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PUBLICATIONS
OF THE
FIELD COLUMBIAN MUSEUM

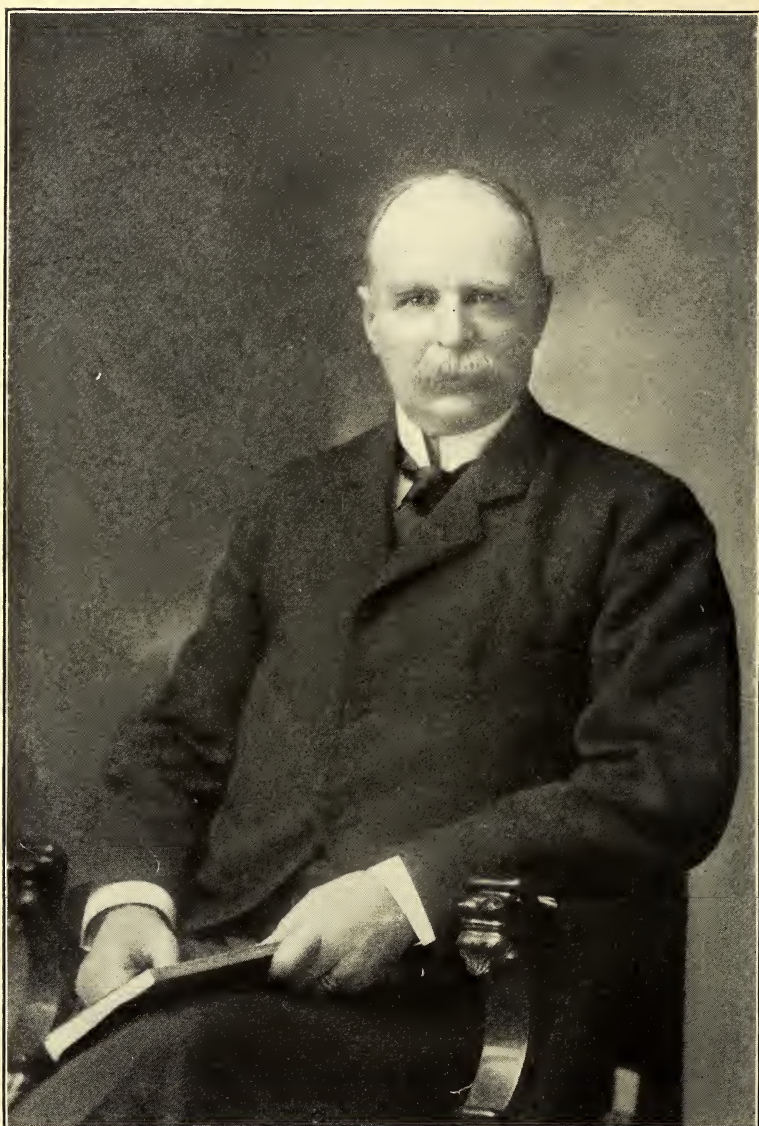
REPORT SERIES
VOLUME II

14884



CHICAGO, U. S. A.
1901-1905.

1900-1906
MONTANA & WYOMING
SOCIETY



THE LATE NORMAN WILLIAMS,
An Incorporator of the Museum.

FIELD COLUMBIAN MUSEUM

PUBLICATION 62.

REPORT SERIES.

VOL. II, No. I.

