Hours a         | Week           | I<br>I<br>· · · ·   |       |
| Lessons         | Student        | IO  | •     |
|                 | TIISUIUCIOE    | stem (5 Starr   | Total |
| Title of Course |                | The Diseases of the Mind and Nervous System (5<br>months) |       |
|                 |                | C OHH   |       |

DEPARTMENT OF NEUROLOGY

334

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| No     Title of Course     Instructor     Ender<br>e add<br>b add     Itudents       1     Theory and Practice of Obstetrics (OctMar.)     E add<br>b add     M.D.     A.D.       1     Theory and Practice of Obstetrics (OctMar.)     Cragin     24     179     179       2     Recitations and Demonstrations     Voorhees     24      148     148       2     Pital     Dorman     7      148     148  |                     |                |  |   |        |                       |
|--|---------------------|----------------|--|---|--------|-----------------------|
| Title of Course     Instructor     Entructor     Entructor <t< td=""><td>lents</td><td>Grand<br/>Total</td><td>621</td><td>190</td><td>148</td><td>517</td></t<> | lents               | Grand<br>Total | 621  | 190                                     | 148    | 517                   |
| Title of Course     Instructor     actination       Theory and Practice of Obstetrics (OctMar.)     Cragin     24       Practical Instruction at the Sloane Maternity Hospital     Dorman     24   |                     |                | 179  | 190                                     | 148    | 517                   |
| Title of Course     Instructor       Theory and Practice of Obstetrics (OctMar.)     Cragin       Practical Instruction at the Sloane Maternity Hos-<br>pital.     Dorman  |                     | Hours a Week   | 3  | ••••••••••••••••••••••••••••••••••••••• | •      | *<br>*<br>*<br>*<br>* |
| Title of Course       Instructor         Theory and Practice of Obstetrics (OctMar.)       Cragin         Recitations and Demonstrations       Voorhees         Practical Instruction at the Sloane Maternity Hospital       Dorman  | ent<br>tras<br>tras | nossə.<br>DutZ |  | 24                                      | ~·     |                       |
|  |                     | Instructor     | Cragin                                       | Voorhees.                               | Dorman | Total                 |
|  | Title of Course     |                | Theory and Practice of Obstetrics (Oct-Mar.) | Recitations and Demonstrations          | pital  |                       |
|  | ;                   | ON1            | н  | 0 0                                     | >      |                       |

DEPARTMENT OF OBSTETRICS

| No.       Title of Course       Title of Course       Instructor       Lessons       Hours a cach       Wueek       Mutents       Candents       Grand         r       Clinical Lectures upon the Discases of the Eye       Knapp       Knapp       r       1       179       179       179         z       Practical Instruction in the Use of the Ophthalmo-       May       5       r       179       179       179         3       Practical Instruction in the Refraction and Mo-       May       5       r       179       179       179         4       Hospital Clinics on the Diseases and the Operative Surgery of the Eye, at the New York Ophthalmic Surgery of the Eye, at the New York Ophthalmic and Aural Institute       z       ? <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<> |                 |         |  |        |                   |   |       |
|--|-----------------|---------|--|--------|-------------------|---|-------|
| Title of Course     Title of Course     Instructor     Lessons     Hours ach<br>seach       Title of Course     Title of Course     Instructor     Lessons     Hours ach       Clinical Lectures upon the Diseases of the Ophthalmo-<br>Practical Instruction in the Use of the Ophthalmo-<br>scope     Knapp     I       Practical Instruction in the New York Ophthalmo-<br>Bractical Instruction in the New York Ophthalmo-<br>Bractical Clinics on the Diseases and the Operative<br>Surgery of the Eye, at the New York Ophthalmic<br>and Aural Institute     5     I   | Grand           | LOTAL   | 641  | 64I    | 179               | ۰.  | 537+  |
| Title of Course<br>Title of Course<br>Climical Lectures upon the Diseases of the Eye<br>Practical Instruction in the Use of the Ophthalmo-<br>scope<br>Practical Instruction in the Refraction and Mo-<br>practical Instruction in the New York Ophthalmo-<br>Hospital Clinics on the Diseases and the Operative<br>Surgery of the Eye, at the New York Ophthalmic<br>and Aural Institute  | Students        | M.D.    | 179  | 641    | 641               | n.  |       |
| Title of Course<br>Title of Course<br>Climical Lectures upon the Diseases of the Eye<br>Practical Instruction in the Use of the Ophthalmo-<br>scope<br>Practical Instruction in the Refraction and Mo-<br>practical Instruction in the New York Ophthalmo-<br>Hospital Clinics on the Diseases and the Operative<br>Surgery of the Eye, at the New York Ophthalmic<br>and Aural Institute  | Hours a         | w еек   | I  |        | :                 | N   |       |
| Title of Course<br>Title of Course<br>Climical Lectures upon the Diseases of the Eye<br>Practical Instruction in the Use of the Ophthalmo-<br>scope<br>Practical Instruction in the Refraction and Mo-<br>scope<br>Practical Instruction in the New Vork Ophthalmo-<br>tility of the Eye, at the New York Ophthalmic<br>Surgery of the Eye, at the New York Ophthalmic<br>and Aural Institute  | Lessons<br>each | Student | •  | S      | S                 | :   | •     |
| Title of Course<br>Title of Course<br>Climical Lectures upon the Diseases of the Eye<br>Practical Instruction in the Use of the Ophthalmo-<br>scope<br>Practical Instruction in the Refraction and Mo-<br>scope<br>Practical Instruction in the New Vork Ophthalmo-<br>tility of the Eye, at the New York Ophthalmic<br>Surgery of the Eye, at the New York Ophthalmic<br>and Aural Institute  | Instructor      |         | Knapp  | May    | Claiborne         | Knapp   | otal. |
| N о.<br>4 о о на с   | Title of Course |         | Clinical Lectures upon the Diseases of the Eye<br>Practical Instruction in the Use of the Ontthalmo- | Scope. | tility of the Eye | Surgery of the Eye, at the New York Ophthalmic<br>and Aural Institute |       |
|  | No              |         | нс   | 4 (    | . w               | 4   |       |

DEPARTMENT OF OPHTHALMOLOGY

336

| Students        | Grand<br>Total | 148<br>148<br>148                          | 444   |                         |
|-----------------|----------------|--|-------|-------------------------|
| Stud            | M.D.           | 148<br>148<br>148                          | 444   |                         |
| Hours           | Week           | тт.*                                       |       |                         |
| Lessons         | Student        | OI .                                       |       |                         |
| Instructor      |                | Gibney<br>Whitman<br>Gibney, Whitman       | Total | * Class sections of 20. |
| Title of Course |                | Clinical Lectures at the Vanderbilt Clinic |       | * Class                 |
| No.             |                | H O O                                      |       |                         |

DEPARTMENT OF ORTHOPÆDIC SURGERY

DEPARTMENT OF OTOLOGY

| No.     Title of Course     Instructor     Lessons     Students       r     Practical Instruction in the Diagnosis of the Diseases of the Ear.     Cowen, Lewis     8     179     179       2     Didactic Instruction in Pathology and Therapeutic Methods.     Buck     8     179     179       Total.     Total.     Anticentic Methods.     Buck     358     358 |         |                 |   |       |
|--|---------|-----------------|---|-------|
| Title of CourseInstructorLessons<br>each<br>ButPractical Instruction in the Diagnosis of the Diseases of the<br>Ear.Cowen, Lewis8Practical Instruction in Pathology and Therapeutic Methods.Buck35Total.Total.35   | lents   | Grand<br>Total  | 641<br>671  | 358   |
| Title of Course     Instructor       Practical Instruction in the Diagnosis of the Diseases of the Bar.     Cowen, Lewis       Didactic Instruction in Pathology and Therapeutic Methods.     Buck   | Stud    | M.D.            | 641<br>641  | 358   |
| Title of Course<br>Practical Instruction in the Diagnosis of the D<br>Ear  | Lessons | each<br>Student | ∞ 4   |       |
| Title of Course<br>Practical Instruction in the Diagnosis of the D<br>Ear  |         | Instructor      | Coweň, Lewis  | Total |
|  |         | The of Course   | Practical Instruction in the Diagnosis of the Diseases of the<br>Ear.<br>Didactic Instruction in Pathology and Therapeutic Methods. |       |
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|          | Grand<br>Total  | 190  |   | 180<br>179                             | S   | 554               | 252  | oor  | 442                      |
|----------|-----------------|--|---|--|---|-------------------|--|--|--------------------------|
| S.       | Spec.           |  |   | н                                      | 2   | 6                 | N  |  | 8                        |
| Students | M.D.            | 061  |   | 621<br>179                             | •   | 548               | 240  | ofi  | 430                      |
|          | A.M.,<br>Ph.D.  |  |   |  |   |                   |  |  |                          |
|          | A.B.            |  |   |  |   |                   | 0I   |  | OI                       |
|          | Hours<br>a Week | I  |   | 9                                      | 18  | ology).           | 6  | 4  |                          |
|          | Instructor      | Hodenpyl, Thatcher,<br>Briggs, Wood  | Prudden, Hodenpyl,<br>I adrin, Bollan   | Lartigan, Hubbard<br>Hodenpyl, Larkin  | Hodenpyl, Wood,<br>Hiss, Lartigan   | Total (Pathology) | Freeborn, Bailey,<br>Crampton, Banker,<br>Miller                                       | Freeborn, Bailey,<br>Strong, Crampton,<br>Banker, Miller                           | Total (Normal Histology) |
|          | Title of Course | A.—PATHOLOGY<br>Autopsy Technique and Pathological Anatomy<br>(8 weeks)<br>Practical Instruction in General Pathology, | Pathological Anatomy and Histology, and in<br>the Bacteriology of the Infectious Diseases<br>(§ year) | Demonstrations in Pathological Anatomy | mental Pathology, Bacteriology and Hygiene,<br>as Applied to Medicine and Clinical Pathology. |                   | B.—NorMar HisroLogy<br>Practical Instruction in General Normal His-<br>tology (‡ year) | Practical Instruction Similar in Character and<br>Method to that under r (\$ year) | L                        |
|          | No.             | н а  |   | ω.                                     | 4   |                   | н  | 8  |                          |

### COLUMBIA UNIVERSITY

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| C.—BACTERIOLOGY AND HYGIENE<br>Practical Instruction in Bacteriology and Hy-<br>giene (‡ year) |                            | D.—CLINICAL PATHOLOGY<br>Practical Instruction in Clinical Pathology ( <sup>1</sup> / <sub>4</sub><br>Photography, Photomicrography, and Skiag-<br>raphy; Practical Instruction   |
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DEPARTMENT OF PHILOSOPHY AND EDUCATION

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|          | Titl            |          | A.—PHILOSOPHY<br>storical and Crit<br>o Philosophy       | rs<br>rsy        | vanc<br>and J<br>Scier   | tudies in Buropean Philosophy from<br>the Renascence to the Enlighten-<br>ment                                   | Total (           | BEDUCA<br>ory of Educiples of Educion |                              | n and                           | Edu           | y.           | heory and Practing and Dracting     | heory and Practice of Teac      | heory and Prairies in Second                                      | heory and Practice of Teaching Eng-<br>lish in Elementary Schools  |
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|          |                 |          | A.—PHILOSC<br>Historical and<br>to Philosophy<br>Ethics. | Epistemology.    | Ethnes, Advanced Course<br>Principles and Problems of Æsthetics.<br>Logic and Scientific Method. | Studies in European Philosophy from<br>the Renascence to the Enlighten-<br>ment. Philosophical Practicum Seminar |                   | B.—EDUCATION.<br>History of Education | ing                          | Supervision and Critic Teaching | Secondary Edu | Child Study. | Theory and Practice of Teaching Art | Theory and Practice of Teaching | Theory and Practice of Teaching Eng-<br>lish in Secondary Schools | Theory and Practice of Teaching Eng-<br>lish in Elementary Schools |
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# COLUMBIA UNIVERSITY

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|          | Е.<br>Месћ.         | 1,               | ,<br>,                                | 57        |             |            | :   |        |             |                     |          |             |                       | :                | :                       | :       |                          |             |           | :           | :                        | :       | 88    |
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|          | Ph.D.<br>W.         |                  |                                       |           | :           | , <b>_</b> | 4   | н      | :           | :                   | :        | •           | :                     | :                | :                       | :       |                          | :           |           | :           | :                        | :       | 8     |
|          | A.M., Ph.D<br>M. W. |                  | v                                     | מי כ      | 3           | u          | n   |        | н           | I                   | ι.       | эн          | I                     | I                | H                       | 4       |                          |             | 3         | :           | н                        | :       | 37    |
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|          | Instructor          | Rood, Tufts      |                                       | .k        | Rood        | Hallock    |   | Parker | Tufts       | Hallock             | Tufts    | Tufts       | Hallock               | Hallock.         | nauock                  | Tufts   |                          | Parker      | Staff     | Staff       | rarker                   | Hallock | Total |
| 0.5      | Title of Course     | General Physics. |                                       | ats       | leat        | Light      | Electromotive Force of<br>Standard and Constant | Cells. | Photometry. | Viscosity of Solids | trometry | Calorimetry | Interference of Light | Polarized Light. | Elements of Theoretical | Physics | Absolute Measurements of | tive Force. | Research. | Laboratory. | Elementary General Phys- | sics    |       |
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DEPARTMENT OF PHYSICS

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|          | a Week A.B. A.M., M.D. Spec. Grand | 196<br>12<br>4                             | 212    |
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| ŝ        | Spec.                              | 187  | 13     |
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|          | Instructor                         | Chittenden, Gies<br>Gies<br>Gies, Richards | Total  |
|          | Title of Course                    | General Physiological Chemistry            |        |
| -        | No.                                | 100  |        |

|          | Grand<br>Total                     | 80                 | 470   | 487             |
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| ts       | a Week A.B. A.M., M.D. Spec. Grand | . I<br>            | ŝ   | IO I6 457 4 487 |
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|          | Instructor                         | Lee. Budington     | er<br>Curtis, Lee, Green  | Total           |
|          | Title of Course                    | General Physiology | The Physiology of Man as Kelated to that of other<br>Mammals and of Lower Vertebrates |                 |
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DEPARTMENT OF PHYSIOLOGY

DEPARTMENT OF PRACTICE OF MEDICINE

|          | Grand<br>Total  | 328                      | 327<br>148                            | 64 I   | 148                             | 061<br>671                            | <i>~.</i>                             | 1499+ |
|----------|-----------------|--------------------------|---------------------------------------|--------|---------------------------------|---------------------------------------|---------------------------------------|-------|
| Students | Special         | I                        | · · · · · · · · · · · · · · · · · · · |        |                                 |                                       | •                                     | I     |
|          | M.D.            | 327                      | 327<br>148                            | 641    | 148                             | 061<br>671                            | <b>~</b>                              | 1498+ |
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| Lessons  | eacn<br>Student |                          |                                       | 24     | 30                              | 30<br>30                              | •                                     | •     |
|          | Instructor      | James                    | James                                 | Sumner | Griffin. Bovaird Evans          | Potter, Salley.                       | Feabody, James,<br>Ball, Kinnicutt    | Total |
|          | Inde of Course  | The Practice of Medicine |                                       |        | Recitations in General Medicine | Recitations in General Medicine.      | riospital Ulinics in General Medicine |       |
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REGISTRAR'S REPORT

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| Title of Course<br>Trate of Course<br>Trate of CourseTitle of Course<br>MediaInstructor<br>MediaHouse<br>MediaInstructor<  |        | Audi-           | tors      | - :  | 0  | :::  | ::                  | : :                      | :          | : :            | 1                  | н  | : 4    | 1                 |
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| Title of Course         Instructor         Hours<br>week         A.B.           APsycholocy         APsycholocy         M. W.         M. W.           Bather, Farrand,<br>Introduction to Psychology, Introductory,<br>Elemental Psychology, Introductory,<br>Experimental Psychology, Introductory,<br>Experimental Psychology, Introductory,<br>Experimental Psychology, Cattell, Davis, Res.         22         2           Elemental Psychology, Introductory,<br>Experimental Psychology, Cattell, Davis, Res.         2         2         2           Experimental Psychology, Cattell, Davis, Res.         2         2         2         2           Diseases of the Mind and Nervous System<br>Research in Physological and Abnormal<br>Research in Physological and Comparative<br>Philosophy of Mind.         2         1         1           Research in Physological and Comparative<br>Philosophy of Mind.         2         1         2         1         2           Research in Physological and Comparative<br>Philosophy of Mind.         2         1         2         1         2         1           Research in Physological Abnormal<br>Research in Ph  | St     |                 | W.        | •  |  | : H  | ::                  | ::                       | :          |                | н                  | · H · · ·  |        | 0                 |
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| о. Ан ам40000 на 6 на 600 г.   |        | Title of Course |           |  | Experimental Psychology, Introductory<br>Experimental Psychology, Advanced | Problems in Experimental Psychology<br>Research in Experimental Psychology | Analytic Fsychology | Fnysiological Psychology | Psychology | anu comparauve |                    | B.—ANTHROPOLOGY<br>Anthropology.<br>The Statistical Study of Variation<br>Ethnology<br>American Languages.<br>Research in Physical Anthropology, Eth-<br>nology and North American Languages | 0      | Der               |
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DEPARTMENT OF PUBLIC LAW AND JURISPRUDENCE

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| Title of Course<br>Title of Course<br>Comparative Constitutional Law.<br>Governmental Organization of the Territories and other<br>Dependencies of the United States.<br>Private Rights and Immunities under the Constitution<br>of the United States.<br>American Constitutional Law Historically Viewed.<br>Advanced Seminar in Constitutional Law.<br>History of American Diplomacy.<br>History of American Diplomacy.<br>History of American Diplomacy.<br>History of American Diplomacy.<br>History of American Buropean States.<br>and the Principal Buropean States.<br>and the Principal Buropean States.<br>and the Principal Buropean States.<br>Municipal Administration.<br>The Law of Taxation.<br>The Law of Municipal Corporations.<br>Seminar in Administrative Law.<br>Roman Law II., 2d half.<br>Roman Law II., 2d half.<br>Comparative Jurisprudence.<br>International Private Law.<br>Spanish-American Law.   |       |
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### REGISTRAR'S REPORT

COLUMBIA UNIVERSITY

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| Title of Course |                        |          | FRENCH<br>Elementary Course<br>Elementary Course<br>Elementary Course for University | Students   |                       | History of French Literature dur-<br>ing the Seventeenth Century<br>History of French Literature dur- | ing the Eighteenth Century<br>he Literary Movement in France | during the Second Half of the<br>Nineteenth Century                          | France.<br>History of the French Language.<br>Old French, Selected Extracts                                | Critical Bibliography of Franch<br>Literature from the Sixteenth to<br>the End of the Nineteenth Cen-<br>tury |       |
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DEPARTMENT OF ROMANCE LANGUAGES

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\* Optional. Does not count toward a degree.