ANNUAL REPORT OF THE
DIRECTOR

TO THE

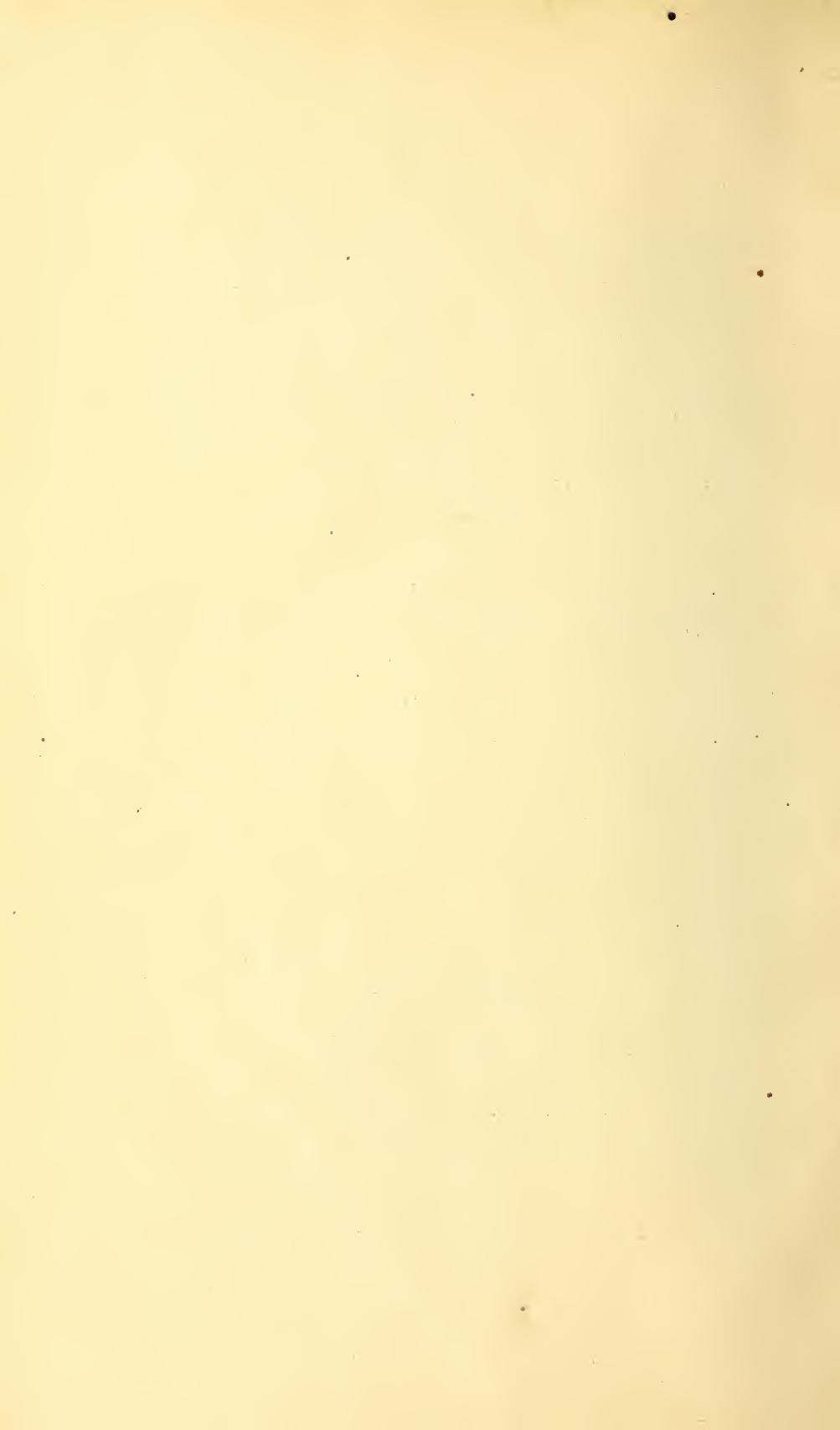
BOARD OF TRUSTEES

FOR THE YEAR 1900-1901



CHICAGO, U. S. A.

October, 1901.



121 - 04

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CHARLES B. CORY, *Curator*.

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D. C. DAVIES.

THE LIBRARY.

ELSIE LIPPINCOTT, *Librarian*.

TAXIDERMIST - IN - CHIEF.

CARL E. AKELEY.

ANNUAL REPORT OF THE DIRECTOR.

1900-1901.

To the Trustees of the Field Columbian Museum :

I have the honor to present the Report of the operations of the Museum for the year closing September 30, 1901. The expenses of the Museum under the head of maintenance have been in excess of the budget this year, but, as a matter of fact, the large amount of money that was expended for re-supporting the main floor, having been done under special instructions of the President, is not a proper charge against maintenance. If this fact is taken into consideration, the expenditures have been under the budget.

It would seem from the permanent improvements recorded each year that the building is gradually being reconstructed. This, as a matter of fact, is true as concerns the offices, laboratories, etc., but the growing needs of the Museum and the expanding processes necessary to meet the demand of the departments are but an index of the development of the entire Institution. More and more each year the Museum finds itself equipped to perform all the necessary labor; not only the technical and scientific labor, but the ordinary mechanical work as well, and the circumstances are unusual when outside agencies are employed.

The Institution has been honored by the visits of a great many officers and students of Museums at home and abroad, and there has been a universal reference to its advancement and approval of its methods. The Report in its detail will determine the healthy condition of the affairs of the Museum and will point to the extension of its investigations and influence into all fields within its scope and to all parts of the world. The improvements in installation, in accordance with the strictest scientific standard, is steadily in progress. Inappropriate and undesirable material is constantly disappearing to be supplanted by that which is nearer the standard, and the Museum is doing *Museum* work; while the laboratory and the study is not neglected, yet the fact that the Museum is dedicated to the enlightenment, instruction and in a measure to the entertainment of the public, is not ignored, and those things calculated to advance this policy are

those that most engage the attention of the officers of the Institution. As a natural consequence, the general appearance of the Museum is never the same, constant additions, changes and renewals, etc., making the exhibition halls always fresh and inviting.

STAFF OF THE MUSEUM.—The following changes and additions in the Staff may be noted: Mr. Charles L. Owen was appointed Assistant Curator of Archæology, and Mr. W. J. Gerhard Assistant Curator of Entomology. The services of Mr. J. W. Hudson as Field Ethnologist were secured, and Mr. Edmund Heller succeeded Mr. Surber as Collector of Mammals. Professor Merton L. Miller of the University of Chicago accepted an assignment to collect ethnological material for the Museum in the States of Washington and Oregon during the summer months, and the services of Mr. C. F. Newcombe were obtained to represent the Museum as Field Ethnologist in the Queen Charlotte Islands. The Executive Committee sanctioned during the year the appointment of an artist, and the services of Mr. Ernest St. John were secured.

INCOME AND MAINTENANCE.—The budget authorized by the Executive Committee provided the sum of \$102,000.00 for the maintenance of the Museum for the year ending September 30, 1901. The amount expended was \$108,220.00, showing a balance in excess of the estimated expenses of \$6,220.00. In addition to this amount, \$52,325.00 was expended by authority of the Executive Committee for collections, expeditions, etc., bringing the total expenditure for the year to \$160,545.00. In explanation of the excess in maintenance, it should be borne in mind that the Executive Committee has during the year increased the stipend of a number of individuals in the employ of the Museum and has also added several assistants to the working force. There is also a large increase this year in the amount expended for repairs and alterations to the building. While last year the amount spent for cases was \$10,180.00, this year the figures show \$21,505.00, an amount more than double. The Trustees having arrived at the conclusion that the Columbus Caravels were not in sympathy with the collections in the Museum, it was decided to dispose of them if possible, and with this end in view the Board of South Park Commissioners was approached, and they agreed to accept the title to these interesting objects, releasing the Museum from all liability, for a consideration of \$3,000.00.

THE MEMBERSHIPS.—There still has to be recorded a decrease in the annual memberships, due, as has been previously reported, to the fact that no effort is made to increase the list.

LECTURE COURSES.—The usual two courses have been given, but unfortunately a decrease in the attendance has to be noted. This lack of interest may be accounted for by the fact that a casual review of the syllabuses would indicate by the titles of the lectures more technical discourses than had obtained in previous courses. Furthermore, the great increase in the number of lectures given by different institutions in Chicago has probably tended to diminish the interest in any course of free lectures. Following is a list of the lectures given during the year:

FOURTEENTH LECTURE COURSE.

- Oct. 6.—“How Plants Live” (Illustrated).
Prof. Charles R. Barnes, University of Chicago.
- Oct. 13.—“Do Invertebrates Have Consciousness?” (Illustrated).
Dr. H. V. Neal, Knox College, Galesburg, Ill.
- Oct. 20.—“Wyandotte and Marengo Caves” (Illustrated).
Prof. O. C. Farrington, Curator, Department of Geology.
- Oct. 27.—“The Life and Death of a Tree” (Illustrated).
Dr. Thomas H. Macbride, State University of Iowa.
- Nov 3.—“Porto Rico and Its People” (Illustrated).
Dr. Barton W. Evermann, Ichthyologist of the United States Fish Commission.
- Nov. 10.—“Mining in the Ozarks” (Illustrated).
Prof. H. W. Nichols, Assistant Curator Department of Geology, Field Columbian Museum.
- Nov. 17.—“Variation of Organisms” (Illustrated).
Dr. C. B. Davenport, University of Chicago.
- Nov. 24.—“Picturesque Mexico” (Illustrated).
Mr. P. V. Collins, Minneapolis, Minn.

FIFTEENTH LECTURE COURSE.

- March 2.—“The Kiowa Indians—A Typical Buffalo Tribe” (Illustrated).
Mr. James Mooney, Bureau of Ethnology, Washington, D. C.
- March 9.—“The Hills and Valleys of Wisconsin and Their Life History” (Illustrated).
Dr. E. R. Buckley, Wisconsin Geological and Natural History Survey.

- March 16.—“The Diamonds of the Kettle Moraine and Their Ancestral Home” (Illustrated).
Prof. Wm. H. Hobbs, University of Wisconsin.
- March 23.—“The Evolution of Means of Transportation in America” (Illustrated).
Prof. Edwin Erle Sparks, University of Chicago.
- March 30.—“Some Interesting Insects” (Illustrated).
Mr. E. B. Chope, Assistant in Department of Zoology.
- April 6.—“Deep Sea Fishing and Fishes” (Illustrated).
Dr. S. E. Meek, Assistant Curator Department of Zoology.
- April 13.—“The Ancient Pueblos of Arizona” (Illustrated).
Dr. J. Walter Fewkes, Bureau of Ethnology, Washington, D. C.
- April 20.—“Tour of the Plant World—West Indies” (Illustrated).
Dr. C. F. Millspaugh, Curator Department of Botany.
- April 27.—“Jamaica—The Princess of the Antilles” (Illustrated).
Dr. C. F. Millspaugh, Curator Department of Botany.

PUBLICATIONS.—This means of recording the results of original research and also of recent acquisitions proves eminently satisfactory, and, judging from the complimentary references made from time to time by prominent scientists and journals, the standard reached is very high. “A Synopsis of the Mammals of North America and the Adjacent Seas” was issued during the year and the following excerpt from a review of the work by a prominent scientist may be of interest in connection with the typographical appearance which characterizes the Museum publications:

“The book is well printed, though on glazed paper that is probably ill-adapted to withstand constant use. This, however, was rendered necessary by the profuse half-tones with which the text is illustrated. As if to compensate for the brevity of the text, the book is illustrated with a profuseness hitherto unknown in similar works. The plates and text figures contain half-tone reproductions of photographs of the skull and teeth of at least one representative of nearly every genus and sub-genus. The standing of excellence of these figures is very high, and no equally successful application of photography to zoological illustration on so extensive a scale has hitherto been made.”



LARGE MALE IN GROUP OF STONE'S ALASKA BLACK SHEEP (*Ovis stonei*) —FIELD COLUMBIAN MUSEUM.