#### REGISTRAR'S REPORT

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| ROMANCE PHILOLOO<br>Introduction<br>Old French Dialects.<br>Seminar |                                       | SPANISH<br>Spanish Conversation.<br>Elementary Course<br>Advanced Course  |                 | ITALIAN<br>Italian Literature of the Four-<br>teenth and Fifteenth Centuries<br>Critical Study of Dante's Divines. | Com       |                                       | Provençal.<br>Old Provençal. |                    |                    |
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| DEPARTMENT OF SEMITIC LANGUAGES       No.     Trite of Course     Instructor     House     House     A.B.     A.B.     A.B.     A.B.       1     Biblical Hebrew.     Conthell     2     2     3     1     7     1       2     Biblical Hebrew.     Conthell     2     3     1     7     W     W     M       4,5     Rabinical Hebrew.     Conthell     2     3     1     7     W     M     W       1     Semitic Seminar     Conthell     2     3     1     7     1     4       1     Syriac.     Conthell     2     3     1     7     1     4       1     Syriac.     Conthell     2     3     1     7     1     4       1     Syriac.     Conthell     2     3     1     7     1     4       1     Sprint     Total     2     2     1     1     4       1     Sprint     Total     2     2     2     1     4       1     Arabic.     Conthell     2     2     2     1     4       1     Total     2     2     2     2     1     4   |            |       |                 |       |   |      |          |       |                 |   |                |                                  |                                  |
|--|------------|-------|-----------------|-------|---|------|----------|-------|-----------------|---|----------------|----------------------------------|----------------------------------|
| DEPARTMENT OF SEMITIC LANGUAGES         Title of Course       Instructor       Hours<br>Week       A.B.       A.B.       Auditants         Title of Course       Gottheli       Week       M.       W.       M.       M.       M.         Biblical Hebrew       Gottheli       Cottheli       2       3       1       3       Special         Biblical Hebrew       Gottheli       2       3       1       7       1       N         Biblical Hebrew       Gottheli       2       3       1       7       1       N                  |            |       | Grand           | Total | н   | 4 I  |          | ents  | Grand<br>Total  | 327   | 641            | 148<br>148                       | 148                              |
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| DEPARTMENT OF SEMITIC LANGE         Title of Course       Hours       Hours       Hours         Title of Course       Gottheil       as       A.I.         Biblical Hebrew       Gottheil       a       A.I.         Biblical Hebrew       Gottheil       a       A.I.         Biblical Hebrew       Gottheil       a       a         Biblical Hebrew       Gottheil       a       a         Arabic       Second Course       Gottheil       a       a         Sprind       Semitic Seminar       a       a       a         Semitic Seminar       Total       a       a       a         Series       Series       a       a       a       a         Series       Series       a       b       a       a       a         Series       Series       a       a       a       a       a< | AGES       |       |                 | W.    | н   | 5    |          | su    | ossəJ           |   | Ĥ              |                                  |                                  |
| Title of Course<br>Biblical Hebrew<br>Biblical Hebrew<br>Biblical Hebrew<br>Rabbinical Hebrew<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Seminar<br>Arabic. Seminar<br>Arabic Surgery and Bandaging<br>Practical Instruction in Minor<br>Vire Surgery upon the Ca  | LANGU      |       | A.B.            | M.    |   | 8    | GERY     |       |                 |   |                | 1. Tavlor                        | Brewe                            |
| Title of Course<br>Biblical Hebrew<br>Biblical Hebrew<br>Biblical Hebrew<br>Rabbinical Hebrew<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Seminar<br>Arabic. Seminar<br>Arabic Surgery and Bandaging<br>Practical Instruction in Minor<br>Vire Surgery upon the Ca  | EMITIC     | Hours | Week            |       |   |      | DF SUR(  |       | Istructor       |   |                | Bickhan                          | I otchkiss                       |
| Title of Course<br>Biblical Hebrew<br>Biblical Hebrew<br>Biblical Hebrew<br>Rabbinical Hebrew<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Second Course.<br>Arabic. Seminar<br>Arabic. Seminar<br>Arabic Surgery and Bandaging<br>Practical Instruction in Minor<br>Vire Surgery upon the Ca  | MENT OF SE |       | Instructor      |       |   | ota1 | PARTMENT |       | П               | Bull, Weir<br>Bull Weir                               | Foote, Martin. | Foote, Martin.<br>Hartlev. Peck. | Gallaudet, F<br>Blake            |
| ол на с 4 н н н н N 0.<br>0 н а с 4 н н н н н N 0.<br>0 н а с 4 с 4 с 7 0.   | DEPAR      |       | Title of Course |       |   | Tc   | DE       |       | Title of Course | Surgical Pathology, General and Re-<br>gional Surgery | Ċ              | tive Surgery                     | Practical Instruction in Surgery |
|  |            |       | No.             |       | 4<br>11<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14<br>14 |      |          |       | No.             | нс  | ·              | 4 r                              | 00                               |

COLUMBIA UNIVERSITY

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Total.....

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Markoe, , Coley,

McCosh, Eliot, Hartley

Weir, Bull, Har Abbe, McCosh, Poore.....

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Dowd.....

Practical Instruction in the Surgery Surgery Hospital Surgical Clinics or Demon-strations.

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Eliot...........

DEPARTMENT OF ZOÖLOGY

Grand Total 48 14 1 53 105 130 Spec. ..... ..... ...... .... . . . 0 н 2 ~ •••••• \* \* \* \* \* \* .... E.M. 48 48 Students • • • • • • ..... ••••• M.D. ..... . . . . . H н ..... A.M., Ph.D. **о**наанн W. 2 12 12 3 4 S S H Ċ1 X. 4 4 4 3 н 49 ..... ..... A.B. 6 0 H 13 -Hours a Week Total..... 43 03 н 9 9 9 3 9 0 Gregor..... Dean, McGregor.... Calkins, McGregor. Dean, Calkins, Mc-O. S. Strong..... Osborn, Wilson.... Wilson..... Osborn..... O. S. Strong Calkins ..... Calkins..... Dean . . . . . Wilson, Dean, Instructor Dean.... Sanitary Biology, 1st half..... Practical Histology ..... Elementary Zoölogy, 2d half..... Elementary Zoölogy..... General Zoölogy ..... Comparative Neurology..... Comparative Zoölogy..... Readings and Conferences..... Comparative Embryology, 2d half... Mammals, Living and Fossil. Special Morphology (The Protozoa The Human Brain and Spinal Cord. : Advanced Biology (Research) Cellular Biology, 2d half Title of Course 2d half. 4 5 50 000 No. H (1 3 60 11 15 16 16

#### REGISTRAR'S REPORT

# 352 COLUMBIA UNIVERSITY

# CLASSIFICATION OF STUDENTS ATTENDING ONE OR MORE COURSES

|  | College  |   |  |  |  | L         | AW                                  |          |         | M         | DICI                                   | NB   |  |  |
|--|--|---|--|--|--|-----------|-------------------------------------|----------|---------|-----------|--|--|--|--|
| 1901–1902  | Freshman   | Sophomore   | Junior   | Senior   | Special  | ıst Class | 2d Class                            | 3d Class | Special | rst Class | 2d Class                               | 3d Class   | 4th Class                              | Special                                    |
| Public Law and Jurisprudence<br>Romance Languages and Litera-<br>tures:  | 138<br>85<br>43<br>35<br>123<br>112<br>1<br>12<br>1<br>1<br>12<br>1<br>1<br>12<br>1<br>1<br>1<br>1<br>1<br>1 | 1 2 2 3 3 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | I         8           4         30           4         45           774         9           45         11            64            64            19           10         2            5            2            35           314             84           1             24 | ·····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>·····<br>······ | I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | 101       | *22<br>                             | 126      | 22      | 260<br>   | 190<br>190<br>190<br>190<br>190<br>190 | 178<br>178<br>178<br>178<br>178<br>178<br>178<br>178 | 148<br>148<br>148<br>148<br>148<br>148 | 8<br><br>4<br><br>2<br><br>9<br>9<br><br>9 |
| B. Italian.<br>C. Spanish.<br>Semitic Languages.<br>Surgery.<br>Zoölogy. | 7  | 4<br><br>I  | 7<br>3<br>6  | 3<br>3<br>5  | · · · · ·<br>· · · · ·<br>4  |           | • • • • •<br>• • • • •<br>• • • • • | <br><br> |         |           |  | 178  | <br>148                                | · · · · · · · · · · · · · · · · · · ·      |

# REGISTRAR'S REPORT

# OF INSTRUCTION IN THE VARIOUS DEPARTMENTS

| A   | PPLIE                | D Sci                     | ENCI                     | 3                   |                               | Poli<br>Scie     | TICAL          | Рн<br>oso                 | IIL-<br>PHY    | Pu<br>Scie                                | RE             |                           |   |
|---|----------------------|---------------------------|--------------------------|---------------------|-------------------------------|------------------|----------------|---------------------------|----------------|---|----------------|---------------------------|---|
| rst Class<br>2d Class                           | 3d Class             | 4th Class                 | A.M.                     | Ph.D.               | Special                       | Higher Degrees   | Non-Candidates | Higher Degrees            | Non-Candidates | Higher Degrees                            | Non-Candidates | Barnard<br>Undergraduates | Total   |
| 29 16<br>3<br>76 4<br>170 136<br>83 74<br>      | 13<br>19<br>52<br>72 | 15<br>9<br>12<br>36       | I<br>I<br>2<br>          | I                   | 12<br>1<br>18<br>11<br>       | <br><br><br><br> |                | <br>4<br><br>34<br><br>24 |                | 2<br>9<br>19<br>1<br>1<br>1<br><br>2<br>2 | I              | 5                         | 476<br>90<br>61<br>102<br>287<br>211<br>148<br>148<br>315<br>271<br>486 |
| 5 49  | 49                   | 5                         | 3                        | 2                   | <br>8                         | 5<br>            | •••••<br>••••  | 85<br>                    | · · · · ·      | 5   | · · · · ·      | I<br>                     | 486<br>178<br>145   |
| *2 *1   | *1.                  |                           |                          |                     | <br><br>                      | 9<br>I           |                | 34<br>32                  |                | I   |                | 3                         | 273<br>117<br>368   |
|   |                      | · · · ·   ·               |                          |                     | · · · · ·                     | 64<br>           | I<br>          | 21<br>12<br><br>39        | · · · · ·      |   |                |                           | 347<br>15<br>148<br>270   |
| 170 131<br>166 134<br>11<br>19<br>67 68<br>8 46 | 78 9                 | 74<br>67<br>57<br>4<br>25 | 2 .<br>4 .<br>3 I .<br>4 | I<br><br>2<br><br>I | 2<br>12<br>1<br>13<br>8<br>12 |                  |                | 6<br>1                    |                | 5<br>II<br>4<br>4                         |                | I                         | 370<br>499<br>524<br>209<br>177<br>176<br>154                           |
|   |                      | FI .                      |                          |                     |                               | 4                |                | 6                         |                |   |                | 30                        | 464<br>53<br>178<br>516<br>178<br>148<br>178<br>795                     |
| 167 III   | 3                    | 3                         | I                        |                     | 3                             | 3                |                | 41<br>143<br>2            |                | 4<br>15<br>8                              |                | 12                        | 138<br>175<br>599<br>202<br>471<br>517                                  |
| · · · · · · · · · · · · · · · · · · ·           | ••••                 |                           | · · · · · ·              | ••••                |                               | 3<br>47          | x              | 48 .<br>10 .              |                | I .<br>                                   |                | 3<br>12                   | 193<br>32<br>237  |
| *I  | *2                   |                           |                          |                     | I<br>                         | 3 -<br>I -       |                | 34<br>9<br>16.<br>3       |                | I .<br>                                   |                | Σ<br>Σ                    | 216<br>11<br>26<br>23<br>326<br>91                                      |

\* Optional. Does not count towards a degree.

In the departmental statistics appearing on pages 273-351, the enrollment in the various courses of instruction given during the year by the departments has been indicated; that is, reference is there made to units of instruction. But owing to repetitions caused in many instances by students pursuing more than one course in a department, it is impossible, without further information, to analyze the nature of any departmental clientele. Accordingly, there has been prepared the table that appears on pp. 352-353, wherein is indicated, free from repetition, the proper classification of the students who attended one or more courses of instruction in the respective departments.

> Respectfully submitted, GEO. B. GERMANN,

> > Registrar

# REPORT

# To the Trustees of Columbia College in the City of New York:

The Treasurer makes the following report of the financial affairs of the Corporation for the year ending June 30th, 1902.

|     | TREASURER'S REPORT   | 357             |
|-----|--|-----------------|
|     |  | \$111,802 33    |
|     | \$41,768 70<br>56,027 77<br>14,005 86  |                 |
|     | \$4,682 01<br>7,000 55<br>7,000 55<br>1,810 57<br>50 00<br>30 00<br>3,50 00<br>3,50 00<br>3,50 00<br>3,500 00  |                 |
| Dr. | Cash Accounts–<br>General Funds:<br>New York, Life Insurance and Trust Co<br>Bank of New York, N. B. A<br>Bank of New York, N. B. A<br>Bank of New York, N. B. A<br>Corn Exchange Bank–University Branch:<br>Subject to Bursar's Check \$ 2,019 98<br>Subject to Bursar's Check<br>Hudson River Bank<br>Hudson River Bank<br>Hudson River Bank<br>Superintendent<br>Superintendent<br>Secretary<br>Secretary<br>Trust Funds:<br>Continental Trust Co<br>Funds for Designated Purposes:<br>Funds for Designated Purposes:<br>Funds for Designated Purposes:<br>Continental Trust Co<br>Loubat Fund income (N. Y. Life Ins. and Trust Co)<br>Loubat Fund income (N. Y. Life Ins. and Trust Co) | Carried forward |

BALANCE SHEET, JUNE 30, 1902

| 3                                      | 58              |   | TREASU   | IRER'S REPO.  | RT  |                      |   |                 |
|--|-----------------|---|--|---|---|----------------------|---|-----------------|
|  | \$ III,802 33   | 5,032 00<br>1,674,624 01<br>2,033 76        |  |   | 8,805,959 07<br>2,239 00                          | 500 00<br>178,833 73 | 98,586 17<br>862 74   | \$10,880,472 81 |
| -Continued                             |                 |   | \$6,856,112 25<br>108,636 36<br>9,620 89<br>164,844 65<br>15 00  | 89,990 65<br>126,859 00<br>342,257 37<br>1,100,000 00<br>7,622 90 |   |                      |   |                 |
| BALANCE SHEET, JUNE 30, 1902-Continued | Brought forward | Rents due and unpaid (Schedule 16, page 61) | <ul> <li>r, r898)</li> <li>University Hall, Bnlargement</li> <li>University Hall, Equipment</li> <li>Earl Hall.</li> <li>College Hall.</li> <li>College of Physicians and Surgeons, Buildings, Additions, and Im-</li> </ul> | provements  | Loans from Students' Loan Fund on Students' Notes | Frize, 1902          | Interest Account, 1901–2 in anticipation of gifts to the Interest Fund<br>Summer Session 1902 |                 |

|   | TREASURER'S REPORT  | 359                         |
|---|---|-----------------------------|
| \$1,717,916 91<br>15,181 01<br>6,642 18<br>53,452 93  | 24,614 II<br>2,980,015 91   | 31,250 00<br>\$4,829,073 05 |
|   | \$13,809 28<br>553 30<br>553 30<br>2,790 48<br>115 72<br>6,916 63<br>27 40<br>1,000 00<br>1,000 00<br>1,000 00<br>1,000 00<br>1,000 00<br>1,000 00  |                             |
| Principal of Trust Funds (Schedule 11, page 33)<br>Income of Trust Funds, Credit Balances (Schedule 13, 8th col., page 53)<br>Students' Loan Fund<br>Funds for Designated Purposes (Schedule 14, page 56) | <ul> <li>Bloomingdale Site, Accounts Payable.</li> <li>Bloomingdale Site, Account, University.</li> <li>Deposit Ledger Account, University.</li> <li>Deposit Account, University.</li> <li>Students' Ledger Account.</li> <li>Students' Ledger Account.<td>Carried forward</td></li></ul> | Carried forward             |

Cr.

| 300                                    |                 |                                |                        |                                  | 7                       | REA                                      | 4 <i>SU</i>     | RER'S           |
|--|-----------------|--------------------------------|------------------------|----------------------------------|-------------------------|--|-----------------|-----------------|
|  | \$4,829,073 05  |                                |                        |                                  |                         | 3,699,240 00<br>I,I00,000 00             | 1,252,159 76    | \$10,880,472 81 |
|  | :               | \$1,000,000 00<br>1,000,000 00 | 750,000 00             | 48,000 00                        | I,240 00                |  |                 |                 |
| BALANCE SHEET, JUNE 30, 1902-Continued | Brought forward | Bloomingdale Site Mortgage     | Columbia College Notes | Williamsbridge Property Mortgage | Philolexian Prize Fund. | Loubat Mortgage, 503–511 Broadway, N. Y. | Personal Estate |                 |

## RECEIPTS AND PAYMENTS

#### RECEIPTS

| Brought forward\$2,681 20<br>Interest Account ( <i>Continued</i> ):<br>On deposits of Spe <b>c</b> ial | \$1,264,969 59 |
|--|----------------|
| Funds 1,121 42<br>On portion of Butler Mort-   |                |
| gage transferred to the<br>Dean Lung Fund 76 00<br>\$3,878 62  |                |
| Rents, Special Real Estate Account   |                |
| (Schedule 9, page 30):<br>Williamsbridge Property 780 00<br>General Society Proper-                    |                |
| ties 7,498 10  |                |
| 503-511 Broadway, N. Y. 53,046 61  |                |
| <u> </u>   | 65,203 33      |
| Miscellaneous Receipts (Schedule 5, pages  | - 37 0 - 00    |
| 13 to 15)  | 548,087 12     |
|  | \$1,878,260 04 |
| PAYMENTS   |                |
| Current Expenses (Summary of Schedule  |                |
| 6, page 27)\$1,030,036 4   | 7              |
| Interest (Schedule 8, page 29):  | /              |
| On Bloomingdale Site Mort-   |                |
| gage\$35,000 00  |                |
| On Columbia College 3%   |                |
| Mortgage Bonds 57,150 00   |                |
| On Columbia College Notes. 31,653 12<br>On Williamsbridge Property                                     |                |
| Mortgage 1,920 00  |                |
| On Special Fund for Depart-  |                |
| ments of Mining and Me-<br>tallurgy 486 o3   |                |
| tallurgy 486 o3<br>On Uninvested Trust Funds 396 o3  |                |
| 126,605 18   | 3              |
| Expenses of Special Real Estate,   |                |
| as shown in Schedule 9,  |                |
| page 30, exclusive of interest   |                |
| apportionment:<br>Williamstaiden Desearte  |                |
| Williamsbridge Property.2,50697General Society Properties5,04959                                       |                |
| General Society Properties 5,049 59<br>Gaillard–Loubat Library   |                |
| Endowment Fund 94,367 62 🖁   |                |
| IOI,924 I  |                |
| Miscellaneous Payments (Schedule 10, pages   | - 1,258,565 83 |
| 31 and 32)   | 507,891 88     |
| Cash Balances, June 30, 1902- (See Balance Sheet)  | . 111,802 33   |
|  | \$1,878,260 04 |
|  |                |

## INCOME OF THE CORPORATION

## (Exclusive of Income of Trust Funds, Interest and Special Real Estate Accounts)

#### RENTS

| Upper Estate\$217,7 | 63 00     |    |              |
|---------------------|-----------|----|--------------|
| Lower Estate        | 16 00     |    |              |
|                     | \$386,579 | 00 |              |
| Arrears of Rent     | 7,166     | 50 |              |
| Interest on Rents   | 636       |    |              |
| Rent of West Hall   | 345       | 00 | \$394,726 78 |
|                     |           |    | \$394,720 78 |

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FEES
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| Morningside:                           |              |  |  |  |  |  |  |  |
|--|--------------|--|--|--|--|--|--|--|
| Matriculation Fees 2,540               | 00           |  |  |  |  |  |  |  |
| Tuition Fees 278,983                   | 75           |  |  |  |  |  |  |  |
| Graduation Fees 11,890                 | 00           |  |  |  |  |  |  |  |
| Special Examination Fees 120           | 00           |  |  |  |  |  |  |  |
| Auditors' Fees 1,100                   | 00           |  |  |  |  |  |  |  |
| Gymnasium Fees 11,746                  | 00           |  |  |  |  |  |  |  |
| Gymnasium, Women's Evening             |              |  |  |  |  |  |  |  |
| Session. Fees and Gifts 149            | 58           |  |  |  |  |  |  |  |
|  | — 306,529 33 |  |  |  |  |  |  |  |
| College of Physicians and Surgeons:    |              |  |  |  |  |  |  |  |
| Matriculation Fees 1,195               | 00           |  |  |  |  |  |  |  |
| Tuition Fees 152,615                   | 00           |  |  |  |  |  |  |  |
| Graduation Fees 3,700                  | 00           |  |  |  |  |  |  |  |
|  | 157,510 00   |  |  |  |  |  |  |  |
| Tuition Fees for students at Columbia: |              |  |  |  |  |  |  |  |
| From Barnard College 2,576             | 00           |  |  |  |  |  |  |  |
| " Teachers College 1,265               | 00           |  |  |  |  |  |  |  |
|  | - 3,841 00   |  |  |  |  |  |  |  |
|  | 467,880 33   |  |  |  |  |  |  |  |
| MISCELLANBOUS                          |              |  |  |  |  |  |  |  |
| Barnard College, for Steam Heat        |              |  |  |  |  |  |  |  |

| Darmard Concege, for Oceani meat   |         |    |           |    |
|------------------------------------|---------|----|-----------|----|
| and Power                          | 3,500   | 00 |           |    |
| Barnard College, for Electric Cur- |         |    |           |    |
| rent Supplied                      | 1,412   | 98 |           |    |
| Sales of University Catalogue      | 121     | 00 |           |    |
| Sales of Brewer's Notes, Depart-   |         |    |           |    |
| ment of Anatomy                    | 234     | 90 |           |    |
| Carried forward                    | \$5,268 | 88 | \$862,607 | 11 |

| Brought forward  | \$5,268 | 88  | \$862,607 | II |
|--|---------|-----|-----------|----|
| Sale of Old Greenhouses (net)<br>Sales of History, College of Phy- | б       | 50  |           |    |
| sicians and Surgeons   | I       | 50  |           |    |
| Sales of Material, Department of                                   |         |     |           |    |
| Anatomy  | 1,306   | 75  |           |    |
| Sales of Material, Department of                                   |         |     |           |    |
| Osteology<br>Sales of Material, Department of                      | 27      | 50  |           |    |
| Physiology   | 67      | 60  |           |    |
| Sales of Material, Department of                                   |         | - 9 |           |    |
| Pathology  | 52      | 66  |           |    |
|  |         | -   | 6,731     | 48 |
|  |         |     |           |    |

\$869,338 59

## RECEIPTS FOR DESIGNATED PURPOSES

# From Barnard College towards salaries in the following Departments:

| English  | \$6,900 | 00 |             |
|--|---------|----|-------------|
| English<br>Germanic Languages and Literatures  | 2,800   |    |             |
| Greek and Latin at Barnard   | 6,500   |    |             |
| Philosophy and Education   | 1,000   |    |             |
| Romance Languages and Literatures  | 4,800   |    |             |
| Romance Danguages and Diteratures  | 3,600   |    |             |
| Botany   | 2,550   |    |             |
| Chemistry at Barnard<br>Mathematics  | 6,100   |    |             |
|  | 2,300   |    |             |
| Physics  | 2,500   |    |             |
| Zoólogy<br>School of Political Science   | 12,400  |    |             |
| School of Pointical Science  | 12,400  |    | \$51,450 00 |
| Educational Administration Salarios (gift)   | 500     | 00 | \$31,430 00 |
| Educational Administration, Salaries (gift)  | 500     |    |             |
| Educational Administration, Lectures (gift).   | 1,000   | 00 |             |
| Educational Administration, Sextennial Cata-   |         | 80 |             |
| logue (sales)  | 51      | 80 |             |
| -  |         |    | 1,551 80    |
|  |         |    |             |
| Library:   |         |    |             |
| Destread Dinding (soles and fings)   | 106     | 48 |             |
| Books and Binding (sales and fines).   | 406     |    |             |
| Completion of Parliamentary Papers (gifts).  | 2,040   |    |             |
| Crimmins-Mansi Fund (gift)<br>Educational Catalogue (gift) \$500 00<br>Educational Catalogue (sales) 28 93 | 210     | 00 |             |
| Educational Catalogue (gift) \$500 00  |         |    |             |
| Educational Catalogue (sales) 28 93  |         |    |             |
|  | 528     |    |             |
| Lewisohn Dissertation Fund (gift)  | 3,000   | 00 |             |
| James Loeb Fund (gift for 1901-  |         |    |             |
| 02) \$75 00  |         |    |             |
| James Loeb Fund (gift for 1902-  |         |    |             |
| 03)  |         |    |             |
|  | 150     |    |             |
| F. A. Schermerhorn Fund (gift)   | 350     |    |             |
| Special Fund, 1901 (gift)  | 10,000  | 00 |             |
| -  |         |    | 16,685 41   |
|  |         |    |             |
| Fellowships, Scholarships, and Prizes:   |         |    |             |
|  |         |    |             |
| Alumni Fellowships, School of Medicine   |         |    |             |
| (gift)<br>Annual Fellowship in American History  | 1,500   | 00 |             |
| Annual Fellowship in American History  |         |    |             |
| (gift for 1902–03)   | 650     | 00 |             |
| Annual Fellowship in Comparative Litera-   | ,       |    |             |
| ture (gift)  | 650     |    |             |
| Annual Fellowship in German (gift)   | 650     | 00 |             |
| Annual Fellowship-University Settlement  |         |    |             |
| Society (gift)   | 250     |    |             |
| Lawrence Annual Scholarship (gift)   | 200     |    |             |
| John D. Jones Scholarship (gift)   | 200     | 00 |             |

Carried forward..... \$4,100 00 \$69,687 21

| Brought forward   | \$4,100 00           | \$69,687 21                       |
|---|----------------------|-----------------------------------|
| Special Pulitzer Scholarships (gift)<br>Toppan Prize in Municipal Law (gift)                                    | 5,750 00<br>150 00   |                                   |
| Comparative Literature, Salaries (gift)<br>Germanic Languages and Literatures: Special<br>Equipment Fund (gift) |                      | 10,000 00<br>1,000 00<br>1,075 00 |
| Oriental Languages, Salaries:   |                      | 1,075 00                          |
| (Gift for 1901–02)<br>(Gift for 1902–03)  | 1,000 00<br>1,000 00 |                                   |
| Philosophy and Psychology, Salaries (gift for   |                      | 2,000 00                          |
| 1902–03)<br>Psychology and Anthropology, Salaries (gift).<br>Romance Languages and Literatures, Depart-         |                      | 7,500 00<br>2,500 00              |
| mental Appropriation (gift)<br>French Lecture Fund (gift)   | 2 I3<br>470 00       | 472 13                            |
| Architecture, Salaries:   |                      | -110                              |
| (Gift for 1901–02)<br>(Gift for 1902–03)  |                      | 7,000 00                          |
| Chemistry: Supplies (breakage and supplies)   |                      | 7,821 65                          |
| Civil Engineering, Departmental Appropria-<br>tion:   |                      |                                   |
| Road tests\$157 oo<br>Less one-half paid Mr. Black78 50   | #8 FO                |                                   |
| Sale of Lecture Notes   | 78 50 24 02          | 102 52                            |
| Electrical Engineering, Departmental Appropriation:   |                      |                                   |
| Sales of material   |                      | 38 01                             |
| Mechanical Engineering, Mechanical Labora-<br>tory and Summer School:   |                      |                                   |
| Sales.<br>Gifts.  | 815 08               | 1,015 08                          |
| Mineralogy: Special Equipment Fund (gift)<br>Mining—Gift  |                      | 200 00<br>775 00                  |
| Political Science—Historical Reading Room<br>Equipment Fund:  |                      |                                   |
| Sale of Books<br>Chinese, Salaries (gift for 1902-03)   |                      | 76 29<br>3,000 00                 |
| Physiological Chemistry, Supplies (sales)   |                      | 800 72                            |
|   | 1                    | 5115,063 61                       |

#### MISCELLANEOUS RECEIPTS

#### AFFECTING PRINCIPAL OF TRUST FUNDS

| Center Fund:<br>From sale of property corner<br>Flatbush Ave. and Sterling<br>Place, Brooklyn\$<br>Less Brokerage and Legal Ex-<br>penses |                    |                      |                                       |
|---|--------------------|----------------------|---------------------------------------|
|   | 947 75             | \$44,052 25          |                                       |
| From sale of property No. 129<br>West 17th St., N. Y<br>Less Legal Expenses   | 10,500 00<br>30 25 | 10,469 75            | · · · · · · · · · · · · · · · · · · · |
| Class of 1848 Scholarship Fund:   | -                  |                      | \$54,522 00                           |
| Gift of an anonymous friend to<br>scholarship<br>George William Curtis Medals Fund  |                    |                      | 10,000 00                             |
| Gift from an associate of Georg<br>Curtis in the Civil Service Refe<br>to establish this fund   | orm Work,          |                      | 1,000 00                              |
| Dean Lung Fund:<br>Additional gifts from an anonym<br>for the Department of Chinese   |                    |                      | 113,000`'00                           |
| Philolexian Centennial Washington<br>Gift from the Philolexian Society<br>lish this fund  | y to estab-        | :                    | 1,000 00                              |
| Phœnix Legacy:<br>On account of one-third part of ary estate of the late Stephen<br>Phœnix  | n Whitney          |                      |                                       |
| Profit on sales of securities<br>Less Legal Expenses  | 475 00             | 150,008 44<br>500 00 |                                       |
|   |                    |                      | 149,508 <b>4</b> 4                    |
| AFFECTING INVESTME  | NT OF TRU          | IST FUNDS            |                                       |
| Center Fund:<br>On account of principal of bond<br>gage of Edmund H. Wright   |                    |                      | 1,00 <b>0 00</b>                      |
| Phœnix Legacy:<br>\$5000 Brooklyn Public Park 7<br>Bonds sold (book value)  |                    | 6,250 00             |                                       |
| Carried forward   |                    | \$6,250 00           | \$330,030 44                          |

| Brought forward   | \$6,250 | 00 \$330, <b>030</b> 44 |
|---|---------|-------------------------|
| \$3000 Menominee River Railroad Co.'s<br>Extension Bonds sold (book value)        | 3,450   |                         |
| Clark Scholarship Fund, School of Medicine:                                       |         | 9,700 00                |
| Bond and mortgage of Thomas F. Gray paid  |         | 10,000 00               |
| AFFECTING FUNDS FOR DESIGNATE   | D PURPO | DSES                    |
| Principal of Students' Loan Fund:<br>Interest received on deposits                | 85      | ; 09                    |
| Interest received on Students' Notes  |         | 70                      |
| Students' Loan Fund:  |         | 155 79                  |
| Students' Notes paid<br>Principal of Catherine Wolfe Bruce Fund:                  |         | 360 <b>00</b>           |
| From Dr. Geo. W. Hill as a gift to the De-  |         |                         |
| partment of Astronomy, and credited to this fund by request of Prof. Rees         | 1,000   | 00                      |
| Interest received on deposits   | 210     | 18 1,210 18             |
| Principal of Earl Hall Building Fund:   |         | -,                      |
| From William E. Dodge to complete the erection of Earl Hall                       | 19,540  | 38                      |
| Interest received on deposits   | 1,262   | -                       |
| Special Fund for Departments of Mining and  |         | 20,002 89               |
| Metallurgy Interest<br>Alumni Memorial Hall Gift:                                 |         | 486 03                  |
| From the Columbia College Alumni Associa-   |         |                         |
| tion towards the enlargement of Univer-<br>sity Hall Building                     |         | 811 25                  |
| Interest Fund, 1900–01:   |         | Ū                       |
| Balance of Subscriptions for Interest Ac-<br>count for 1900-01                    |         | 68,733 82               |
| Interest Fund, 1901–02:   |         |                         |
| On account of Subscriptions for Interest<br>Account for 1901–02                   |         | 25,250 00               |
| Gift for Interest Fund for the years 1902-08.<br>General Guarantee Fund, 1900-01: |         | 6,000 00                |
| Subscriptions for the deficiency in Income for                                    |         |                         |
| the year 1900–01  |         | 615 00                  |
| MISCELLANEOUS   |         |                         |
| Butler Mortgage:<br>General funds withdrawn from investment in                    |         |                         |
| portion of the Jacob D. Butler Mortgage.  |         | 12,000 00               |
| Carried forward   |         | \$486,155 40            |

| Brought forward                            | \$486,155 | 40         |
|--|-----------|------------|
| Bequest of the late Henry Villard          | 50,000    | 00         |
| Edward L. Stabler, gift                    | 1,200     |            |
| Summer School:                             | -,        |            |
| Surplus for the years 1900 and 1901        | 6,016     | 62         |
| Students' Ledger Account:                  | 0,910     | ~3         |
| Advance fees                               | 3,347     | 02         |
| Deposit Ledger Account:                    | 31347     | <b>9</b> ~ |
| Advance payments by students for material. | 176       | 72         |
| Key Deposit Account:                       | -/~       | 1-         |
| Advances for keys by students              | 263       | 05         |
| Premium Account, for premium on securities | 203       | ~3         |
| in the Center Fund marked off              | 27        | 40         |
|  |           |            |
|  | \$548,087 | 12         |

| 370                              | TREASURER 5 REPORT  |                 |
|----------------------------------|---|-----------------|
| From<br>Gifts, etc.              |   |                 |
| From<br>Income of<br>Trust Funds |   |                 |
| From<br>Income of<br>Corporation | 69  | 19,419 IO       |
| Total<br>Expenditure             | \$ 19,419 10  | 19,419 IO       |
| Expenditures<br>in Detail        | \$ 9,312 00<br>2,250 41<br>2,250 41<br>2,255 79<br>1,639 71<br>4,851 19<br>1,887 30<br>806 42<br>1,387 30<br>1,387 30<br>2,324 03<br>1,500 00<br>1,201 16<br>1,387 30<br>2,324 03<br>1,506 55<br>1,906 55<br>1,906 55<br>1,906 55<br>1,027 92<br>1,027 92<br>1,027 92<br>1,027 92<br>1,020 00   | 68,719 53       |
|                                  | General Expenses         BUUSINESS ADMINISTRATION:         Salaries.         Diffice Rent.         Contingent Expenses.         Clerk's Office, Sundries.         Clerk's Office, Sundries.         Clerk's Office, Sundries.         EDUCATIONAL ADMINISTRATION:         Salaries, School of Medicine.         Advertising.         Printing and Distributing President's Report.         Pateriang.         Pateriang.         Pateriang.         Pateriang.         Pateriang.         Pateriang.         Paterian of Supplies.         < | Carried forward |

CURRENT EXPENSES.

370

|                               |  | <b>♦1.751</b> 80  |  | I S  |  | I,751 95        |
|-------------------------------|--|---|--|--|--|-----------------|
|                               |  |   |  |  |  |                 |
| 19.419 10                     |  | 72 209 83   |  | 81,413 26  | 34,511 27  | 207,553 51      |
| 19,419 10                     |  | 73,901 08   |  | 81,413 41  | 34,511 27  | 209,305 46      |
| 68,719 53<br>100 00<br>700 00 |  |   | 7,499 55<br>7,496 52<br>496 22<br>498 18<br>35,679 98<br>2,139 22<br>1,399 28<br>3,996 61  |  | 1,500 00<br>2,499 84<br>1,989 76<br>6,998 76<br>6,998 76<br>1,199 25<br>2,449 55<br>2,365 00   |                 |
| Brought forward               | Printing and Postage on Catalogue, School of Medi-<br>cine | BUILDINGS AND GROUNDS (r16th St.):<br>Superintendent of Buildings and Grounds.<br>Water Rates.<br>Gas and Electricity.<br>Fuel. | Repairs and Fixtures.<br>Furmiture and Fixtures.<br>Uniforms.<br>Wages: Boiler House and Janitorial Service.<br>Boat House.<br>Changes in Library.<br>Special Repairs. | Fire Repairs.<br>Shrubs and Trees.<br>BUILDINGS AND GROUNDS (59th St.):<br>Wages: Boiler House and Janitorial Service. | Repairs to superimendent of buildings and Grounds.<br>Repairs and Fixtures.<br>Funture and Fixtures.<br>Gas and Electricity.<br>Cleaning.<br>Supering.<br>Water Rates. | Carried forward |

| From<br>Gifts, etc.              | \$1,751 95                         | 165 58               |                           |                                   |  |  | I,917 53              |
|----------------------------------|------------------------------------|----------------------|---------------------------|-----------------------------------|--|--|-----------------------|
| From<br>Income of<br>Trust Funds |                                    | \$12.500 OD          | 5,650 20                  | I,400 00                          |  |  | 19,550 00             |
| From<br>Income of<br>Corporation | \$207,553 51                       | 10,583 88            |                           |                                   | 2,050 00                                 |  | 241,654 92 220,187 39 |
| Total<br>Expenditure             | \$209,305 46 \$207,553 51          | 10,749 46            | 5,650 00                  | 1,400 00                          | 2,050 00                                 |  |                       |
| Expenditures<br>in Detail        | \$6,500 00<br>1,796 68<br>1,798 09 | 105 58               |                           |                                   | 800 00<br>1,000 00<br>250 00             | 36,919 29<br>9,968 60<br>2,246 57<br>47 20<br>47 20<br>1,684 12<br>3,975 23<br>3,375 23<br>3,375 23<br>3,375 23<br>1,684 12<br>1,684 12<br>1,684 12<br>1,684 12<br>169 90<br>169 90  | 57,795 42             |
|                                  | Brought forward                    | Supplies and Keparts | SLOANE MATERNITY HOSPITAL | JACOBI WARD IN ROOSEVELT HOSPITAL | CHAPEL:<br>Chaplain<br>Organist<br>Choir | LIBRARY:<br>Salaries.<br>Books and Binding<br>Incidentals.<br>Binding Manuscripts.<br>Educational Catalogue<br>Avery Architectural Collection.<br>Barmard Library Fund.<br>Cotheal Fund<br>Dean Lung Fund in Chinese<br>Dean Lung Fund in Chinese<br>Dean Law Book Thust Pund.<br>Law-Book Thust Pund. | Carried forward       |

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| 00   | 29   |                   |  | 29  |
| \$50   | 7,670 29   |                   |  | 520   |
| 241,654 92 220,187 39 19,550 00                            |  |                   |  | 317,191 43 271,960 42 27,220 29   |
| 39   | 49,189 72  | 31                |  | 42  |
| ,187   | ,189   | 2,583             |  | ,960  |
| 220  |  | 0                 |  | 27I   |
| 92   | 72,953 20  | 31                |  | 43  |
| ,654   | ,953   | 2,583             |  | ,191  |
| 241  | 72   | Q                 |  | 317   |
| 36<br>36   | 00<br>96<br>96<br>62<br>62<br>13   |                   |  | 00  |
| 57,795<br>1,923<br>5                                       | 16<br>76<br>64<br>144<br>350<br>1,022<br>3,375<br>7,838<br>7,838   |                   | 11,700<br>14,500<br>14,500<br>1,800<br>1,800<br>1,125<br>1,125<br>1,125<br>1,125<br>1,125<br>1,125<br>1,125<br>1,125<br>1,125<br>1,125<br>1,125<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150<br>1,150  | 38,550 00   |
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|  | hund.<br>ary, 1897   | :                 | PS AND PRIZES:<br>the Barnard.<br>Scholarships.<br>ps.<br>ips.<br>olarships, College.<br>olarships, College.   | •   |
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| Brought forward<br>etion of Parliament<br>Crimmins Collect | Mans<br>Disse<br>Disse<br>Disse<br>Disse<br>Lov<br>Lov<br>Trmer<br>Trmer<br>nd, 1<br>nd, 1<br>nd, 1<br>nd, 1   | FICE              | , sci<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Scholo<br>Sch | Carried forward   |
| Bro<br>etion   | Fun  | 5 OF              | HIPS<br>sisty<br>of f '7c'<br>of f   | Carr  |
| Brought forward  | Crimmins-Mansi Fund.<br>Lewisohn Dissertation Fund.<br>James Loe Fund.<br>William G. Low Fund.<br>Senff Collection in History, 1897<br>F. A. Schermerhorn Fund.<br>Special Fund, 1898.<br>Special Fund, 1990.<br>Special Fund, 1901. | ITUS              | LLOWSHIPS, SCHOLARSHIPS AND PRIZES:<br>University Fellowships<br>University Scholarships<br>Class of '7c Fellowships<br>Brooklyn Scholarships at Barnard.<br>Presidyn Scholarships<br>Berefactors' Scholarships<br>Beek Scholarships<br>Harper Scholarships<br>Harper Scholarships<br>Moffatt Scholarships<br>Harper Scholarships<br>Moffatt Scholarships<br>Moffatt Scholarships<br>Moffatt Scholarships<br>Moffatt Scholarships<br>Moffatt Scholarships<br>Moffatt Scholarships<br>Moffatt Scholarships<br>Moffatt Scholarships<br>Murni Association Scholarships, College<br>Alumni Competitive Scholarships, College.  |   |
| <u>Job</u>   | N N N N N N N N N N N N N N N N N N N  | EMERITUS OFFICERS | FELLOWSHIPS, SCHOLARSHIPS AND FRIZES<br>University Fellowships.<br>University Scholarships.<br>Class of '7c Fellowship.<br>Class of '7c Fellowships.<br>Brooklyn Scholarships at Barnard.<br>President's University Scholarships.<br>Beek Scholarship.<br>Beek Scholarship.<br>Faculty Scholarships.<br>Harper Scholarships.<br>Harper Scholarships.<br>Harper Scholarships.<br>Schermerhorn Scholarships.<br>Schermerhorn Scholarships.<br>Stuart Scholarship.<br>Schermerhorn Scholarships.<br>Stuart Scholarship.<br>Stuart Scholarsh  |   |
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the College of Physicians and 5 Association IIIIInrv LILE cnarged against allu Surgeons. See Balance Sheet.