Below will be found titles of the publications issued since October 1st last, with the number of pages and illustrations :

- Pub. 45.—Zool. Ser., Vol. 2. "Synopsis of the Mammals of North America and the Adjacent Seas." By D. G. Elliot. 471 pp., edition 1,100, illustrations 143 (half-tones).
- Pub. 51.—An. Ser., Vol. 2, No. 4. "An Aboriginal Quartzite Quarry in Eastern Wyoming." By G. A. Dorsey. 13 pp., edition 1,000, illustrations 12 (half-tones).
- Pub. 52.—Report Ser., Vol. 1, No. 6. "Annual Report of the Director." 86 pp., edition 2,000, illustrations 14 (13 half-tones, 1 zinc etching).
- Pub. 53.—Geol. Ser., Vol. 1, No. 8. "Observations on Indiana Caves." By O. C. Farrington. 27 pp., edition 1,000, illustrations 11 (9 half-tones, 2 zinc etchings).
- Pub. 54.—Zool. Ser., Vol. 3, No. 3. "List of Mammals obtained by Thaddeus Surber, Collector for the Museum, in the Provinces of New Brunswick and Quebec, Canada." By D. G. Elliot. 17 pp., edition 1,000, no illustrations.
- Pub. 55.—An. Ser., Vol. 3, No. 1. "The Oraibi Soyal Ceremony." By G. A. Dorsey and H. R. Voth. 136 pp., edition 1,000, illustrations 37 (half-tones).
- Pub. 56.—An. Ser., Vol. 2, No. 5. "Archæological Investigations on the Island of La Plata, Ecuador." By G. A. Dorsey. 161 pp., edition 1,000, illustrations 72 (63 half-tones, 9 zinc etchings).
- Pub. 57.—Zool. Ser., Vol. 2, No. 2. "A List of the Land and Sea Mammals of North America, North of Mexico." Supplement to the Synopsis. By D. G. Elliot. 64 pp., edition 1,000, illustrations 7 (half-tones).
- Pub. 58.—Zool. Ser., Vol. 3, No. 4. "A List of Mammals obtained by Thaddeus Surber in North and South Carolina, Georgia, and Florida. By D. G. Elliot. 21 pp., edition 1,000, illustrations 6 (half-tones).
- Pub. 59.—Zool. Ser., Vol. 3, No. 5. "The Caribou of the Kenai Peninsula." By D. G. Elliot. 12 pp., edition 1,000, illustrations 3 (half-tones).

The following table shows the number and classes of foreign and domestic addresses at present included in the mailing list:

OFFICIAL:

Trustees,	12
Staff,	10
Corporate Members,	3
Honorary Members,	3
Annual Members,	328

RECEIVED PUBLICATIONS IN ALL DEPARTMENTS:

	Domestic.	Foreign.
Individuals,	9	10
Universities, Schools and Colleges,	60	37
Museums and Gardens,	6	38
Academies and Institutes,	29	19
Societies,	24	49
Libraries,	59	27
Government and State Departments,	11	2
Journals,	11	17

RECEIVED PUBLICATIONS IN ONE OR MORE DEPARTMENTS:

	DOMESTIC.							Z.
	*A.	B.	G.	†H.	†I.A.	†O.	†T.	
Individuals,	79	54	110	5	..	10	1	37
Universities, Schools and Colleges,	3	28	11	7	2	1	1	28
Museums and Gardens,	9	6	6	..	..	..	..	7
Academies and Institutes,	3	2	1	7	3	..	2	1
Societies,	11	13	11	13	3	4	4	12
Libraries, . . . . .	..	2	1	18	..	..	..	4
Journals,	12	9	6	..	..	2	2	4
Government and State Departments,	1	8	16	4	..	..	..	14

	FOREIGN.							Z.
	*A.	B.	G.	†H.	†I.A.	†O.	†T.	
Individuals,	49	27	51	..	..	5	..	21
Universities, Schools and Colleges, . . . . .	..	..	5	..	..	1	..	9
Museums and Gardens,	9	5	5	..	..	1	..	5
Academies and Institutes,	3	..	7	..	..	1	..	3
Societies,	12	12	19	..	..	3	..	25
Libraries,	1	..	..	..	..	..	..	..
Journals,	12	2	5	..	..	3	..	2
Government and State Departments, . . . . .	..	5	15	..	..	..	..	7

The distribution to foreign countries is still continued through the Bureau of International Exchanges of the Smithsonian Institution.

*A., B., G., H., I.A., O., T. and Z. denote Anthropology, Botany, Geology, History, Industrial Arts, Ornithology, Transportation and Zoology.

† Nothing issued in departments indicated by dagger during year ending September 30, 1901.

THE LIBRARY.—During the year there have been added to the library 1,461 volumes and 2,462 pamphlets, making the total number of accessions 28,272. The growth of the library has been greater this year, chiefly owing to the fact that the most important scientific institutions now readily respond with their publications in exchange for the Museum series. An indication of its growth is illustrated by the fact that the accommodation for the card catalogue has had to be substantially increased. The cataloguing is kept up to date and all the catalogues are being revised. Attention should be drawn to the fact that a number of publishers have placed the Museum on the free list of their journals, in exchange for its publications—another evidence of the appreciation in which the institution and its work are held. An inventory is now being taken of all books and pamphlets in the library.

Among the gifts, special mention should be made of those received from the Biblioteca Nacional, Santiago de Chile; Boston Museum of Fine Arts; New York Botanical Gardens; Pennsylvania State Library; Duc de Loubat, Paris, France; and George Watt, M. B., Calcutta, India.