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|                                   | ••••• ••• •••   |                      | 2,984 00  |  | 6,500 00                                |  | 4,653 59   | I,000 00  | I,000 00  | 5,453 59 I9,384 00 |
|-----------------------------------|---|----------------------|---|--|---|--|--|---|---|--------------------|
|                                   |   | •                    | 80<br>00<br>80<br>80                            |  | •<br>•<br>•                             |  |  | •   | •   | 1                  |
|                                   | \$ 7,171 87   | 22,683 50            | 13,058 26                                       | 12,546 87  | •                                       | I0,539 33  | 3,417 39   | 7,045 00  | 11,646 87   | 88,108 89          |
|                                   | \$ 8,171 87   | 29,583 50            | 16,842 26                                       | 12,546 67  | 6,500 00                                | IO,539 33  | 8,070 98   | 8,045 00  | .12,646 87  | II2,946 48         |
|                                   | \$ 8,100 00<br>71 87  | 29,520 00<br>63 50   | 16,608 26<br>50 00<br>184 00                    | 12,500 00<br>46 67                               |   | 10,500 00<br>39 33                               | 7,200 00<br>870 98                               | 8,000 00<br>45 00   | 12,449 96<br>196 91   |                    |
| Philosophy, Philology and Letters | COMPARATIVE LITERATURE:<br>Salaries<br>Departmental Appropriation | BNGLISH:<br>Salaries | GERMANIC LANGUAGES AND LITERATURES:<br>Salaries | GREEK:<br>Salaries<br>Departmental Appropriation | GREEK AND LATIN AT BARNARD:<br>Salaries | LATIN:<br>Salaries<br>Departmental Appropriation | MUSIC:<br>Salaries<br>Departmental Appropriation | ORIENTAL LANGUAGES:<br>Salaries<br>Departmental Appropriation | рнисоворну AND EDUCATION:<br>Salaries<br>Departmental Appropriation | Carried forward    |

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| From<br>Gifts, etc.              | \$19,384 oo                         | 2,500 00                               | 5,154 38  | \$27,038 38                | \$3,500 00   | 59 40  | 3,600 00  | 7,159 40            |
|----------------------------------|-------------------------------------|--|---|----------------------------|--|--|---|---------------------|
| From<br>Income of<br>Trust Funds |                                     | 2,871 21                               |   | \$8,324 80                 |  |  | 6,098 go  |                     |
| From<br>Income of<br>Corporation | \$112,946 48 \$88,108 89 \$5,453 59 | 5,628 76                               | 16,600 <b>00</b>  | \$145,700 83 \$110,337 65  | \$27,000 03  | 9,795 00                                       |   | 46,553 33 39,393 93 |
| Total<br>Expenditure             | \$112,946 48                        | 10,999 97                              | 21,754 38   | \$145,700 83               | \$27,000 03  | 9,854 40                                       | 9,698 90  | 46,553 33           |
| Expenditures<br>in Detail        |                                     | \$10,500 00<br>499 97                  | 21,300 00<br>102 13<br>352 25   |                            | 26,000 00<br>1,000 00<br>03  | 8,700 00<br>250 00<br>45 00<br>800 00<br>59 40 | 9,100 00<br>598 90                                |                     |
|                                  | Brought forward                     | Salaries<br>Departmental Appropriation | ROMANCE LANGUAGES AND LITERATURES:<br>Salaries<br>Departmental Appropriation<br>French Lecture Fund | Natural and Ezact Sciences | ARCHITECTURE:<br>Salaries<br>Departmental Appropriation<br>Models and Diagrams | ASTRONOMY:<br>Salaries                         | BOTANY:<br>Salaries<br>Departmental Appropriation | Carried forward     |

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|---------------------|--|--|---|---|---|-----------------------|
| 40                  | Ó5   |  | 52                                      | 10  | ŝ   | 66                    |
| 7,159 40            | 10.373 65  |  | 102                                     | 38  | 1,015 08  | 18,688 66             |
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|                     | 1,500 00   |  | ÷                                       | 1,000 00  | :   | 2,500 00              |
|                     | I,5  |  | ÷                                       | I,0   |   | 10                    |
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| 393                 | 36,985 25  |  | 13,793 12                               | 9,418 I8  | 22,983 75   | ,574                  |
| 46,553 33 39,393 93 | 36   |  | г3                                      | 6   | 22  | 143,762 89 122,574 23 |
| 33                  | 6  |  | 64                                      | 19  | 8<br>33   | 89                    |
| ,553                | 48,858 go  |  | 13,895 64                               | 10,456 IG   | 23,998 <sup>8</sup> 3   | ,762                  |
| 46                  | 4  |  | 13                                      | IC  | 5   | 143                   |
|                     | 00<br>00<br>00<br>00<br>00<br>00<br>00   | 00<br>03<br>02<br>02   | 43<br>04<br>00                          | 18<br>01  | 67<br>444<br>95<br>77<br>00   |                       |
|                     | 7,500 00<br>9,500 00<br>3,900 00<br>3,900 00<br>3,600 00<br>1,185 57<br>1,185 57<br>1,185 57<br>2,550 00<br>2,550 00<br>2,550 00   | 10,600 00<br>445 03<br>600 00<br>199 52<br>1,653 62  | 98 43<br>199 04<br>100 00               | 9,418 18<br>1,038 oi  | 15,586 67<br>499 44<br>2,012 95<br>299 77<br>5,600 00   |                       |
|                     | μ  |  |   |   |   | <br>                  |
| :                   | Salaries.<br>Salaries, General Chemistry.<br>Salaries, General Chemistry and Assaying<br>Salaries, Industrial Chemistry.<br>Salaries, Laboratory at 59th St.<br>Salaries, Laboratory at 59th St.<br>Salaries, Additional Servants.<br>Supplies.<br>Selaries at Barnard College.<br>Selaries at Barnard College.  | PIL ENGINEBRING:<br>Salaries<br>Departmental Appropriation<br>Assistance in Summer School of Surveying<br>Janitor in Summer School of Surveying<br>General Expenses at Summer School of Surveying<br>Repairing Instruments for Summer School of Sur- | veying                                  | BCTRICAL ENGINEERING:<br>Salaries                             | ECHANICAL ENGINEERING:<br>Salaries<br>Departmental Appropriation<br>Mechanical Laboratory and Summer School<br>Drawing.<br>Use of Teachers College Shops    | :                     |
| •                   |  | eyin 0f  | · · · ·                                 | · · · · · · · · · · · · · · · · · · ·                         | mmer School.  | :                     |
| •                   |  | ng.  | · · ·<br>· · ·                          | · ·<br>· ·  | <br>Iood  | •                     |
| •                   | Lessa J  | veyi<br>ng.<br>r Sc  | · · · ·                                 | · · · · · · · · · · · · · · · · · · ·                         | r Sc  | :                     |
| •                   | nd A   | Sur<br>Sur<br>Sur<br>Sur<br>Sur<br>Sur<br>Sur<br>Sur<br>Sur<br>Sur   | • • •                                   | • •   | nme   | :                     |
| Brought forward     | ry a<br>ry.<br>1 St.<br>900.   | Sur Scur Sur Sur   | ••••                                    | · · ·   | n.<br>Sur   |                       |
| :                   | stry<br>nist<br>nist<br>stry<br>59th<br>59th<br>vant<br>vant   | tion<br>tion<br>choic<br>ol of<br>for<br>for   | :::                                     | :<br>ation  | and<br>Shc  | ÷                     |
| rard                | Cherning Che | ppris<br>er S<br>cho<br>cho<br>surts   | urn.                                    | oprie   | RING<br>ory<br>lege   | Carried forward       |
| forw                | i Ch<br>Cal<br>Ch<br>Cal<br>Ch<br>Ch<br>Cal<br>Ch<br>Cal<br>Ch<br>Cal<br>Ch<br>Cal<br>Ch<br>Ch<br>Cal<br>Ch<br>Cal<br>Ch<br>Cal<br>Ch<br>Cal<br>Ch<br>Cal<br>Ch<br>Ch<br>Cal<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch<br>Ch   | G:<br>ppro<br>mm<br>er S<br>s at   | t F                                     | Ppro  | Dpro<br>Dpro  | J <b>r</b> wa         |
| ght                 | http://www.alara   | RIN<br>al A<br>D Su<br>mm<br>ense<br>ense  | veying<br>rovements at ]<br>t of Farm   | vgin<br>al A  | NGI)<br>al Á<br>Labo  | d fc                  |
| rou                 | And<br>Ind<br>Cen<br>And<br>And<br>Org<br>Org<br>Org<br>Org<br>Und   | NEE<br>Internet<br>Ce ir<br>Exp<br>Exp   | mer<br>Fan                              | L El  | L E<br>lent<br>cal ]  | arrie                 |
| B<br>TRY            | ries,<br>ries,<br>ries,<br>ries,<br>ries,<br>ries,<br>ries<br>ries<br>ries   | end<br>ries.<br>artm<br>stan<br>stan<br>stan<br>tor i<br>eral  | veyi<br>rove<br>: of                    | rica)<br>ries.  | NICA<br>ries.<br>Artin<br>tania<br>ving   | Ö                     |
| Br<br>CHEMISTRY:    | Salaries.<br>Salaries, General Chemistry.<br>Salaries, General Chemistry and Assaying<br>Salaries, Industrial Chemistry.<br>Salaries, Organic Chemistry.<br>Salaries, Laboratory at 59th St.<br>Salaries, Additional Servants.<br>Supplies.<br>Salaries at Barnard College.<br>Salaries at Barnard College.  | CIVIL ENGINEERING:<br>Salaries   | veying<br>Improvements<br>Rent of Farm. | BLECTRICAL ENGINEERING:<br>Salaries<br>Departmental Appropria | MECHANICAL ENGINEERING:<br>Salaries<br>Departmental Appropriation.<br>Mechanical Laboratory and Summer School.<br>Drawing.<br>Use of Teachers College Shops |                       |
| CH                  |  | E C  |   | EL  | M   |                       |

|                                  | 66                                 |                                | 8  |   |                         | 69            | 00                           | N  | 95                              | 8  | 26                    |
|----------------------------------|------------------------------------|--------------------------------|--|---|-------------------------|---------------|------------------------------|--|---------------------------------|--|-----------------------|
| From<br>Gifts, etc.              | \$18,688 66                        |                                | 6,100 00   |   |                         | 2,352 69      | 90 001                       |  | 2,610                           | 2,300 00   | 32,252 26             |
| Gif                              | \$18                               |                                | 9  |   |                         | 0             |                              |  | 0                               | 6  | 32                    |
| of<br>nds                        | 00                                 |                                | •  | 8   |                         | 8             | :                            |  | :                               | 8  | 8                     |
| From<br>Income of<br>Trust Funds | \$2,500 00                         |                                |  | 250 00  |                         | 750 00        |                              |  |                                 | 500 00   | 4,000 00              |
| 15E                              |                                    |                                | :  |   |                         |               | :                            |  | :                               |  |                       |
| tion 1                           | 4 23                               | 10,200 00                      | 17,373 85  | 10,440 23   |                         | 8,099 39      | 6,199 92                     |  | II,850 00                       | 19,349 99  | 7 61                  |
| From<br>Income of<br>Corporation | 2,57.                              | 0,20                           | 7.37   | 0,440   |                         | 8,00          | 6,19                         |  | 1,85                            | 9,34   | 6,08                  |
|                                  | \$143,762 89 \$122,574 23          |                                |  |   |                         |               |                              |  |                                 |  | 242,339 87 206,087 61 |
| liture                           | 2 80                               | ŏ                              | 3 85   | 6   |                         | 8<br>0<br>0   | 6<br>88                      |  | 36 o                            | 56 6   | 9 8                   |
| Total<br>Expenditure             | 13,76                              | 10,200 00                      | 23,473   | 10,690 23   |                         | 11,202 08     | 6,399 88                     |  | 14,460 95                       | 22,149 99  | 2,33                  |
|                                  | 71\$                               |                                |  | 1   |                         |               |                              | 1  |                                 |  | 34                    |
| itures<br>tail                   |                                    | ,500 00<br>500 00<br>200 00    | 0 00<br>3 85   | 0 00<br>37<br>86  | 7,700 00<br>1,149 39    | 5 47<br>31    | 700 00<br>499 92<br>199 96   | 0000   | 32                              | 00 00  |                       |
| Expenditures<br>in Detail        |                                    | \$9,500 00<br>500 00<br>200 00 | 23,400 00<br>73 85                                     | 10,600 00<br>39 37<br>50 86                                       | 7,700<br>1,149          | 2,340         | 5,700 00<br>499 92<br>199 96 | 10,600 00<br>1,250 00<br>2.610 63                                |                                 | 499 99<br>21,650 00                              |                       |
| Ŕ                                | .                                  |                                |  |   |                         |               |                              | <u>н</u><br>   | <u> </u>                        |  |                       |
|                                  |                                    |                                |  |   | ::                      |               |                              |  | :                               |  | Carried forward       |
|                                  |                                    |                                |  |   | ::                      |               |                              |  | ÷                               |  | :                     |
|                                  |                                    |                                |  |   | ::                      |               |                              |  | ÷                               |  | :                     |
|                                  |                                    |                                |  |   |                         |               |                              |  |                                 |  | :                     |
|                                  | :                                  |                                |  |   |                         | : : :         |                              |  | ory.                            |  | :                     |
|                                  |                                    | uo ,                           | uo   | on  | u                       | 1906          | on                           | u .  | orat                            | uo   | ÷                     |
|                                  | d                                  | iati                           | iati   | Appropriation.  | iati                    | nd,<br>t      | iati<br>nd.                  | iati   | Lab                             | iati   |                       |
|                                  | War                                | ropi<br>Geo                    | ropi   | ropi  | ropı                    | Fu            | ropi<br>Fu                   | ropi   | of                              | ropi   | vard                  |
|                                  | tor<br>LEC                         | App<br>1 in                    | Åpp  | App   | App                     | nent<br>uipi  | App<br>nent                  | Арр  | nent                            | App  | forv                  |
|                                  | Brought forward.<br>AND PALÆONTOLO | tal                            | s:<br>ital   | ital  | ital.                   | uipr.<br>/ Eq | <br>Ital<br>uipr             | nd.  | uipr                            | ital.  | ried                  |
|                                  | Bro                                | tmer<br>er Sc                  | ATIC:<br>s   | cs:<br>ss<br>atus   | RGY<br>S                | 1 Eq          | oGY<br>SS                    | tmer<br>Fu   | 1 Eq                            | ss   | Car                   |
|                                  | Brought forward                    | Salaries                       | MATHEMATICS:<br>Salaries<br>Departmental Appropriation | MECHANICS:<br>Salaries<br>Departmental Appropriation<br>Apparatus | METALLURGY:<br>Salaries | Special Fund  | MINBRALOGY:                  | NING:<br>Salaries<br>Departmental Appropriation<br>Special Fund. | Special Equipment of Laboratory | xsucs.<br>Salaries<br>Departmental Appropriation |                       |
|                                  | GEOI                               | Su Dsa                         | MATI<br>Sa<br>De                                       | MECI<br>Sa<br>De<br>Af  | MET.<br>De              | r S P         | MINE<br>Sa<br>Sp             | MINING:<br>Salari<br>Depar<br>Specié                             | SF                              | PHYSICS<br>Salari<br>Depar                       |                       |
|                                  |                                    |                                |  |   |                         |               |                              |  |                                 |  |                       |

| Brought forward   |                       | 242,339 87                | 206,087 61              | 242,339 87 206,087 61 4,000 00 | 32,252 26   |
|---|-----------------------|---------------------------|-------------------------|--------------------------------|-------------|
| s.<br>mental Appropriation  | 16,750 00<br>1,197 37 |                           |                         |                                |             |
|   | 100 00<br>400 00      |                           |                         |                                |             |
| Special Fund, 1901<br>Special Fund for Zoölogical Equipment, 1901 | 355 00<br>19          | 18,802 56                 | 12,544 29               | 3,403 08                       | 2,855 19    |
|   |                       | \$261,142 43 \$218,631 90 | \$218,631 9c            | \$7,403 08                     | \$35,107 45 |
| School of Law   |                       |                           |                         |                                |             |
| Salaries  | 37,250 00<br>99 IS    | \$37,349 IS               | \$37,349 15             |                                |             |
| School of Political Science                                       |                       |                           |                         |                                |             |
| priations:  | 63,688 82             |                           |                         |                                |             |
| Public Law Political Economy                                      | 14 61<br>50 01        |                           |                         |                                |             |
| History Equipment of Statistical Laboratory                       | 50 00<br>270 81       |                           |                         |                                |             |
| Histórical Reading-Room Equipment Fund                            | 4,710 73              | \$68,893 98               | \$68,893 98 \$51,783 25 |                                | \$17,110 73 |
| Department of Chinese   |                       |                           |                         |                                |             |
| Investigations and Lectures                                       | 1,402 95<br>85 00     | \$1,487 95                | \$1,487 95              | \$1,487 95                     |             |
| School of Medicine  |                       |                           |                         |                                |             |
| ANATOMY:  |                       |                           |                         |                                |             |
| Salaries  | 18,080 00<br>3,400 60 | \$21,480 60               | \$21,480 60 \$21,480 60 |                                |             |
| Carried forward   |                       | 21,480 60                 | 21,480 60 21,480 60     |                                |             |

|  | Expenditures<br>in Detail       | Total<br>Expenditure | From<br>Income of<br>Corporation | From<br>Income of<br>Trust Funds        | From<br>Gifts, etc. |
|--|---------------------------------|----------------------|----------------------------------|---|---------------------|
| Brought forward  |                                 | \$21,480 60          | \$21,480 60                      |   |                     |
| al Helper)   | \$ 6,800 00<br>2,182 14         | 8,982 14             | 8,181 42                         | -                                       | \$800 72            |
| CLINICAL INSTRUCTION:<br>Salaries  |                                 | 14,200 00            | 14,200 00                        |   |                     |
| MATERIA MEDICA AND THERAPEUTICS:<br>Salaries<br>Departmental Appropriation         | 7,500 00                        | 7,507 45             | 7,507 45                         |   |                     |
| OBSTETRICS AND GYNECOLOGY:<br>Salaries<br>Departmental Appropriation               | 12,300 00<br>85 49              | 12,385 49            | I2,385 49                        |   |                     |
| PATHOLOGY:<br>Salaries.<br>Departmental Appropriation                              | 28,130 27<br>2,399 99<br>198 90 | 30,729 I <b>6</b>    | 30,729 16                        |   |                     |
| PHYSIOLOGY:<br>Salaries<br>Departmental Appropriation<br>Marine Table, Wood's Hole | 12,700 00<br>611 11<br>100 00   | 13,411 II            | 13,411 11                        |   |                     |
| PRACTICE OF MEDICINE:<br>Salaries  |                                 | 13,300 00            | 13,300 00                        |   |                     |
| SURGERY:<br>Salaries<br>Departmental Appropriation                                 | 12,500 00<br>250 00             | 12,750 00            | 12,750 00                        |   |                     |
|  |                                 | \$134,745 95         | \$134,745 95 \$133,945 23        | ••••••••••••••••••••••••••••••••••••••• | \$ 800 72           |

|   | From Income<br>of the<br>Corporation  | From Income<br>of<br>Trust Funds  | From Gifts,<br>Receipts, etc.        | Totals         |
|---|---|---|--------------------------------------|----------------|
| General Expenses                          | \$310,543 42  | \$42,462 04   | \$27,710 72                          | \$380,716 18   |
| Philosophy, Philology, and Letters        | 110,337 65  | 8,324 80  | 27,038 38                            | 145,700 83     |
| Natural and Exact Sciences                | 218,631 90  | 7,403 08  | 35,107 45                            | 261,142 43     |
| School of Law                             | 37,349 15   | •<br>•<br>•<br>•<br>•<br>•  | ·<br>·<br>·<br>·<br>·<br>·<br>·<br>· | 37,349 IS      |
| School of Political Science               | 51,783 25   | •<br>•<br>•<br>•<br>•<br>•  | 17,110 73                            | 68,893 98      |
| Department of Chinese                     |   | 1,487 95  |                                      | I,487 95       |
| School of Medicine                        | I33,945 23  | •   | 800 72                               | 134,745 95     |
| Total Payments from Income of Corporation | \$862,590 60  |   |                                      |                |
| Total Payments from Income of Trust Funds | ·<br>·<br>·<br>·<br>·<br>·  | \$59,677 87   |                                      |                |
| Total Payments from Gifts, Receipts, etc  | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- |   | \$107,768 00                         |                |
| Total Current Expenses                    | •<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | •<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• |                                      | \$1,030,036 47 |

SUMMARY OF SCHEDULE 6

TREASURER'S REPORT

### SUMMARY OF INCOME AND OPERATING EXPENSES

#### INCOME

Income of the Corporation (Schedule 3, page 10)......\$869,338 59

#### OPERATING EXPENSES

Items provided out of the General Funds of the Corporation (Summary of Schedule 6, second column, page 27) 862,590 60

Excess Income for year ending June 30, 1902..... \$6,747 99

#### INTEREST ACCOUNT

| INTEREST PAID, AS FOLLOWS:  |          |       |               |   |
|---|----------|-------|---------------|---|
| On Bloomingdale Site Mortgage   | \$35,000 | 00    |               |   |
| On Columbia College 3 % Mortgage Gold                                       | 00       |       |               |   |
| Bonds   | 57,150   | 00    |               |   |
| On Columbia College Notes   | 31,653   | I 2   |               |   |
| On Williamsbridge Property Mortgage   | 1,920    | 00    |               |   |
| On Special Fund for Departments of Mining                                   |          |       |               |   |
| and Metallurgy  | 486      | 03    |               |   |
| On Uninvested Trust Funds   | 206      | ~ ~   | C- 26 624 - 5 | 5 |
| On Onnivested Hust Funds  | 390      | 03    | \$126,605 18  | ) |
|   |          |       |               |   |
| LESS INTEREST RECEIVED, AS FOLLOWS:   |          |       |               |   |
| On Purchase Money Mortgage on Wheelock                                      |          |       |               |   |
| Property, made by Jacob D. Butler (less                                     |          |       |               |   |
| amount apportioned to various Trust   |          |       |               |   |
| Funds)  | 304      | -     |               |   |
| On Deposits of General Funds  | 2,376    |       |               |   |
| On Deposits of Special Funds<br>Accrued Interest on Portion of Butler Mort- | I,I2I    | 42    |               |   |
| gage transferred to the Dean Lung   |          |       |               |   |
| Fund  | 76       | 00    | 3,878 62      | 2 |
|   |          |       |               |   |
|   |          |       | 122,726 50    | 5 |
| DEDUCT INTEREST APPORTIONED TO SPECIAL                                      |          |       |               |   |
| REAL ESTATE ACCOUNT, AS FOLLOWS:  |          |       |               |   |
| Williamsbridge Property   | 4,845    | 98    |               |   |
| General Society Properties  | 13,210   | · · · |               |   |
| Gaillard-Loubat Library Endowment Fund.                                     | 6,083    | 58    | 24,140 39     | 9 |
|   |          |       | *\$98,586 1   | 7 |
|   |          |       |               | = |

\* The Interest Fund, 1901-02, is applicable to the reduction of this amount.

## SPECIAL REAL-ESTATE ACCOUNT

| WILLIAMSBRIDGE PROPERTY:                     |            |         |    |                   |
|--|------------|---------|----|-------------------|
| Interest                                     | \$4,845 08 |         |    |                   |
| Taxes and Water Rates                        | 1,594 32   |         |    |                   |
| Insurance                                    | 138 93     |         |    |                   |
| Caretaker                                    | 600 00     |         |    |                   |
| Sundries                                     | 173 72     | \$7,352 | 95 |                   |
| Less Rent of Oval                            |            | 780     | 00 | \$6,572 95        |
| GENERAL SOCIETY PROPERTIES:                  |            |         |    |                   |
| Interest                                     | 13,210 83  |         |    |                   |
| Taxes and Water Rates                        | 3,559 40   |         |    |                   |
| Insurance                                    | 278 15     |         |    |                   |
| Agent's Commissions                          | 187 44     |         |    |                   |
| Caretaker (No. 18 East 16th St).             | 480 00     |         |    |                   |
| Sundries                                     | 544 60     | 18,260  | 42 |                   |
| Less Gross Rents                             |            | 7,498   | 10 | 10,762 3 <b>2</b> |
| GAILLARD-LOUBAT LIBRARY EN-<br>DOWMENT FUND: |            |         |    |                   |
| Payments to Joseph F. Loubat                 | under An-  |         |    |                   |
| nuity Agreement                              | 60,000 00  |         |    |                   |
| Interest                                     | 6,083 58   |         |    |                   |
| Taxes and Water Rent                         | 17,558 17  |         |    |                   |
| Insurance                                    | 6,434 37   |         |    |                   |
| Agent's Commissions                          | 1,326 16   |         |    |                   |
| Sundries                                     | 9,048 92   | 100,451 | 20 |                   |
| Town when the face a big                     |            |         |    |                   |
| Less gross rents from Nos.                   |            |         | 6. |                   |
| 503–511 Broadway, N.Y.                       |            | 53,040  | 01 | 47,404 59         |
|  |            |         |    | \$64,739 86       |
|  |            |         |    |                   |

# TREASURER'S REPORT

### MISCELLANEOUS PAYMENTS

| AFFECTING INVESTMENT OF TRUST FUNDS:                                       |           |    |
|--|-----------|----|
| Center Fund.   |           |    |
| Invested in Bond and Mortgage of   |           |    |
| Frank Maunsell, on property cor-   |           |    |
| ner Flatbush Ave. and Sterling   |           |    |
| Place, Brooklyn  | \$35,000  | 00 |
| Class of 1848 Scholarship Fund.  |           |    |
| Invested in 32 shares Atlanta & Char-                                      |           |    |
| lotte Air Line Railroad Co.'s stock  |           |    |
| (a) $171\frac{1}{8}$   | 5,476     | 00 |
| Dean Lung Fund.  |           |    |
| Invested in \$50,000 Chesapeake & Ohio                                     |           |    |
| Railroad Co.'s $4\frac{1}{2}$ % General Mort-                              |           |    |
| gage Bonds, due 1992 \$53,987 50<br>Invested in 268 shares Atlanta & Char- | •         |    |
| lotte Air Line Railroad Co.'s stock  |           |    |
| $@ 171\frac{1}{8} \dots 45,861 50$   |           |    |
| Invested in portion of Butler Mortgage. 12,000 oc                          |           | 00 |
|  | -         | 00 |
| Philolexian Centennial Washington Prize                                    |           |    |
| Fund.  |           |    |
| Invested in \$1000 Chesapeake & Ohio                                       |           |    |
| Railroad Co.'s (Craig Valley Branch)                                       |           |    |
| 5 % First Mortgage Bond, due 1940<br>Phœnix Legacy.                        | 1,000     | 00 |
| Invested in various stocks and bonds.                                      | 150 110   |    |
| invested in various stocks and bonds                                       | 153,112   | 54 |
| AFFECTING FUNDS FOR DESIGNATED PURPOSES:                                   |           |    |
| Students Loan Fund.  |           |    |
| Loans, 1901–02, to students on their                                       |           |    |
| notes  | 200       | 00 |
| Principal of Catherine Wolfe Bruce Fund.                                   |           |    |
| Payments to Prof. J. K. Rees for De-                                       |           |    |
| partment of Astronomy  | 1,400     | 00 |
| Carried forward  | \$308,037 | 54 |
|  | 0 - 01    | 27 |

TREASURER'S REPORT

| Brought forward                        |             |    | \$308,037 | 54 |
|--|-------------|----|-----------|----|
| CONSTRUCTION AND EQUIPMENT:            |             |    |           |    |
| Earl Hall.                             |             |    |           |    |
| Construction \$110,                    | 24          | 04 |           |    |
| Staging                                | 364         | 39 |           |    |
| Steam Heating 17,                      | 747         | 00 |           |    |
| Electric Wiring and Ventilating 4,     | 450         | 00 |           |    |
|  | 244         | 05 |           |    |
| Painting and Decorating                | 850         | 00 |           |    |
|  | 277         | 21 |           |    |
|  | <u>)</u> 24 | 89 |           |    |
| Consulting Engineer, Commission        | 440         | 00 |           |    |
| Electrical Engineer, Commission        | 222         | 50 | 140,544   | 08 |
| University Hall, Equipment.            |             |    |           |    |
| Expended to date                       |             |    | 7,094     | 61 |
| MISCELLANEOUS:                         |             |    |           |    |
| Columbia College Notes.                |             |    |           |    |
| Amount paid in reduction of outstand-  |             |    |           |    |
| ing debt                               |             |    | 50,000    | 00 |
| Summer Session, 1901.                  |             |    |           |    |
| Expenditures in 1901–02 for account of |             |    |           |    |
| Summer Session, 1901                   |             |    | 1,302     | 91 |
| Summer Session, 1902.                  |             |    |           |    |
| Expended in 1901-02 for account of     |             |    |           |    |
| Summer Session, 1902                   |             |    | 862       | 74 |
| Students' Ledger, School of Medicine.  |             |    |           |    |
| Over-payment in 1900-01 by students,   |             |    |           |    |
| returned                               |             |    | 50        | 00 |
|  |             |    | \$107 801 | 88 |

\$507,891 88

386

,

# PRINCIPAL OF TRUST FUNDS

For investments, see Schedule 13.

|                              | Principa    | al         | Invest    | ed  | Uninve                | sted |
|------------------------------|-------------|------------|-----------|-----|-----------------------|------|
| Avery Architectural Fund     | \$ 30,000   |            | \$ 30,000 | 00  |                       |      |
| Barnard Fellowship Fund      | 10,000      |            | 10,000    |     |                       |      |
| Barnard Library Fund         | 59,501      |            | 59,501    |     |                       |      |
| Margaret Barnard Fund        | 16,231      |            | 16,231    |     |                       |      |
| Beck Prize Fund.             | 8,000       |            | 8,000     |     |                       |      |
| Beck Scholarship Fund        | 2,000       |            | 2,000     |     |                       |      |
| Bennett Prize Fund           | 1,000       |            | 1,000     |     |                       |      |
| Bunner Prize Fund            | 1,000       |            | 1,000     |     |                       |      |
| Campbell Scholarship Fund.   | 6,000       |            | 6,000     |     |                       |      |
| Center Fund                  | 178,046     |            |           |     | \$20,522              | 00   |
| Chanler Prize Fund           | 1,000       |            | 1,000     |     | <i>*-•</i> , <i>j</i> |      |
| Class of 1848 Scholarship    | .,          |            | -,        |     |                       |      |
| Fund                         | 10,000      | 00         | 5,476     | 00  | 4,524                 | 00   |
| Columbia Fellowship Fund     | 13,000      |            | 13,000    |     | 413-4                 |      |
| Cotheal Fund                 | 6,000       |            | 6,000     |     |                       |      |
| Curtis Fellowship Fund       | 10,000      |            | 10,000    |     |                       |      |
| Curtis Medals Fund           | 1,000       |            | ,         |     | 1,000                 | 00   |
| DaCosta Professorship Fund.  | 86,576      |            | 86,576    | 83  | -,                    |      |
| Dean Lung Professorship      | 00,570      | 05         |           | ັງ  |                       |      |
| Fund                         | 213,000     | 00         | 211,849   | 00  | 1,151                 | 00   |
| Drisler Classical Fund       | 10,000      |            | 10,000    |     | -,-,-                 |      |
| Dyckman Fund                 | 10.000      |            | 10,000    |     |                       |      |
| Eaton Professorship Fund     | 3,055       |            | 3,055     |     |                       |      |
| Gebhard Fund                 | 20,000      |            | 20,000    |     |                       |      |
| German Lecture Fund          | 1,000       |            | 1,000     |     |                       |      |
| Illig Fund                   | 2,000       |            | 2,000     |     |                       |      |
| Law-Book Trust Fund          | 4,250       |            | 4,250     |     |                       |      |
| Loubat Fund                  | 7,000       |            | 7,000     |     |                       |      |
| McKim Fellowship Fund        | 20,000      |            | 20,000    |     |                       |      |
| Member of Class of '85 Fund. | 1,050       |            | 1,050     |     |                       |      |
| Moffatt Scholarship Fund     | 2,000       |            | 2,000     |     |                       |      |
| Mosenthal Fellowship Fund.   | 7,500       |            | 7,500     |     |                       |      |
| Perkins Fellowship Fund      | 5,700       |            | 5,700     |     |                       |      |
| Philolexian Centennial Wash- | 0.1         |            |           |     |                       |      |
| ington Prize Fund            | I ,000      | 00         | 1,000     | 00  |                       |      |
| Phœnix Legacy                | 149,508     | <b>4</b> 4 | 143,412   | 54  | 6,095                 | 90   |
| Proudfit Fellowship Fund in  |             |            |           | ÷ . |                       | ·    |
| Letters                      | 13,875      | 00         | 13,875    | 00  |                       |      |
| Pulitzer Scholarship Fund    | 50,448      | 75         | 50,448    | 75  |                       |      |
| Schermerhorn Scholarship     | -           |            | -         |     |                       |      |
| Fund                         | 5,000       | 00         | 5,000     | 00  |                       |      |
| Schiff Fellowship Fund       | 15,000      | 00         | 15,000    | 00  |                       |      |
| Schurz Fellowship Fund       | 10,000      | 00         | 10,000    | 00  |                       |      |
| Schurz Library Fund          | 10,000      | 00         | 10,000    | 00  |                       |      |
| Seidl Fund                   | 12,000      |            | 12,000    |     |                       |      |
| Stuart Scholarship Fund      | 6,000       | 00         | 6,000     | 00  |                       |      |
|                              |             |            |           |     |                       |      |
| Carried forward              | \$1,018,744 | 62         | \$985,451 | 72  | \$33,292              | 90   |
|                              |             |            |           |     |                       |      |

# PRINCIPAL OF TRUST FUNDS-Continued

|                            | Principa    | Investe | đ           | Uninves | sted     |    |
|----------------------------|-------------|---------|-------------|---------|----------|----|
| Brought forward            |             | 62      | \$985,451   | 72      | \$33,292 | 90 |
| Trowbridge Fellowship Fund | 10,000      | 00      | 10,000      | 00      | 00. 1    | -  |
| Trust Fund for Psychology. | 100,000     | 00      | 100,000     | 00      |          |    |
| Tyndall Fellowship Fund    |             | 50      | 10,945      | 50      |          |    |
| Waring Fund (for Mrs. War- |             |         |             |         |          |    |
| ing)                       |             | 00      | 50,000      | 00      |          |    |
| Waring Fund (for Miss War- |             |         |             |         |          |    |
| ing)                       | 50,000      | 00      | 50,000      | 00      |          |    |
|                            | \$1,239,690 | 12      | \$1,206,397 | 22      | \$33,292 | 90 |

### SCHOOL OF MEDICINE:

| Clark Scholarship Fund      | . \$14,000  | 00 | \$ 4,000    | 00       | \$10,000 00 |
|-----------------------------|-------------|----|-------------|----------|-------------|
| Harsen Prize Fund           |             | 10 | 31,114      | 10       |             |
| Jacobi Ward Fund            |             | 00 | 50,000      | 00       |             |
| Proudfit Fellowship Fund in | 1           |    |             |          |             |
| Medicine                    | . 13,875    |    | 13,875      |          |             |
| Smith Prize Fund            |             |    | 2,337       |          |             |
| Stevens Prize Fund          |             | 88 | 1,899       | 88       |             |
| Sloane Maternity Hospita    |             |    |             |          |             |
| Fund.                       |             | 00 | 250,000     | 00       |             |
| Vanderbilt Clinic Endow     |             |    |             |          |             |
| ment Fund                   | . 115,000   | 00 | 115,000     | 00       |             |
|                             | \$478,226   | 79 | \$468,226   | 79       | \$10,000 00 |
|                             |             |    |             | <u> </u> |             |
|                             | \$1,717,916 | 91 | \$1,674,624 | 01       | \$43,292 90 |
|                             |             |    |             |          |             |

### INVESTMENT OF TRUST FUNDS

June 30, 1902

### AVERY ARCHITECTURAL FUND: '

- Gift of Samuel P. Avery and Mary Ogden Avery in memory of their deceased son, Henry Ogden Avery. The income of the fund to be applied to the purchase of books relating to architecture, decorations, and allied arts. Established in 1890.
- \$15,000. Lehigh Valley Railroad Co.'s 4<sup>1</sup>/<sub>2</sub> % First Mortgage Bonds, due 1940..
- \$5,000. Northern Pacific Railroad Co.'s Prior Lien Railway and Land Grant 4 % Gold Bonds, due 1997.....
- Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 4 %....

#### BARNARD FELLOWSHIP FUND:

- Legacy from the late President Barnard (who died in 1889), to support a fellowship to be entitled the "Barnard Fellowship for Encouraging Scientific Research."
- Certificate No. 68, Series 898, issued by the Lawyers' Mortgage Insurance Company, secured by Bond and Mortgage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or before September 27, 1904, at 4 %.....

BARNARD LIBRARY FUND:

The residuary estate of the late President Barnard was left to the Trustees of Columbia College to constitute a fund under the name of the "Barnard Fund for the Increase of the Library," the income of which is to be devoted to the purchase of books, especially those relating to physical or astronomical science; but out of the income of this fund so much as may be necessary is to be applied in procuring a gold medal of the bullion value of not less than \$200, to be styled the "Barnard Medal for Meritorious Service to Science," to be awarded every five

Carried forward.....

\$15,000 00

5,000 00

10,000 00 \$30,000 00

10,000 00

\$40,000 00

| Brought forward   |          |    | \$40,000       | 00 |
|---|----------|----|----------------|----|
| years on the judgment of the National<br>Academy of Science of the United<br>States. The medal will be next<br>awarded in June, 1905.   |          |    |                |    |
| \$11,000. Buffalo, Rochester & Pitts-<br>burg Railroad Co.'s 5 % General  |          |    |                |    |
| Mortgage Gold Bonds, due 1937<br>\$10,000. Illinois Central Railroad Co.'s  | \$10,960 | 57 |                |    |
| 4 % Bonds, due 1953<br>Mortgage Deed of Almira Hopkins Spen-<br>cer on property at Litchfield, Con-<br>necticut, to secure a promissory note<br>of Almira Hopkins Spencer and Linus   | 7,950    | 67 |                |    |
| P. Bissell for \$3,500, at 5 %<br>\$35,000 Columbia College 3 % Mort-   | 3,500    | 00 |                |    |
| gage Gold Bonds, due 1909<br>Interest in Bond and Mortgage of Jacob<br>D. Butler for \$250,000 on "Wheelock<br>Property," 161st Street and Broad-<br>way, Borough of Manhattan, due 1904,   | 35,000   | 00 |                |    |
| at 4 %  | 2,090    | 40 | 59 <b>,501</b> | 64 |
| MARGARET BARNARD FUND:  |          |    |                |    |
| The residuary estate of the late Margaret<br>Barnard (who died in 1889), widow of<br>the late President Barnard, was left to<br>the Trustees of Columbia College "to<br>augment the sum left by my late hus-<br>band."  |          |    |                |    |
| <ul> <li>\$16,000. Columbia College 3 % Mort-<br/>gage Gold Bonds, due 1909</li> <li>Interest in Bond and Mortgage of Jacob<br/>D. Butler for \$250,000 on "Wheelock<br/>Property," 161st Street and Broad-<br/>way, Borough of Manhattan, due 1904,</li> </ul> | 16,000   | 00 |                |    |
| at 4 %  | 231      | 67 | 16,231         | 67 |
|   |          |    |                |    |

### BECK FUNDS:

The late Charles Bathgate Beck (who died in 1894) bequeathed the sum of \$10,000 to be applied as follows: \$2,000 to found one free scholarship, the income to be applied "to the free yearly tuition and education in said College of one student forever, under such terms and conditions as the rules of said College and said Trustees shall prescribe." The income of the remaining \$8,000 to be used for an annual prize "to the student in the Law School who shall pass the best examination in Real Estate Law."

| Carried forward |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|

\$115,733 31

BECK SCHOLARSHIP FUND

Lehigh Valley Terminal Rail-\$2.000. road Co.'s 5 % First Mortgage Gold Bonds, due 1940..... \$2,000 00

#### BECK PRIZE FUND

|      | Lehigh Valley   |               |
|------|-----------------|---------------|
| road | Co.'s 5 % First | Mortgage Gold |
| Bond | s, due 1940     |               |

### BENNETT PRIZE FUND:

- Gift of James Gordon Bennett. The Income of the Fund, or a medal of equal value, to be given for an "essay in English Prose upon some subject of contemporaneous interest in the domestic or foreign policy of the United States.'
- Established in 1893. \$1,000. West Shore Railroad Co.'s 4 % First Mortgage Bond, due 2361.....

### BUNNER PRIZE FUND:

- Gift of friends of the late Henry Cuyler Bunner The income of the Fund to be used to provide every year the "H. C. Bunner Medal," to be given to the student who shall present the best essay on an assigned subject in American
- Literature. Established in 1896. Certificate No. 77, Series 898, issued by the Lawyers' Mortgage Insurance Co., secured by Bond and Mortgage of John T. Williams on property on Church Street, near White Street, Borough of Manhattan, due on or before September 27, 1904, at 4 %.....