The volumes and pamphlets in the Library are distributed as follows:

	Books.	Pamphlets.
General Library,	9,359	12,844
Department of Anthropology,	243	90
Department of Botany,	438	244
Department of Geology,	1,583	2,819
Department of Ornithology,	368	...
Department of Zoology,	284	...

THE RECORDS.—The system of recording accessions and inventoring specimens still works effectively. The total number of specimens accessioned during the year has been 39,002. Classification of the accessions follows:

	Accessions.	Specimens.
Gifts,	170	15,608
Loans,	3	270
Exchanges,	54	4,073
Collected,	51	14,443
Purchased,	53	4,068
	<u>331</u>	<u>39,002</u>

DEPARTMENTAL CATALOGUING, INVENTORYING AND LABELING. — The work of cataloguing in the Department of Anthropology has proceeded as usual during the year. The more important collections which have been catalogued are those which have been made by Assistant Curator Simms in Arizona, by Curator Dorsey in Oklahoma, the Wyman Collection, and the collection of Caldera, Chili, presented by Mr. Cyrus H. McCormick. The services of Prof. Tarbell of the University of Chicago, were secured by special arrangement and he has devoted a large amount of time to the preparation of labels for the collections in the north court, illustrative of the Archæology of Europe. The number of labels printed for the department has been smaller than in previous years, this being due to the fact that the work in the printing office has recently so increased as to overtax its capacity. All specimens received during the year in the Department of Geology have been promptly numbered and catalogued and any available data regarding them preserved. It is satisfactory to know that the Curator reports that records are now on file for all specimens in the Department. The entries in the inventory books of the Department of Zoology number more than in any previous year, so that the books of this Department are now in a very satisfactory state. A number of cards have also been added to the index and it may be safely stated that the clerical work this year has had more attention than usual and that the recording of material has kept pace with the receipt of new acquisitions. The inventory books in the Department of Botany are in a highly satisfactory condition, the number of specimens entered being over 19,000 for the year. The year's work in the Museum on catalogues and inventories is shown in detail as follows:

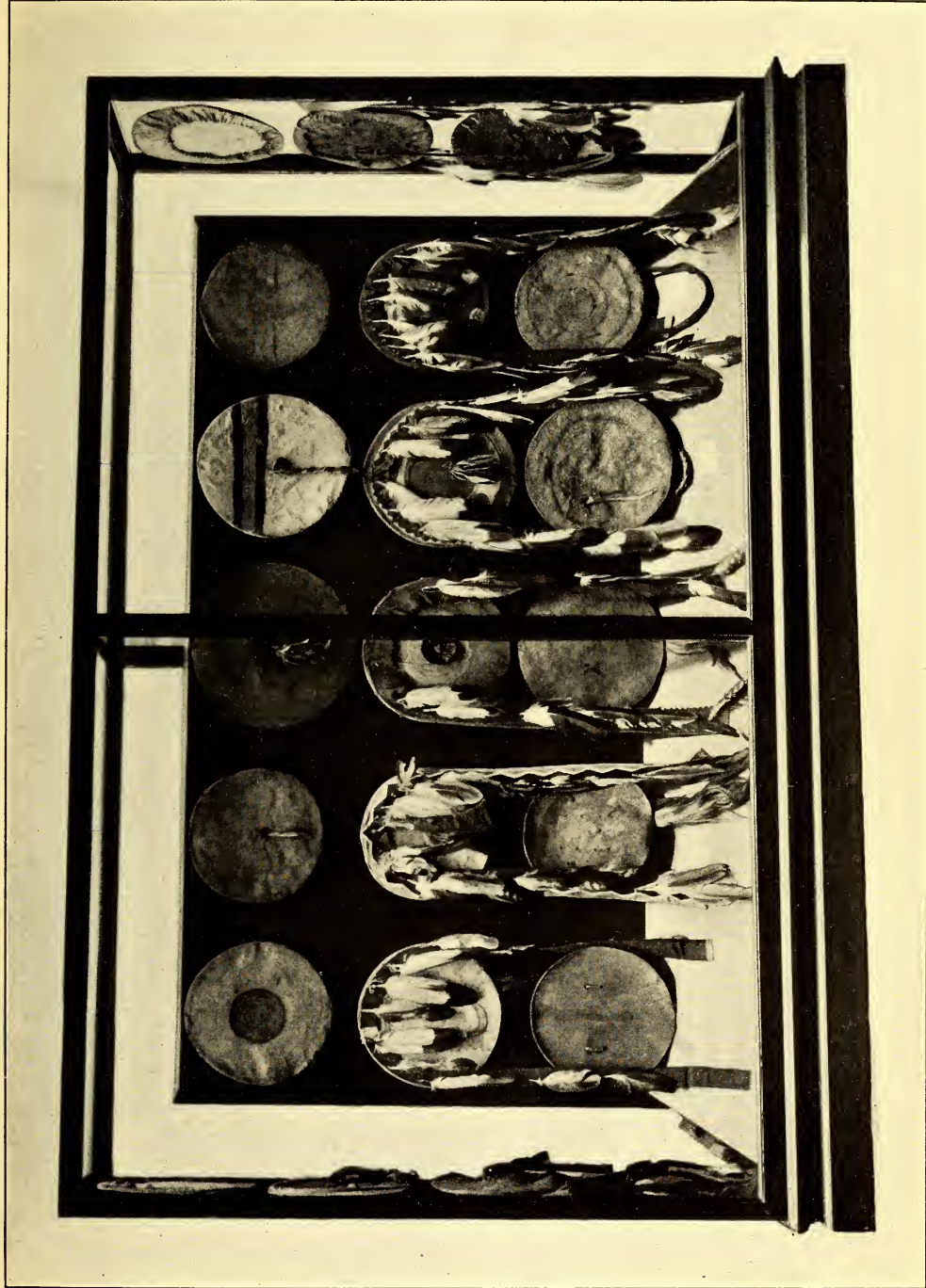
DEPARTMENT.	No. of Record Books.	Total No. of Entries to Sept. 30, 1901.	Entries during 1900-01.	Total No. of Cards Written.
Anthropology,	22	45,925	4,262	48,786
Botany,	31	101,238	19,428	2,600
Geology,	11	28,973	2,803	6,000
Library,	3	28,272	4,073	15,726
Ornithology,	3	11,069	.....	.....
Photography,	4	6,392	.....	.....
Zoology,	20	23,992	1,922	12,100