#### CAMPBELL SCHOLARSHIP FUND:

- Gifts of \$3,000 each from Miss Maria L. Campbell and Miss Catharine B. Campbell, for the establishment of two scholarships in the College, in memory of Robert B. Campbell, of the Class of 1844, and Henry P. Campbell, of the Class of 1847.
- Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 4 %.....

Carried forward.....

8,000 00 10,000 00

1,000 00

1,000 00

6,000 00

\$133,733 31

391

\$115,733 31

Brought forward..... \$133,733 31

CENTER FUND:

| Gift of Mary E. Ludlow, in memory of     |
|--|
| her son, the late Robert Center. The     |
| income of the Fund to be applied         |
| either to the salary of a Professorship  |
| of Music, or other instructors in music, |
| or to Fellowships or Scholarships in     |
| Music, or to be used in any one or more  |
| of these ways or such other ways as      |
| shall in the judgment of the Trustees    |
| tend most effectively to elevate the     |
| standard of musical instruction in the   |
| United States, and to offer the most     |
| favorable opportunities for acquiring    |
| instruction of the higher order. Es-     |
| tablished in 1896.                       |

| tablished in 1896.                        |         |    |         |    |
|---|---------|----|---------|----|
| \$4,000. Belleville and Carondelet Rail-  |         |    |         |    |
| road Co.'s 6 % First Mortgage Bonds,      |         |    |         |    |
| due 1923                                  | \$4,574 | 00 |         |    |
| \$6,000. Georgia Pacific Railroad Co.'s   |         |    |         |    |
| 6 % First Mortgage Bonds, due 1922        | 6,885   | 00 |         |    |
| \$75,000. Columbia College 3 % Mortgage   | -,J     |    |         |    |
| Gold Bonds, due 1909                      | 75,000  | 00 |         |    |
| \$16,000. Northern Pacific Railroad Co.'s | 75,000  |    |         |    |
| Prior Lien Railway and Land Grant         |         |    |         |    |
| 4 % Gold Bonds, due 1997                  | 16,000  | 00 |         |    |
| Bond and Mortgage of Edmund H.            | 10,000  |    |         |    |
| Wright on property on Schenectady         |         |    |         |    |
| Avenue, Borough of Brooklyn, due          |         |    |         |    |
| July, 1899, at 5 %                        | 5,000   | 00 |         |    |
| Bond and Mortgage of H. Wood Sullivan     | 3,000   |    |         |    |
| on property on Sterling Street, Bor-      |         |    |         |    |
| ough of Brooklyn, due 1902, at 5 %        | 4,000   | 00 |         |    |
| Bond and Mortgage of Eversley Childs      | 4,000   |    |         |    |
| and William C. Pate on property on        |         |    |         |    |
| Malbone and Sterling Streets, Borough     |         |    |         |    |
| of Brooklyn, due August 15, 1904, at      |         |    |         |    |
| 5 %·····                                  | 8,750   | 00 |         |    |
| Bond and Mortgage of Frank Maunsell       | 0,750   | 00 |         |    |
| on property on Flatbush Avenue and        |         |    |         |    |
| Sterling Place, Borough of Brooklyn,      |         |    |         |    |
| due January 20, 1905, at 4 %              | 35,000  | 00 |         |    |
| Interest in Bond and Mortgage of Jacob    | 33,000  |    |         |    |
| D. Butler for \$250,000 on "Wheelock      |         |    |         |    |
| Property," 161st Street and Broad-        |         |    |         |    |
| way, Borough of Manhattan, due 1904,      |         |    |         |    |
| at 4 %                                    | 2,315   | 50 |         |    |
| Cash on hand                              | 20,522  |    | 178,046 | FO |
|   |         |    | 170,040 | 20 |
| CHANLER PRIZE FUND:                       |         |    |         |    |
|   |         |    |         |    |
| Bequest of J. Winthrop Chanler, of the    |         |    |         |    |
| Class of 1847, to found an annual prize   |         |    |         |    |

# Class of 1847, to found an annual prize for "the best original manuscript essay in English Prose on the History of

Carried forward.....

| \$311 | ,779 | 81 |
|-------|------|----|
|-------|------|----|

| Brought forward<br>Civil Government of America, or<br>some other historical subject."<br>\$1,000. St. Paul, Minneapolis & Mani-<br>toba Railroad Co.'s 41 % Consolidated  |                        | \$311,779 8 | I  |
|---|------------------------|-------------|----|
| Mortgage Bond, due 1933   |                        | 1,000 0     | 0  |
| CLASS OF 1848 SCHOLARSHIP FUND:   |                        |             |    |
| Gift of an anonymous friend to establish<br>this fund.<br>32 shares Atlanta & Charlotte Air Line  |                        |             |    |
| Railroad Co.'s stock<br>Cash on hand  | \$5,476 00<br>4,524 00 | 10,000 0    | 0  |
| COLUMBIA FELLOWSHIP FUND:   |                        |             |    |
| <ul> <li>Established by the Trustees for a travelling fellowship in the Department of Architecture, in recognition of the liberality of Mr. F. Augustus Schermerhorn, of the Class of 1868. to this Department. This fellowship is awarded in every even-numbered year. Established in 1889.</li> <li>\$13,000. Lehigh Valley Railroad Co.'s 4<sup>1</sup>/<sub>2</sub> % First Mortgage Bonds, due 1940</li> </ul>   |                        | 13,000 C    | 0  |
| COTHEAL FUND:   |                        |             |    |
| Gift of Mrs. James R. Swords and Mrs.<br>Samuel Lawrence as a memorial to<br>their brother, Alexander I. Cotheal.<br>The income of the fund to be used<br>and applied to the purchase of books<br>in the Oriental Languages, or relating<br>to Oriental Countries. Established in<br>1896.<br>Bond and Mortgage of Alexander Latner,  |                        |             |    |
| on property No. $437$ East 86th Street,<br>Borough of Manhattan; due 1906,<br>at $4\frac{1}{2}$ %   |                        | 6,000 0     | 0  |
|   |                        | ·           |    |
| CURTIS FELLOWSHIP FUND:<br>Gift of the George William Curtis Me-<br>morial Committee to establish a fellow-<br>ship in the School of Political Science<br>in Columbia University, to bear the<br>name and to perpetuate the memory<br>of the late George William Curtis. The<br>holder of the fellowship to devote him-<br>self to the study of the science of gov-<br>ernment, with a special view to its<br>application to the then existing con-<br>dition of the United States, or of the<br>State or City of New York, and to pub-<br>lish a monograph on some subject re- |                        |             |    |
| Carried forward   |                        | \$341,779 8 | Br |

| Brought forward<br>lating to the then existing condition of<br>the United States, etc. Established<br>in 1899.<br>\$10,000. Scioto Valley & New England<br>Railroad Co.'s 4 % First Mortgage  |                                    | \$341,779 8 <b>1</b> |
|---|------------------------------------|----------------------|
| Gold Bonds, due 1989<br>GEORGE WILLIAM CURTIS MEDALS FUND:<br>Gift from an associate of George William<br>Curtis in the Civil-Service Reform<br>work, to establish this fund.   |                                    | 10,000 00            |
| Cash on hand<br>DA COSTA FUND:  |                                    | 1,000 0 <b>0</b>     |
| <ul> <li>The late Charles M. Da Costa, a member of the Class of 1855 (who died in 1890), bequeathed to the Trustees of Columbia College \$100,000. Of this sum, the Trustees, on October 6, 1891, set apart \$80,000 for the endowment of a Chair in the Department of Biology. This sum has been increased by the profits of certain investments.</li> <li>\$20,000. Central Railroad Company of New Jersey 5 % Consolidated Mortgage Bonds, due 1937</li> <li>\$60,000. Columbia College 3 % Mortgage Gold Bonds, due 1937</li> <li>\$cotificate No. 80, Series 898, issued by the Lawyers' Mortgage Insurance Co., secured by Bond and Mortgage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or before September, 27, 1904, at 4 %</li> <li>Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904,</li> </ul> | \$20,000 00<br>66,000 00<br>500 00 |                      |
| at 4 %  | 76 83                              | 86,576 83            |
| THE DEAN LUNG PROFESSORSHIP OF CHINESE<br>FUND:   |                                    |                      |
| Gift of anonymous friend, to found a<br>Department of Chinese Languages, Lit-<br>eratures, Religion, and Law, and es-<br>pecially for the establishment of a<br>Professorship to be known as the Dean<br>Lung Professorship of Chinese.<br>Interest in Bond and Mortgage of Jacob<br>D. Butler for \$250,000 on "Wheelock<br>Property," 161st Street and Broad-<br>way, Borough of Manhattan, due 1904,<br>at 4 %   | 112,000 00                         |                      |
| Carried forward   | \$112,000 00                       | \$439,356 64         |

1,151 00

### DRISLER CLASSICAL FUND:

Gift of President Low, for the endowment of the "Henry Drisler Classical Fund" for the purchase of books, maps, charts, busts, and such other equipment as will tend to make instruction in the classics more interesting and effective. Established in 1894.

Cash on hand.....

Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 4 %.....

### DYCKMAN FUND:

- Gift of Isaac Michael Dyckman in memory of his uncles, Dr. Jacob Dyckman and Dr. James Dyckman, both of the College of Physicians and Surgeons, to establish the "Dyckman Fund for the Encouragement of Biological Research." "The interest derived therefrom to be devoted annually to such object consistent with the purposes of the gift as shall be recommended by the Department of Zoölogy and approved by the President." Established in 1899.
- Railroad Co.'s 4 % First Mortgage Gold Bonds, due 1989.....

### EATON PROFESSORSHIP FUND:

- On account of \$100,000 bequest of Dorman B. Eaton, deceased, to endow and maintain a Professorship of Municipal Science and Administration in the College.
- Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 4 %.....

3,055 79

10,000 00

Carried forward..... \$675,412 43

213,000 00

10,000 00

Brought forward..... \$675,412 43 GEBHARD FUND: Bequest of Frederick Gebhard to found a Professorship of the German Language and Literature. Established in 1843. 0,000. West Shore Railroad Co.'s Guaranteed 4 % First Mortgage Bonds, \$20,000. due 2361..... 20,000 00 GERMAN LECTURE FUND: Composed of gifts for an endowment for Public Lectures in German at the University. The income to be used for advertising, printing, slides, etc., for this course. Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 4 %..... 1,000 00 ILLIG FUND: Bequest of William C. Illig, of the Class of 1882, School of Mines. The income of the fund to be applied to the pur-chase of prizes to be awarded to stu-dents of the graduating class of the School of Mines, who shall, in the judgment of the Faculty, have merited the same by commendable proficiency in such scientific subjects as the Faculty may designate. Established in 1898. Certificates Nos. 78 and 79, Series 898, issued by the Lawyers' Mortgage Insurance Company, secured by Bond and Mortgage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or before September 27, 1904, at 4 %... 2,000 00 LAW-BOOK TRUST FUND: Created by act of the Trustees on March 5, 1900, by the consolidation of the Alexander Coles Gift (\$500); John Jay Jenkins Legacy (\$500); John McKeon Fund (\$1,000); Sampson Simson Fund (\$1,000); and Edgar J. Nathan Gift (\$250). The income to be applied to the purchase of law books the purchase of law books. Certificates Nos. 73 and 74, Series 898 (each \$2,000), issued by the Lawyers' Mortgage Insurance Company, se-cured by Bond and Mortgage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or before September 27, 1904, at 4 %..... \$4,000 00 Carried forward..... \$4,000 00 \$698,412 43

Brought forward..... \$4,000 00 \$698,412 43

| Interest in Bond and Mortgage of Jacob<br>D. Butler for \$250,000 on "Wheelock |        |          |
|--|--------|----------|
| Property," 161st Street and Broadway,  |        |          |
| Borough of Manhattan, due 1904, at   |        |          |
| 4 %  | 250 00 | 4,250 00 |

### LOUBAT FUND:

Gift of Joseph F. Loubat (Duc de Loubat), for prizes to be given every five years for works in the English Lan-guage on the History, Geography, Archæology, Ethnology, Philology, or Numismatics of North America. First prize, \$1,000; second prize, \$400. The prizes will be next awarded in June, 1903. Established in 1892. \$7,000. Buffalo, Rochester & Pittsburg Railroad Co.'s 5 % General Mortgage Bonds, due 1937..... 6,979 75 Certificate No. 12,680 of the New York Life Insurance and Trust Company at 3 %..... 20 25 7,000 00 MCKIM FELLOWSHIP FUND: Gift of Charles F. McKim for two travelling fellowships in the Department of Architecture. These fellowships are awarded in every odd-numbered year. Established in 1889. \$20,000. St. Paul, Minneapolis & Manitoba Railroad Co.'s 41 % Consolidated Mortgage Bonds, due 1933..... 20,000 00 MEMBER OF CLASS OF '85 FUND: The gift of Grant Squires, of the Class of 1885. The income of the fund to be awarded every five years to defray the expenses of a sociological investigation that promises results of a scientific value. Established in 1895. Certificate No. 76, Series 898, issued by the Lawyers' Mortgage Insurance Company, secured by Bond and Mortgage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or before September 27, 1904, at 4 %.....

Carried forward.....

1,050 00

\$730,712 43

MOFFATT SCHOLARSHIP FUND:

- Bequest of William B. Moffatt, M.D., of the Class of 1838, "for the purposes of one or more scholarships for the education and instruction of one or more indigent students." Established in 1863.
  \$2,000. St. Paul, Minneapolis & Manidia St. Paul, Minneapolis & Mani
  - toba Railroad Co.'s  $4\frac{1}{3}$ % Consolidated Mortgage Bonds, due 1933.....

### MOSENTHAL FELLOWSHIP FUND:

- Gift of friends of the late Joseph Mosenthal to found a fellowship in Music. Established in 1898.
- Certificate No. 69, Series 898, issued by the Lawyers' Mortgage Insurance Company, secured by Bond and Mortgage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or before September 27, 1904, at 4 %.....

#### PERKINS FELLOWSHIP FUND:

- Bequest of Willard B. Perkins (who died in 1897). The income of the fund to be expended every four years for a travelling fellowship in the Architectural Department. The fellowship will be next awarded in June, 1906.
- will be next awarded in June, 1906. Certificate No. 71, Series 898, issued by the Lawyers' Mortgage Insurance Company, secured by bond and Mortgage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or before September 27, 1904, at 4 %.....

#### PHILOLEXIAN CENTENNIAL WASHINGTON PRIZE FUND:

- Gift from the Philolexian Society to establish this fund. The accumulated interest thereof to be expended every four years for a life-size bronze bust of George Washington, to be given to that member of the Philolexian Society who, in the opinion of the President of the University, the President of the Society, and a third man of their choosing, shall be deemed most worthy upon his delivery of an original patriotic address.
- \$1,000. Chesapeake & Ohio Railroad Co.'s (Craig Valley Branch) 5 % First Mortgage Gold Bond, due 1940.....

7

Carried forward.....

2,000 00

7,500 00

5,700 00

1,000 00

\$746,912 43

| \$7 | 46 | ,91 | 2 | 43 |
|-----|----|-----|---|----|
|-----|----|-----|---|----|

| PHOENIX LEGACY:  |         |     |           |    |
|--|---------|-----|-----------|----|
| On account of one-third part of the re-                                    |         |     |           |    |
| siduary estate of the late Stephen   |         |     |           |    |
| Whitney Phœnix, bequeathed to Col-   |         |     |           |    |
| umbia College.   |         |     |           |    |
| 16 shares Albany & Susquehanna Rail-                                       |         |     |           |    |
|  | 000     | 00  |           |    |
| 19 shares Catawissa Railroad Co.'s Pre-                                    |         |     |           |    |
|  | 475     | 00  |           |    |
| 8 shares Cincinnati, Hamilton & Dayton                                     | 115     |     |           |    |
|  | 365     | 00  |           |    |
| 11 shares Cincinnati, Hamilton & Dayton                                    | 00      |     |           |    |
| Railroad Co.'s Common Stock  |         |     |           |    |
| 5 shares Consolidated Gas Company of                                       |         |     |           |    |
| New York stock   | 273     | 53  |           |    |
| 102 shares Delaware & Hudson Co.'s   |         |     |           |    |
|  | 200     | 00  |           |    |
| 103 shares Delaware, Lackawanna &  |         |     |           |    |
| Western Railroad Co.'s stock   | 180     | 00  |           |    |
| \$6,000. Harlem River and Portchester                                      |         |     |           |    |
| Railroad Co.'s 7 % First Mortgage  |         |     |           |    |
|  | 000     | 00  |           |    |
| 219 shares Illinois Central Railroad Co.'s                                 |         |     |           |    |
| stock <sup>27,</sup><br>11 shares of stock of National Bank of             | 003     | 10  |           |    |
|  |         |     |           |    |
|  | 540     | 00  |           |    |
| \$3,000. New York Central & Hudson   |         |     |           |    |
| River Railroad Co.'s 4 % Gold Ex-<br>tended Debt Certificates of 1853, due |         |     |           |    |
|  | 000     | ~~  |           |    |
| 66 shares New York, New Haven & Hart-                                      | ,000    | 00  |           |    |
|  | ,560    | 00  |           |    |
| 33 shares Pittsburg, Fort Wayne & Chi-                                     | ,300    | 00  |           |    |
|  | ,125    | 00  |           |    |
| 18 shares Rensselaer & Saratoga Railroad                                   | ,5      |     |           |    |
|  | ,290    | OI  |           |    |
| 90 shares United New Jersey Railroad &                                     | , _ , _ | /   |           |    |
|  | ,400    | 00  |           |    |
| Bond and Mortgage of Moritz Simon and                                      |         |     |           |    |
| wife on property No. 93 Park Row,  |         |     |           |    |
| Borough of Manhattan, due Decem-   |         |     |           |    |
| ber, 1904, at 4 % 15   | ,000    | 00  |           |    |
| Bond and Mortgage of Morris Goldberg                                       |         |     |           |    |
| and Nathan Schancupp on No. 136  |         |     |           |    |
| Monroe Street, Borough of Manhattan,                                       |         |     |           |    |
| due May, 1903, at $4\frac{1}{2}$ % 15                                      | ,000    | 00  |           |    |
| Bond and Mortgage of Lillie A. King on                                     |         |     |           |    |
| No. 2262 Second Avenue, Borough of   |         |     |           |    |
| Manhattan, due November, 1902,   |         | ~~~ |           |    |
| at 4 % 15<br>Bond and Mortgage of Austin Flint Mor-                        | ,000    | 00  |           |    |
| ris on No. 13 West 60th Street, Borough                                    |         |     |           |    |
|  | ,000    | 00  |           |    |
|  | ,005    |     | 149,508   | 14 |
|  |         |     |           |    |
| Carried forward  |         |     | \$896,420 | 87 |
|  |         |     |           |    |

\$896,420 87

#### ALEXANDER MONCRIEF PROUDFIT FELLOW-SHIP FUND:

- Legacy (of \$15,000) from the late Alexander Moncrief Proudfit, of the Class of 1892 (who died in 1899), to found a fellowship to be known as the Alexander Moncrief Proudfit Fellowship in Letters, "to be held only by such persons as, being the sons of native-born American parents, shall have taken the degree of Bachelor of Arts after a three years' residence in Columbia College, and shall, while enjoying such Fellowship or the income thereof, remain unmarried. Such fellowship to be for the encouragement of study in English Literature." Established in 1899.
- 1899.
  \$12,000. Northern Pacific Railroad Co.'s Prior Lien Railway and Land Grant 4 % Gold Bonds, due January 1, 1997.
  Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 1904.

at 4 %.....

\$12,000 00

### 1,875 00 13,875 00

### PULITZER SCHOLARSHIP FUND:

| <ul> <li>Gift of \$100,000 by Joseph Pulitzer to found thirty scholarships for graduates of City Grammar Schools, one-half the sum to be used on improvements on the New Site at 116th Street. Established in 1893.</li> <li>\$25,000. Niagara Falls Power Co.'s 5 % First Mortgage Consolidated Bonds, due 1932</li></ul>                                     | 22,500 00<br>27,948 75 | 50,448    | 75 |
|--|------------------------|-----------|----|
| SCHERMERHORN SCHOLARSHIP FUND:   |                        |           |    |
| <ul> <li>Bequest of John J. Schermerhorn of the Class of 1825, "for the purpose of free scholarships, the nomination to which shall vest in my nearest male relative in each generation during his lifetime." Established in 1877.</li> <li>\$5,000. St. Paul, Minneapolis &amp; Manitoba Railroad Co.'s 4½ % Consolidated Mortgage Bonds, due 1933</li> </ul> |                        | 5,000     | 00 |
| Carried forward  |                        | \$965,744 | 62 |

### SCHIFF FELLOWSHIP FUND:

- Gift of Jacob H. Schiff to found a fellowship in the School of Political Science, to be annually awarded by the Faculty on the nomination of the donor or his eldest living male descendant, etc. Established in 1898.
- Certificate No. 67, Series 898, issued by the Lawyers' Mortgage Insurance Company, secured by Bond and Mortgage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or before September 27, 1904, at 4 %.....

#### CARL SCHURZ FELLOWSHIP FUND:

- From the Carl Schurz Fund Committee to establish this fellowship in honor of Carl Schurz. Established April 2, 1900.
- Interest in bond and Mortgage of Jacob D. Butler for \$250,000, on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 4 %.....

### CARL SCHURZ LIBRARY FUND:

- From the Carl Schurz Fund Committee to establish this fund in honor of Carl Schurz, the income to be devoted to the purchase of books, maps, pamphlets, and the like, in the field of the German Language and Literature. Established March 5, 1900.
- the German Language and Literature. Established March 5, 1900. Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 4 %.....

#### SEIDL FUND:

- The proceeds of a Memorial performance held at the Metropolitan Opera House, on March 23, 1899, in honor of the late Anton Seidl. The income of the fund to be paid to Mrs. Seidl during her life time, and thereafter "to be awarded at least every second year to the most promising candidate, either man or woman, prepared to devote himself to the study of musical composition at Columbia University, or elsewhere in this country or abroad."
- \$12,000. Scioto Valley & New England Railroad Co.'s 4 % First Mortgage Gold Bonds, due 1989.....

Carried forward.....

12,000 00

### \$1,012,744 62

\$965,744 62

15,000 00

10,000 00

10,000 00

nd

### STUART SCHOLARSHIP FUND:

- The gift of Mrs. Cornelia A. Atwill, in memory of her grandsons, Sidney Barculo Stuart, of the Class of 1880, and Eugene Tolman Stuart, of the Class of
- Rugene Tolman Stuart, of the Class of 1881, to found two scholarships in the College, to be known as "Stuart Scholarships." Established in 1895. Certificate No. 70, Series 898, issued by the Lawyers' Mortgage Insurance Company, secured by Bond and Mort-gage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or be-fore Sentember 27, 1004, at 4 % fore September 27, 1904, at 4 % .....

### TROWBRIDGE FUND:

- Gift of the Alumni Association of the School of Mines as a Memorial to the late Professor Trowbridge, to estab-lish the "William Petit Trowbridge Fellowship in Engineering." The income of the fund, to be not less than \$500 per year, is payable to the widow of Professor Trowbridge during the pleasure of the Trustees. Established
- in 1893. \$10,000. Lehigh & Hudson River Railroad Co.'s 5 % First Mortgage Gold Bonds, due 1911.....

### TRUST FUND FOR PSYCHOLOGY:

| <ul> <li>Gift of John D. Rockefeller, as an endowment of the head professorship of the Psychological Department of Columbia University. Received November 17, 1899.</li> <li>\$50,000. Wisconsin Central Railroad Co.'s 4 % First General Mortgage</li> </ul> |          |                 |
|---|----------|-----------------|
| Gold Bonds, due July 1, 1949<br>\$50,000. Northern Pacific Railroad Co.'s<br>4 % Prior Lien Railway and Land<br>Grant Gold Bonds, due January 1,  | \$45,750 | 00 <sup>-</sup> |
| 1997.<br>Interest in Bond and Mortgage of Jacob<br>D. Butler for \$250,000 on "Wheelock<br>Property," 161st Street and Broad-<br>way, Borough of Manhattan, due 1904,   | 50,750   | 00              |
| at 4 %  | 3,500    | 00 100,000 00   |
| Carried forward   |          | \$1,128,744 62  |

6,000 00

10,000 00

### TYNDALL FELLOWSHIP FUND:

- Gift of the late Professor John Tyndall of London. The income of the fund to be applied to the support of "American pupils who may have shown decided talents in Physics, etc." Established in 1885.
- in 1885. \$11,000. West Shore Railroad Co.'s 4 % First Mortgage Bonds, due 2361.....

#### WARING FUNDS:

The Chamber of Commerce of the State of New York, in the latter part of the year 1898, raised by public subscription the sum of \$100,000, to perpetuate the memory of the late Col. George E. Waring. The income of the fund (to be not less than \$4,000 per year), to be paid semi-annually to the widow and daughter of Colonel Waring during their lifetime, and, thereafter, "the income shall be devoted to the purpose of instruction in municipal affairs in such manner as the President and Board of Trustees of said College may direct."

### FOR MRS. WARING

| <ul> <li>\$14,000. Illinois Central Ra<br/>4 % Bonds, due 1953</li> <li>\$8,000. Scioto Valley &amp; No<br/>Railroad Co.'s 4 % Firs<br/>Gold Bonds, due 1989</li> <li>Interest in Bond and Mortga<br/>D. Butler for \$250,000 m<br/>Property," 161st Street<br/>way, Borough of Manhatta<br/>at 4 %</li> </ul>              | w England<br>t Mortgage<br>ge of Jacob<br>"Wheelock<br>and Broad-<br>n, due 1904, | \$14,000 00 | 5            |
|---|---|-------------|--------------|
| FOR MISS WARING   |   | 50,000 00   | >            |
| <ul> <li>\$10,000. Scioto Valley &amp;<br/>New England Railroad<br/>Co.'s 4 % First Mortgage<br/>Gold Bonds, due 1989</li> <li>Interest in Bond and Mort-<br/>gage of Jacob D. Butler<br/>for \$250,000 on "Wheel-<br/>ock Property," 161st St.<br/>and Broadway, Borough<br/>of Manhattan, due 1904,<br/>at 4 %</li> </ul> | \$10,000 00   | 50,000,00   | 0 100,000 00 |
| 0 1 1 4 1   |   |             |              |

Carried forward.....

10,945 50

TREASURER'S REPORT

| Brought forward  |         | \$1 | ,239,690 12 |
|--|---------|-----|-------------|
| CLARK SCHOLARSHIP FUND, SCHOOL OF  |         |     |             |
| MEDICINE:<br>Descuert of the late Alenze Clark M.D.  |         |     |             |
| Bequest of the late Alonzo Clark, M.D.,<br>formerly President of the College of  |         |     |             |
| Physicians and Surgeons, for the pur-  |         |     |             |
| pose of promoting the discovery of   |         |     |             |
| new facts in Medical Science. First  |         |     |             |
| prize bestowed October 1, 1894.  |         |     |             |
| 17 shares United New Jersey Railroad<br>and Canal Co.'s stock (par \$100 each).  | \$3,874 | 0.4 |             |
| Certificate No. 81, Series 898, issued by  | \$3,074 | 94  |             |
| Certificate No. 81, Series 898, issued by<br>the Lawyers' Mortgage Insurance   |         |     |             |
| Company, secured by Bond and Mort-   |         |     |             |
| gage of John T. Williams, on property<br>on Church Street, near White Street,  |         |     |             |
| Borough of Manhattan, due on or be-  |         |     |             |
| fore September 27, 1904, at 4 %  | 125     | 06  |             |
| Cash on hand   | 10,000  |     | 14,000 00   |
|  |         |     |             |
| HARSEN PRIZE FUND, SCHOOL OF MEDICINE:   |         |     |             |
| Founded by the late Jacob Harsen, M.D.,<br>in 1859. The income of the fund to be   |         |     |             |
| given in prizes as follows: Clinical Re-   |         |     |             |
| ports, three prizes: First prize, \$150;   |         |     |             |
| ports, three prizes: First prize, \$150;<br>Second prize, \$75; Third prize, \$25.<br>Proficiency at Examinations, three |         |     |             |
| prizes: First prize, \$500; Second   |         |     |             |
| prize, \$300; Third prize, \$200.  |         |     |             |
| 28 shares of United New Jersey Railroad  |         |     |             |
| and Canal Co.'s stock (par \$100 each).<br>Bond and Mortgage of William Moores   | 6,382   | 25  |             |
| on property on north side of 129th   |         |     |             |
| Street, 315 feet east of Fourth Avenue,  |         |     |             |
| Borough of Manhattan, due 1002, at   |         |     |             |
| 4 %<br>Certificate No. 75, Series 898, issued by<br>the Lawyers' Mortgage Insurance                                      | 15,000  | 00  |             |
| the Lawyers' Mortgage Insurance  |         |     |             |
| Company, secured by Bond and Mort-   |         |     |             |
| gage of John T. Williams, on property  |         |     |             |
| on Church Street, near White Street,   |         |     |             |
| Borough of Manhattan, due on or be-<br>fore September 27, 1904, at 4 %   | 7 604   | 0.4 |             |
| Columbia College 3 % Mortgage Gold   | 1,624   | 94  |             |
| Bonds, due 1909  | 8,000   | 00  |             |
| Bonds, due 1909<br>Interest in Bond and Mortgage of Jacob<br>D. Butler for \$250,000 on "Wheelock                        |         |     |             |
| Property," 161st Street and Broad-   |         |     |             |
| way, Borough of Manhattan, due   |         |     |             |
| 1904, at 4 %   | 106     | 91  | 31,114 10   |
|  |         |     |             |
| JACOBI WARD FUND, SCHOOL OF MEDICINE:  |         |     |             |
| Gift of an anonymous donor, "to endow<br>a ward for children in the Roosevelt  |         |     |             |
| a ward for children in the Roosevelt<br>Hospital." Established in 1899 as a  |         |     |             |
| Memorial to the donor's wife and in  |         |     |             |
| honor of Dr. Abraham Jacobi.   |         |     |             |
| Carried forward  |         | \$1 | ,284,804 22 |
|  |         |     | ,           |

404

.

| \$1,28 | 34,80 | 4 22 |
|--------|-------|------|
|--------|-------|------|

50,000 00

\$25,000 00

15,000 00

7,500 00

2,500 00

12,000 00

1,875 00

\$25,000. New Jersey Junction Railroad Co.'s 4 % First Mortgage Bonds, due 1986..

- Bond and Mortgage on property No. 200 East 17th Street, Borough of Manhattan, due 1904, at 4 %.....
- Bond and Mortgage of Ruth Walters et al. on property Nos. 719 and 721 9th Street, Borough of Manhattan, due
- Street, Borough of Manhattan, due 1885 at 5 %..... Certificate No. 72, Series 898, issued by the Lawyers' Mortgage Insurance Company, secured by Bond and Mort-gage of John T. Williams, on property on Church Street, near White Street, Borough of Manhattan, due on or be-fore Sentember 27, 1004, at 4 % fore September 27, 1904, at 4 %.....
- MARIA MCLEAN PROUDFIT FELLOWSHIP FUND IN MEDICINE:
  - Legacy (of \$15,000) from the late Alexander Moncrief Proudfit, of the Class of 1892 (who died in 1899), to found a fellowship to be known as the "Maria McLean Proudfit Fellowship," to be held only by such persons as, being the sons of native-born American parents, shall, under the direction of the Medical Faculty of Columbia College, pursue advanced studies in Medicine, and shall, while enjoying this fellowship or the income thereof, remain unmarried. Established in 1889.
  - \$12,000. Northern Pacific Railroad Co.'s Prior Lien Railway and Land Grant 4 % Gold Bonds, due January 1, 1997. Interest in Bond and Mortgage of Jacob D. Butler for \$250,000 on "Wheelock Property," 161st Street and Broadway, Borough of Manhattan, due 1904, at 4 %.....
- SLOANE MATERNITY HOSPITAL FUND, SCHOOL OF MEDICINE:
  - Gift of William D. Sloane and Emily Thorne Sloane, his wife, as an endowment to the Sloane Maternity Hospital to make all its beds free in perpetuity. Established in 1889. Michigan Central Railroad Co.'s (Detroit and Bay City) First Mortgage 5 % Bonds, due 1931..... 125,000 00 Chicago & Northwestern Railroad Co.'s 5 % Sinking Fund Debenture Bonds, due 1933..... 125,000 00 250,000 00 Carried forward.....
    - \$1,598,679 22

13,875 00

TREASURER'S REPORT

| Brought forward  |                              | \$1, | 598,679 | 22 |
|--|------------------------------|------|---------|----|
| SMITH PRIZE FUND, SCHOOL OF MEDICINE:  |                              |      |         |    |
| <ul> <li>Gift of relatives, friends, and pupils of the late Joseph Mather Smith, M.D., as a Memorial of his services as Professor in the College of Physicians and Surgeons from 1826 to 1866. An annual prize of \$100 is to be awarded for the best essay on the subject of the year presented by an Alumnus of the College.</li> <li>11 shares of the United New Jersey Railroad and Canal Co.'s stock (par \$100 each).</li> </ul>   |                              |      | 2,337   | 81 |
| STEVENS PRIZE FUND, SCHOOL OF MEDI-<br>CINE:   |                              |      |         |    |
| <ul> <li>Established by the late Alexander Hodgson Stevens, M.D., formerly President of the College of Physicians and Surgeons. The income of the fund is awarded every three years for the best medical essay covering original research as determined by the Committee in charge of the Prize. To be next awarded in June, 1903.</li> <li>9 shares of the United New Jersey Railroad and Canal Co.'s stock (par \$100 each)</li> </ul> |                              |      | 1,899   | 88 |
| VANDERBILT CLINIC ENDOWMENT FUND,<br>SCHOOL OF MEDICINE:   |                              |      |         |    |
| <ul> <li>Gift of Cornelius, William K., Frederick W., and George W. Vanderbilt, as a perpetual Memorial to their father, the late William H. Vanderbilt, and as an endowment for the Vanderbilt Clinic. Established in 1896.</li> <li>Michigan Central Railroad Co.'s (Detroit and Bay City) First Mortgage 5 % Bonds, due 1931</li></ul>  | \$100,000<br>10, <b>0</b> 00 | 00   |         |    |
| Second Mortgage Bonds, due 1913  | 5,000                        | 00   | 115,000 | 00 |

406

\$1,717,916 91

|  | Credit<br>Balance<br>June 30, 1  | \$1.530   |
|--|--|---|
| IS FOR   | Debit<br>Balances,<br>June 30, 1902  | 491 22<br>982 76<br>480 26<br>480 26<br>81.530  |
| RUST FUNI  | Total CreditsExpenditures,<br>1901-1902Debit<br>Balances,<br>June 30, 1902Credit<br>Balance<br>June 30, 1903 | 2,491 22 <b>*\$</b> 2,491 22<br>1,982 76 <b>*</b> 1,982 76<br>1,982 76 <b>*</b> 1,982 76<br>1,030 54 400 00 |
| <b>JME OF TH</b><br><b>VE 30, 1902</b>   | Total Credits  | 97  |
| RECEIPTS AND DISBURSEMENTS OF INCOME OF TRUST FUNDS FOR<br>THE YEAR ENDING JUNE 30, 1902 | Income,<br>1901–1902   | \$2,491 22<br>400 00<br>1,982 76<br>489 26  |
|  | Credit<br>Balances,<br>July 1, 1901  | \$1.530 54  |
|  | Debit<br>Balances,<br>July 1, 1901   | SI 5 20 54  |
| RECEIPTS   | FUND   | Architectural Fund<br>1 Fellowship Fund<br>1 Library Fund<br>1 Barnard Fund                                 |

| Credit<br>Balances,<br>June 30, 1902 | \$1,539 54<br>\$1,539 54<br>51 25<br>119 50<br>28 67<br>28 89<br>910 00<br>588 89<br>588 89<br>588 89<br>588 89<br>910 00<br>910 00<br>93 19<br>93 19  | \$4,802 41                                     |
|--------------------------------------|--|--|
| Debit<br>Balances,<br>June 30, 1902  |  |  |
| Expenditures,<br>1901–1902           | $\begin{array}{c} *\$_{2},400\ 22\\ *1,982\ 76\\ *489\ 26\\ +400\ 00\\ +100\ 00\\ +100\ 00\\ +100\ 00\\ +100\ 00\\ +10\ 00\\ +10\ 00\\ +100\ 00\\ +100\ 00\\ +100\ 00\\ +100\ 00\\ +100\ 00\\ +100\ 00\\ +100\ 00\\ \end{array}$   | \$20,417 86                                    |
| Total Credits                        | \$2,491 22<br>489 26<br>1,982 76<br>489 26<br>1,939 54<br>1033 54<br>119 50<br>119 50<br>37 54<br>37 54<br>910 00<br>1,188 89<br>1,188 89<br>3,003 08<br>3,003 08<br>5,472 18<br>5,472 18<br>5,472 18<br>5,472 18<br>5,472 18  | \$25,220 27                                    |
| Income,<br>1901–1902                 | \$2,491 22<br>1,982 76<br>489 26<br>480 00<br>100 00<br>40 00<br>4,653 59<br>4,653 59<br>4,653 59<br>4,653 59<br>4,653 59<br>4,653 59<br>3,7 54<br>270 00<br>400 00<br>400 00<br>400 00<br>400 00<br>400 00<br>400 00<br>5,861 06  | \$2,894 I7 \$22,714 98 \$25,220 27 \$20,417 86 |
| Credit<br>Balances,<br>July 1, 1901  | \$1,539 54<br>51 25<br>79 50<br>88 67<br>788 89<br>788 89<br>788 89<br>788 89<br>788 89  | \$2,894 17                                     |
| Debit<br>Balances,<br>July 1, 1901   | \$388<br>\$388<br>\$3  | \$388 88                                       |
| FUND                                 | Avery Architectural Fund<br>Barnard Fellowship Fund<br>Barnard Library Fund<br>Margaret Barnard Fund<br>Beck Prize Fund<br>Beck Scholarship Fund<br>Campbell Scholarship Fund<br>Campbell Scholarship Fund<br>Conter Fund<br>Conter Fund<br>Conteal Fund<br>Cotheal Fund<br>Cotheal Fund<br>Cotheal Fund<br>Cotheal Fund<br>Cotheal Fund<br>Curtis Medals Fund<br>DaCosta Professorship Fund<br>Dacosta Professorship Fund<br>Dacosta Professorship Fund<br>Darster Classical Fund<br>Darster Classical Fund<br>Drisler Classical Fund<br>Dyckman Fund | Carried forward                                |

# TREASURER'S REPORT

| Credit<br>Balances,<br>June 30, 1902 | \$4,802 41<br>50 67<br>499 49<br>2,086 11<br>84 00<br>674 56<br>800 00<br>2,907 83<br>2,907 83  | \$12,899 29   |
|--------------------------------------|---|---|
| Debit<br>Balances,<br>June 30, 1902  | \$720 222<br>\$720 222  | \$727 48  |
| Expenditures,<br>1901–1902           | \$20,417 86<br>*170 00<br>1,800 00<br>1,800 00<br>790 00<br>\$4,000 00<br>2,410 00<br>2,410 00<br>2,410 00<br>2,410 00<br>2,410 00<br>1,2,871 21<br>1,480 00<br>1,2,000 00<br>2,000 00  | \$39,199 07   |
| Total Credits                        | \$25,220 27<br>50 67<br>4790 49<br>1790 00<br>2,086 11<br>1,800 00<br>674 50<br>674 50<br>6,907 83<br>2,410 00<br>2,410 00<br>2,410 00<br>2,410 00<br>2,410 00<br>2,10 21<br>1,992 74<br>1,992 74   | \$\$1,370 88  |
| Іпсоте,<br>1901–1902                 | \$22,714 98<br>80 00<br>80 00<br>170 00<br>42 00<br>900 00<br>42 00<br>900 00<br>900 00<br>240 82<br>6,907 83<br>2,410 00<br>2,410 00<br>4,1140 00<br>4,1140 00<br>4,1140 00<br>4,1140 00<br>2,000 00<br>2,000 00   | \$2,385 I5 \$7,479 83 \$46,276 20 \$51,370 88 \$39,199 07 |
| Credit<br>Balances,<br>July 1, 1901  | \$2,894 17<br>1 0 67<br>419 49<br>1,685 54<br>900 00<br>374 56<br>559 18<br>559 18<br>469 97  | \$7,479 83  |
| Debit<br>Balances,<br>July 1, 1901   | \$388 88<br>\$388 88<br>1,268 79<br>1,268 79  | \$2,385 I5  |
| FUND                                 | Brought forward<br>German Lecture Fund.<br>Law-Book Trust Fund.<br>Law-Book Trust Fund<br>Loubat Fund<br>McKim Fellowship Fund.<br>Member of Class of '85 Fund.<br>Member of Class of '85 Fund.<br>Member of Class of '85 Fund.<br>Perkins Fellowship Fund.<br>Proudfit Fellowship Fund.<br>Letters<br>Phoenix Legacy.<br>Letters<br>Fund.<br>Schernerhom Scholarship<br>Fund.<br>Schurz Ellowship Fund.<br>Schurz Ellowship Fund.<br>Schurz Ellowship Fund.<br>Schurz Ellowship Fund.<br>Trust Fund for Psychology.<br>Trust Fund for Psychology.<br>Trust Fund (Mrs. Waring).<br>Waring Fund (Miss Waring). | Carried forward   |

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# TREASURER'S REPORT

| \$727 48 \$12,899 29  |                    | 172 33                     |                      | I,049 84                        | 390 50                | 100 44  | •         | •<br>•<br>•<br>•<br>•<br>• | \$3.766 43 \$9.162 90 \$68,651 60 \$74,048 07 \$60,900 82 \$2,033 76 \$15,181 01 |
|---|--------------------|----------------------------|----------------------|---------------------------------|-----------------------|---|-----------|----------------------------|--|
|   |                    | 675 00                     | 1,306 28             |                                 | • • • • • • • • • •   | •<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | •         | ·<br>·<br>·<br>·<br>·      | \$2,033 76   |
| \$39,199 07   |                    | 675 00                     | 1,400 00<br>1,400 00 | * .<br>• .<br>• .<br>• .<br>• . | •                     | •   | 12,500 00 | 5,650 00                   | \$60,900 82  |
| \$51,370 88   |                    | 847 33                     | 93 72                | 1,049 84                        | 390 50 .              | 100 44  | 12,500 00 | 5,650 00                   | \$74,048 07  |
| \$46,276 20   |                    | 806 12                     | 1,475 00             | 555 00                          | 00 011                | 00 00   | 12,500 00 | 5,650 00                   | \$68,651 60  |
| \$7,479 83  |                    | 41 21                      | 20 00/               | 494 84                          | 280 50                | 70 44   | •         | •<br>•<br>•<br>•<br>•      | \$9,162 90   |
| \$2,385 I5  |                    | •<br>•<br>•<br>•<br>•<br>• | I,38I 28             |                                 | •<br>•<br>•<br>•<br>• | •   | •         | •<br>•<br>•<br>•<br>•      | \$3,766 43   |
| Brought forward  \$2,385 I5   \$7,479 83  \$46,276 20  \$51,370 88  \$39,199 07 | SCHOOL OF MEDICINE | Clark Scholarship Fund     | Jacobi Ward Fund.    | Medicine.                       | Smith Prize Fund.     | Sloane Maternity Hospital   | Fund.     | Fund.                      |  |

|| \$2,600 transferred to Library account.