ACCESSIONS.—There continues to be constant growth in material in the various departments through purchases and the results of field work. In many cases collections and specimens have been presented to the Museum. Notably was this the case in the acquisition by the Department of Anthropology of the Watron collection,

obtained through the liberality of Mr. Stanley McCormick. This collection comprises nearly 3,000 specimens from certain important Hopi and Zuni ruins, and with the specimens secured by previous expeditions made possible through Mr. McCormick's generosity, has placed the Department in possession of between 7,000 and 8,000 pieces of pre-historic pottery. Other important accessions in this department have resulted from several expeditions in the field; Mr. Newcombe among the Haida Indians, Mr. Miller among the tribes of the Shahaptian stock, Mr. Hudson in California, Assistant Curator Simms among tribes of the Puman and Yuman stock, Assistant Curator Owen among the Apache and Navajo tribes, and Curator Dorsey among the Osage, Pawnee and Wichita tribes. A valuable collection of over 200 sets of games of the North American Indians has been added, as well as also eight buffalo shields, the latter being secured by exchange with the National Museum. In addition to these very large collections, certain other accessions are deserving of mention. Chief among the purchases of the year is that of the collection comprising about 300 copper implements and about 900 stone implements from Wisconsin and six well-authenticated and well-preserved wampum treaty belts; also, by purchase from Mr. Wyman, were obtained two very handsome buckskin suits, secured by the artist, Mayer, in 1864, from the Sioux, in Western Minnesota. These suits are of the highest interest and value on account of their age and excellent state of preservation. Two other old Klamath suits of buckskin, believed to be the only suits of that reservation, were also secured by purchase. A small but interesting collection illustrating certain phases of the life of the Winnebago Indians of Wisconsin was purchased from Mr. T. R. Roddy. Another interesting acquisition was that of two Zuni shields, pictured by Mr. Cushing in the Second Report of the Bureau of Ethnology, and described by him as the "Fetiches of the Priesthood of the War Bow," a Zuni esoteric society. The shields were among the most sacred possessions of the Zuni and were acquired by purchase from a dealer. An exchange with the National Museum enabled the Museum to obtain eight buffalo shields of the highest value to the collection. It may be of interest to note in connection with the two acquisitions of shields above mentioned, that the Curator of the Department secured during the summer from one tribe seventeen shields, and that Assistant Curator Owen secured two from another tribe, so that the Museum is now in possession of nearly forty of these important and characteristic objects of the Plains Indians. The Division of Somatology secured by exchange with Mr. David Boyle, of the Archæological Museum, Toronto, an invaluable collection

of over fifty skulls of the early Hurons of Ontario. These form a most valuable addition to the already extensive collection of osteological material from that country. By purchase twelve additional specimens of carved Papuan crania were secured. Further material of this nature was also secured from the University of Pennsylvania by exchange; from Mr. Fred Harvey, by gift; while the amount secured by expeditions in the field was unusually large. From the Paris Exposition of 1900 about 1,200 specimens of ores and minerals were received and added to the collections in the Department of Geology. These included a complete series of zinc ores of the United States, gold and silver ores from a number of mines of the Western and Southern States, a nearly complete series of iron ores of the United States, mercury ores from the United States and Russia, etc. A number of bones of the Mastodon were obtained from Morocco, Ind. Three falls have been added to the meteorite collection by purchase. The work in the dinosaur quarries in western Colorado was the means of adding a large quantity of material. As usual the most valuable accessions in the Department of Zoology were obtained by collectors in the field, making it possible for the Curator to obtain reliable data regarding each specimen. Several specimens were, however, added by purchase. The gift of Messrs. Kennedy and Stevenson of a group of Mexican deer and the purchase of a number of species of African antelope now nearly extinct must be considered important. A fine specimen, with the skeleton, of a sea lion sixteen feet in length was also secured. The dispatching of Assistant Curator Meek to Mexico in the spring of the year resulted in the adding of over 5,000 Ichthyological specimens. A report of this expedition is being prepared for publication. Over 8,000 entomological specimens were presented to the Museum during the year and 683 were collected in the field. The notable additions to the Department of Botany are as follows: 505 European specimens, 136 Oregon specimens, 417 plants collected by the Curator in Jamaica, 416 St. Croix plants, 1,176 Illinois and Indiana plants collected and arranged by Prof. Umbach, 214 Natal plants received from the Botanical Gardens of Natal, etc. Much economic material has also been received and added to this department, chiefly by gift, and the display contemplated in the galleries during the next year will, it is anticipated, attract considerable attention.