\$4,000

TREASURER'S REPORT

| AR   |                      |
|--|----------------------|
| YE.  |                      |
| THE  |                      |
| FOR  |                      |
| FUNDS FOR DESIGNATED PURPOSES, RECEIPTS AND DISBURSEMENTS FOR THE YEAR | 1002                 |
| AN   | 30.                  |
| RECEIPTS   | ENDING IUNE 20, 1003 |
| PURPOSES,  | ENDI                 |
| TED  |                      |
| DESIGNA'   |                      |
| FOR  |                      |
| FUNDS  |                      |

EXCLUSIVE OF RECEIPTS FROM BARNARD COLLEGE FOR SALARIES.

| Account   | Credit<br>Balances,<br>July 1, 1901 | Appropriated<br>by Trustees             | Receipts,<br>1901–1902 | Total Credits           | Payments,<br>1901–1902 | Credit<br>Balances,<br>June 30, 1902 |
|---|-------------------------------------|---|------------------------|-------------------------|------------------------|--------------------------------------|
| Educational Administration:<br>Salaries                         |                                     |   | \$500 00               | \$500 00                | \$500 00               |                                      |
| Lectures  | •                                   | \$662 80                                | 1,000 00<br>71 80      | 1,000 00<br>714 60      | I,000 00               | \$114 QO                             |
| Printing and Postage on Catalogue-                              | •••••                               | 200                                     | 3+ 00                  | 1 14 00                 |                        | ₩/±4 00                              |
| School of Medicine  | #590 74                             |   | •                      | 590 74                  | 590 74                 |                                      |
| Pan-American Exposition-rgor                                    | *1,800 25                           |   |                        | I,800 25                | *1,800 25              |                                      |
| American School for Oriental Study<br>and Research in Palestine | 150 00                              |   |                        | 150 00                  | 100 00                 | 40<br>00                             |
| American Mathematical Society Gift                              | 300 00                              | ••••••••••••••••••••••••••••••••••••••• |                        | 300 00                  | 100 00                 | 200 00                               |
| Fire Repairs  | IS                                  | ••••••••••••••••••••••••••••••••••••••• |                        | IS                      | 15                     |                                      |
| Women's Evening Session   | 16 oo                               |   | 149 58                 | 165 58                  | 165 58                 | ••••••                               |
| Library:<br>Binding Manuscripts.                                | 229 30                              | •                                       |                        | 229 30                  | 47 20                  | 182 10                               |
| Books and Binding of  | 10 400                              | •<br>•<br>•<br>•<br>•<br>•              | 400 48                 | 400 48<br>2 718 52      | т. 684 т.2             | 400 48<br>I.024 4I                   |
| Barnard Library Funds   | I,722 75                            |   | 2,472 02               | 4,194 77                | 3,975 23               | 219 54                               |
| Cotheal Fund.   | 85 60                               | ••••••••••••••••••••••••••••••••••••••• | 270 00                 | 355 60                  | 333 33                 | 22 27                                |
| Law-Book Trust Fund   | 00 0I                               | · · · · · · · · · · · · · · · · · · ·   | 2,000 00<br>170 00     | 2,000 00<br>180 00      | 024 45<br>169 90       | 1,975 55<br>10 10                    |
| Schurz Library Fund   | 104 20                              | •                                       | 400 00                 | 504 20                  | 405 00                 | 99 20                                |
| Drisler Classical Fund  | 78 26                               | ••••••                                  | 400 00                 | 478 26                  |                        | •••••                                |
| Carried forward   | \$5,333 96                          | \$662 80                                | \$662 80 \$10,911 IO   | \$16,907 86 \$11,974 21 | \$11,974 2I            | \$4,933 65                           |

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# TREASURER'S REPORT

| \$4,933 65<br>116 18    | 194 oo                                | • • •<br>• • •<br>• • •<br>• • •<br>• • • | 2,923 IO                    | 112 26                     | 73 43                 | • • • • • • • • •                         | • • • • • • • • •                       |   |                       | <pre></pre>           | _                                       |   | • • • • • • • •                      |                                    | 050 00                                  |                                  | • • • • • • • • • | • • • • • • • • •                       |                                      | • • • • • • • • •                       | • • • • • • • • •                       | 200 00                     | · · · · · · · · · · · · · · · · · · · | 150 00                        |                                     | •                                | Sor oo                              | I.000 00                    | 7 500 00                              |  |                                     | \$21,862 22     |
|-------------------------|---------------------------------------|---|-----------------------------|----------------------------|-----------------------|---|---|---|-----------------------|-----------------------|---|---|--------------------------------------|------------------------------------|---|----------------------------------|-------------------|---|--------------------------------------|---|---|----------------------------|---------------------------------------|-------------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------------|---------------------------------------|--|-------------------------------------|-----------------|
| \$11,974 21<br>1,923 82 | 10 00                                 |   |                             |                            | 144 96                | 350 02                                    | 01                                      | I,022 07                                | 340 62                | 3,375 69              | 7,838 13                                |   | 1,500 00                             |                                    | • • • • • • • • • • •                   | ,                                | 050 00            | 650 00                                  |                                      | 250 00                                  | 200 00                                  | 200 00                     | 5,750 00                              | • • • • • • • •               | 0000                                | 1,000 UU                         | 181 00                              | I .000 00                   |                                       | 2.500 00                               |                                     | \$41,959 46     |
| \$16,907 86<br>2,040 00 | 210 00                                | 043 47                                    |                             |                            | 218 39                | 350 02                                    | IÓ                                      | I,022 07                                |                       | 4,293 40              | IO,000 00                               |   | I,500 00                             |                                    | 050 00                                  | ,                                | 050 00            | 650 00                                  |                                      | 250 00                                  | 200 00                                  | 400 00                     | 5,750 00                              | 150 00                        | 0000                                | 1,000 00                         | 00 120 1                            | 2,000 00                    |                                       | 2.500 00                               |                                     | \$63,821 68     |
| \$10,911 10<br>2,040 00 | 210 00                                | 528 03                                    | 3,000 00                    | 150 00                     | •                     | 350 00                                    | ••••••••••••••••••••••••••••••••••••••• | ••••••••••••••••••••••••••••••••••••••• | ·<br>·<br>·<br>·<br>· | ·<br>·<br>·<br>·<br>· | IO,000 00                               |   | I,500 00                             | ,                                  | 650 00                                  | ,                                | 650 00            | 650 00                                  |                                      | 250 00                                  | 200 00                                  | 200 00                     | 5,750 00                              | 150 00                        |                                     | 1,000 00                         |                                     | 2,000,00                    |                                       | 2,500,00                               |                                     | \$51,265 03     |
| \$662 80                | · · · · · · · · · · · · · · · · · · · | 414 54                                    |                             | •<br>•<br>•<br>•<br>•<br>• | ·<br>·<br>·<br>·<br>· | •<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | • • • • • • • • • •                     | ••••••••••••••••••••••••••••••••••••••• | •                     | ·<br>·<br>·<br>·<br>· | ••••••••••••••••••••••••••••••••••••••• |   | ·<br>·<br>·<br>·                     |                                    | ·<br>·<br>·<br>·                        |                                  | ·<br>·<br>·<br>·  | ·<br>·<br>·<br>·                        |                                      | ••••••••••••••••••••••••••••••••••••••• | ••••••••••••••••••••••••••••••••••••••• | *<br>*<br>*<br>*<br>*<br>* | •                                     | ·<br>·<br>·<br>·<br>·         |                                     | •<br>•<br>•<br>•<br>•<br>•       |                                     | • •                         | •                                     | • •                                    |                                     | \$1,077 34      |
| \$5,333 96              |                                       | 5 30                                      |                             | 26 31                      | 218 39                | 02  | 10<br>1                                 | I,022 07                                | 379 64                | 4,293 40              | ·<br>·<br>·<br>·<br>·                   |   | •<br>•<br>•<br>•<br>•<br>•<br>•<br>• |                                    | ••••••••••••••••••••••••••••••••••••••• |                                  | •                 | ••••••••••••••••••••••••••••••••••••••• |                                      | ••••••••••••••••••••••••••••••••••••••• | · · · · · · · · · · · · · · · · · · ·   | 200 00                     |                                       |                               |                                     | *<br>*<br>*<br>*<br>*            |                                     | •                           | · · · · · · · · · · · · · · · · · · · | •                                      | •                                   | \$11,479 31     |
| Brought forward         | Crimmins—Mansi Fund                   | Form D. Communs Confection                | Lewisohn Dissertation Fund. | Jas. Loeb Fund             | Wm. G. Low Fund.      | F. A. Schermerhorn Fund                   | Senff Collection in History—1897        | Special Fund—1898                       | Special Fund1899      | Special Fund-rgoo     | Special Fund—rgor                       | Fellowships, Scholarships, and Prizes:<br>Annual Fellowships: School of Medi- | cine                                 | Annual Fellowship in American His- |   | Annual Fellowship in Comparative | Literature        | Annual Fellowship in German             | Annual Fellowship-University Settle- | ment Society.                           | Lawrence Annual Scholarship             | John D. Jones Scholarship. | Special Pulitzer Scholarships         | Toppan Prize in Municipal Law | Philosophy, Philology, and Letters: | Comparative Literature, Salaries | Cermanic Languages and Literatures: | Oriental Languages Salaries | Dhilogothe and Development Colorise   | Pevchology and Anthronology, Salaries. | a damage and initiation of a second | Carried forward |

## TREASURER'S REPORT

| Credit<br>Balances,<br>June 30, 1902 | \$21,862 22     | 12 13   |                            | 3,500 00       |   | · · · · · · · · · · · · · · · · · · · | 1,600 00   | 7,866 57                    | · · · · · · · · · · · · · · · · · · ·              |  | 1,405 55   | •••••• |  | 5 IS              | 400 08                                | \$36,769 45     |
|--------------------------------------|-----------------|---|----------------------------|----------------|---|---------------------------------------|--|-----------------------------|--|--|--|--------|--|-------------------|---------------------------------------|-----------------|
| Payments,<br>1901–1902               | \$41,959 46     |   | 2 I3<br>352 25             | 3,500 00<br>03 | + 54 44                                 | +122 03<br>59 40                      | •  | r,400 00                    | 7,821 05   | IO2 52   |  | 38 oi  | <b>§</b> 3 64  | I,015 08          | · · · · · · · · · · · · · · · · · · · | \$56,432 64     |
| Total Credits                        | \$63,821 68     | 12 13   | 2 I3<br>470 00             | 7,000 00<br>03 | 54 44                                   | 122 03<br>59 40                       | 1,600 00   | 9,266 57                    | 7,821 05<br>2 00                                   | 102 52   | I,405 55   | 38 oI  | 3 64   | 1,015 08<br>5 15  | 400 08                                | \$93,202 09     |
| Receipts,<br>1901–1902               | \$51,265 o3     |   | 2 I3<br>470 00             | 7,000 00       |   |                                       |  | r,210 18                    | 7,821 05   | 102 52   | •  | 38 oI  |  | 1,015 08<br>83 64 |                                       | \$68,928 24     |
| Appropriated<br>by Trustees          | \$1,077 34      | ••••••  |                            |                | ••••••••••••••••••••••••••••••••••••••• |                                       |  |                             |  |  |  |        |  | • •               |                                       | \$1,077 34      |
| Credit<br>Balances,<br>July 1, 1901  | \$11,479 31     | 12 13   |                            | 03             |   | 59 40                                 | 1,600 00   | 8,056 39                    | 2 00   |  | I,405 55   |        | 3 64   | r.51              | 400 08                                | \$23,196 51     |
| Account                              | Brought forward | Feynology and Amunicopology, predat<br>Equipment Fund, 1900 | Departmental Appropriation |                | ratus                                   | Geodesy for Instruments               | Publication of Work on Variation of<br>Latitude. | Catherine Wolfe Bruce Fund. | Chemistry: Supplies<br>Special Equipment Fund—rgoo | Civil Engineering: Departmental Ap-<br>propriation | Do Replace Instantants Destroyed<br>britantical Fire | 1 :    | Mechanical Engineering: On account<br>Special Outfit | School            | recutatios. opectat pd urpitent r und | Carried forward |

# 412

# TREASURER'S REPORT

| \$36,769 45  | 053 00   |                                     | ••••                                    | 0.407 I8                             | 1,219 39              |                                      | 660 56                                | IO IÓ                               |                                  | 12 35                                   | 195 00                         | •  |                              |                                   | 1/ 062                | 3,000 00                   |   |                | 839 00                  | \$53,452 93   | ecial Fund "   |
|--|--|-------------------------------------|---|--------------------------------------|-----------------------|--------------------------------------|---------------------------------------|-------------------------------------|----------------------------------|---|--------------------------------|--|------------------------------|-----------------------------------|-----------------------|----------------------------|---|----------------|-------------------------|---|--|
| \$56,432 64  | 31<br>2,346 91   |                                     | 5 47                                    | 5.300 00                             | 2,610 63              | 6                                    | 3¢<br>                                | • • • • • • • • •                   |                                  | ••••••••••                              | 355 00                         | IQ   |                              |                                   | 4,710 73              | •<br>•<br>•<br>•<br>•      | 800 72                                  |                | • • • • • • • • •       | \$72,762 88   | "Tihrary Sr  |
| \$23,196 51   \$1,077 34  \$68,928 24   \$93,202 09  \$56,432 64   \$36,769 45 | 3.300 00   | 2                                   | 5 47                                    | 14.707 IS                            | 3,830 02              | 0                                    | 660 56                                | IO IÓ                               |                                  | 12 35                                   | 550 00                         | IO   |                              |                                   | 5,007 44              | 3,000 00                   | 800 72                                  |                | 839 00                  | \$45,572 I9 \$1,077 34 \$79,566 28 \$126,215 81 \$72,762 88 | ion.   |
| \$68,928 24  | 3,300 00   |                                     | ••••••••••••••••••••••••••••••••••••••• | 486 03                               | 2,775 00              |                                      | · · · · · · · · · · · · · · · · · · · |                                     |                                  | ••••••••••••••••••••••••••••••••••••••• | ·<br>·<br>·<br>·<br>·          |  |                              | ,                                 | 70 29                 | 3,000 00                   | 800 72                                  |                | *<br>*<br>*<br>*<br>*   | \$79,566 28   | of appropriat  |
| \$1,077 34   | 31   |                                     | ••••••••••••••••••••••••••••••••••••••• |                                      | •                     |                                      |                                       | ·<br>·<br>·<br>·<br>·               |                                  | •                                       | ·<br>·<br>·<br>·               |  |                              |                                   | *<br>*<br>*<br>*<br>* | •<br>•<br>•<br>•<br>•<br>• |   |                | •                       | \$1,077 34  | led balance o  |
| \$23,196 51  | 31   |                                     | 5 47                                    | 14.3II IS                            | I,055 02              |                                      | 32<br>660 56                          | IO IÓ                               |                                  | 12 35                                   | 550 00                         | 10   | ,<br>,                       |                                   | 4,931 IS              | •<br>•<br>•<br>•<br>•<br>• | ••••••••••••••••••••••••••••••••••••••• |                | 839 00                  | \$45,572 19   | .33 unexpend   |
| •  | Metallurgy: Laboratory Equipment<br>Metalluroy: Special Fund | Metallurgy: Special Equipment Fund. | Igoo                                    | Mining and Metallingy: Special Fund. | Mining: Special Fund. | Mining: Special Equipment of Labora- | Zoology: Senff Zoological Expedition. | Zoology: Special Fund for Equipment | Zoology: Special Equipment Fund, | IgoI                                    | Zoölogy: Special Fund for 1901 | 20010gy: Special Fund for 20010g1cal<br>Fourinment | School of Political Science: | Historical Reading Room Equipment | Fund                  | Chinese: Salaries          | Physiological Chemistry, Supplies       | Miscellaneous: | Alexander M. Welch Gift |   | * Account closed by transfer of \$772.33 unexpended balance of appropriation.<br>+ Social Eurode for 2000 and 1000 hours been consolidated into one sociant known as "Library Special Fund " |

† Special Funds for 1899, 1900, and 1901 have been consolidated into one account known as "Library Special Fund."
 ‡ These Credits emanated in an appropriation and have been turned back.
 § \$3.64 transferred from "Mechanical Engineering: On Account of Special Outfit" to "Mechanical Engineering: Special Fund for Equipment."
 Special Fund for Equipment."

### TREASURER'S REPORT

# SUNDRY GIFTS AND LEGACIES ACC'T

| Low Library Gift                          | \$1,100,639 | 32 |
|---|-------------|----|
| William C. Schermerhorn Gift              | 458,133     | 18 |
| Havemeyer Gift                            | 414,206     | 65 |
| Fayerweather Legacy                       | 318,235     | 94 |
| William E. Dodge for Earl Hall            | 164,950     | 82 |
| Alumni Memorial Hall Gift                 | 100,000     | 00 |
| Charles Bathgate Beck Legacy              | 40,000      | 00 |
| Class of '82 Gift (120th Street Gate)     | 1,500       | 00 |
| Other contributions for Bloomingdale Site | 331,150     | 00 |
| Bequest of the late Henry Villard         | 50,000      | 00 |
| Edward L. Stabler Gift                    | 1,200       | 00 |

\$2,980,015 91

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### STATEMENT AS TO ARREARS OF RENT, JUNE 30 1902

| Arrears of Rent, July 1, 1901  |                    |
|--|--------------------|
| Arrears accrued during year 1901-02  | \$5,032 00         |
| Estate of Geo. W. Bassett6 months to May 1, 1902.  | \$1,300 00         |
| Edward F. Anderson, Trustee6 months to May 1, 1902.<br>Gabriel A. HealyBalance to May 1, 1902. | 1,250 00<br>875 00 |
| Elvira Fischer-Hansen 6 Months to May 1, 1902.   | 525 00             |
| Miss A. M. Somerville  | 357 00             |
| Imogen BrownBalance to May 1, 1902   | 725 00             |
|  | \$5,032 00         |

NEW YORK, August 15, 1902.

We hereby certify that we have examined the accounts of the Treasurer of Columbia College for the year ending June 30, 1902, and find them to be correct and duly vouched for.

> PATTERSON, TEELE & DENNIS, Certified Public Accountants.



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