EXCHANGES.—It is of the highest importance that this system of acquiring material be extended, as it undoubtedly engenders concurrent effort in the scientific field. Collectors in the field naturally obtain much duplicate material, and if it was so desired several indi-



OSAGE SHIELDS OF BUFFALO HIDE, WITH OUTER AND INNER DECORATED COVERS OF BUCKSKIN—FIELD COLUMBIAN MUSEUM.

vidual collections might be prepared with very little extra effort, for exchange with institutions who would respond in the same manner. Exchange relations have been opened this year with several new institutions and individuals, both abroad and at home, to the mutual satisfaction of the parties concerned.

EXPEDITIONS AND FIELD WORK.—The number of expeditions in the field this year outnumbered any sent out in previous years. The complete list indicates the gentlemen who had charge of the expeditions, the localities they visited, and the material they obtained:

Locality.	Collectors.	Material.
Jamaica, West Indies, . . .	C. F. Millspaugh, . . .	Photographic and Plant material.
Southern Illinois, . . .	W. A. Phillips, . . .	Quarry, Shop and Mound Collections of Archæological material.
Arizona and California, . . .	S. C. Simms, . . .	Ethnological Collections from Tribes of the Piman and Yuman Stocks.
California, . . .	J. W. Hudson, . . .	Ethnological Collections from Tribes of the Mariposan and Maquelumman Stocks.
Central Mexico, . . .	S. E. Meek and F. E. Lutz,	Reptiles, Fishes, Mammals and Insects.
Western Colorado, . . .	E. S. Riggs, . . .	Dinosaurs.
Arizona, . . .	Chas. L. Owen (Stanley McCormick Exped'n),	Archæological Collection from Prehistoric Hopi Graves in Ruins of Walpi and Mishongnovi.
Hopi, Arizona, . . .	Geo. A. Dorsey (Stanley McCormick Exped'n),	Ethnological Collection.
Southern Illinois, . . .	W. A. Phillips, . . .	Archæological material from Cobden, Ill., and Hot Springs, Ark.
Columbia River Basin, . . .	Merton L. Miller, . . .	Ethnological and Archæological Collections from Shaphtian Tribes.
Queen Charlotte Islands, British Columbia, . . .	C. F. Newcombe, . . .	Totem Poles, Grave Carvings, Skeletons and General Haida Ethnology.
Apache and Navajo Indians, Arizona, . . .	Chas. L. Owen, . . .	Ethnological Collection.
Oklahoma, . . .	Geo. A. Dorsey, . . .	Ethnological Collections from Osage, Pawnee and Wichita Indians

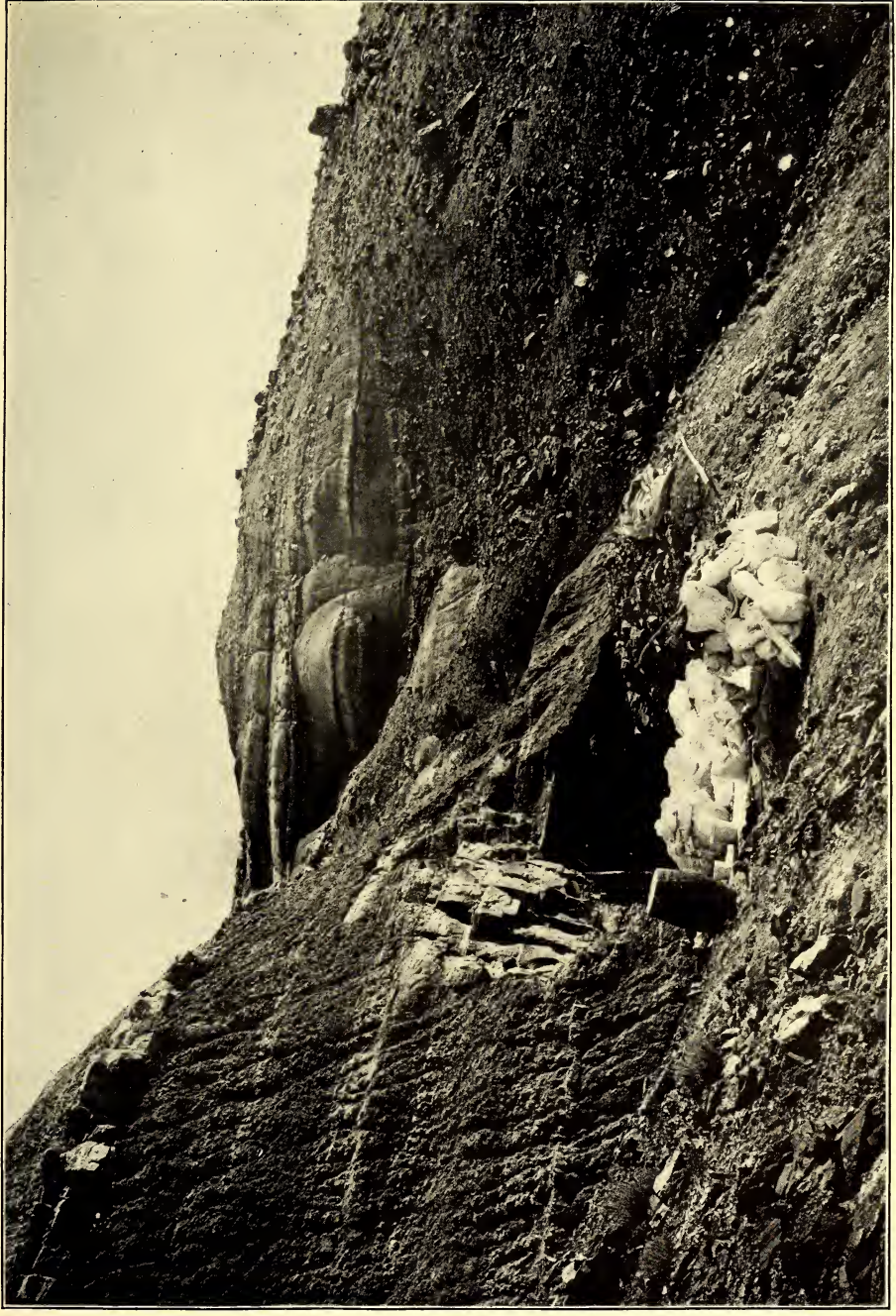
In the last Report mention was made of the expedition of Assistant Curator Owen among the Hopi, through the generosity of Mr. Stanley McCormick. The expedition returned in November after a most successful summer's work, during which time eight ruins were visited, all of which yielded large collections of the highest interest and value. Mr. McCormick's further interest in this work made possible its continuation this spring, with the result that a large amount of material was obtained from the ruins of old Walpi and Mishongnovi, the specimens secured from the former ruin numbering about two thousand, amongst which were hundreds of bahos or prayer sticks, painted stoneslabs, effigies, and many forms of pottery new to science, both in their form and decoration. Objects illustrative of the religious life of the Hopi, of which probably the most interesting was the reredos of the altar of the Drab Flute Society of Mishongnovi, were procured on this expedition. Two months' collecting of Ethnological specimens from the White Mountain Apache and Navajo resulted in the acquisition of over five hundred objects illustrating the daily and religious life of the tribes mentioned. Early in January of this year Assistant Curator Simms was dispatched to Arizona where he remained three months, pursuing ethnological investigations among the various tribes of the Piman and Yuman stocks. Owing to the fact that these tribes had not been previously represented in the collections of the Museum to any considerable extent, the material and information obtained by Mr. Simms are of unusual value. During the past year J. W. Hudson became associated with the Department of Anthropology and was assigned to work in California. His work will continue through this and the following year, and will have for its object the careful study of certain little-known tribes. An extremely large collection, embracing many categories of objects of the tribes of the region that he has thus far visited, has already been catalogued and accessioned. It is also highly probable that as a result of his investigations much new light will be thrown upon many heretofore obscure problems of the ethnology of this region. During the five summer months M. L. Miller, from the University of Chicago, investigated for the department certain Shahaptian tribes of the Columbia River basin. This region was practically unrepresented in the collections of the Museum, and as a result of Mr. Miller's work a very large collection of the highest interest and value has been secured, thus filling an important gap in the collections illustrating the Ethnology of North America. The department has also secured many valuable specimens from the Haida Indians of the Queen Charlotte Islands, through an

arrangement with C. F. Newcombe of Victoria. A large number of skeletons, skulls and general ethnological material secured in this region is of exceptional interest. An extremely large totem pole, a finely carved interior house-post, a large memorial column and many carvings from shaman's graves must also be noted. Mr. Phillips, of Evanston, again visited southern Illinois for the purpose of continuing his investigations in aboriginal quarry shops. He was also enabled to secure specimens from the novaculite quarries in Arkansas which will make more complete the series from this locality already in possession of the Museum. Mr. Millspaugh, Curator of the Department of Botany, visited Jamaica, West Indies, with the result that a large number of photographs and notes of tropic fruit culture were obtained, and a small but valuable series of plants collected. Working of the dinosaur quarries in Colorado, which were discovered and partially exploited a year ago, was continued during several months of the summer by a party under the direction of Assistant Curator Riggs. A large quantity of remains was obtained which belonged to a single individual of the genus *Brontosaurus*. The remains secured are as follows: Eleven presacral, five sacral and twenty-three caudal vertebræ, all in series; one femur, one ilium, two pubes, two ischia, fifteen ribs and numerous chevrons and small bones. All these bones are in an excellent state of preservation and when cleaned and mounted will make an impressive and instructive display. The work of securing them involved considerable blasting, tunneling and the construction of a temporary ferry. In addition to the above, several specimens of fossil insects were obtained and about sixty-five excellent negatives giving landscape and quarry views of the region were made. Grateful acknowledgments are due the officials of the Chicago, Burlington & Quincy and the Denver & Rio Grande Railroads for assistance in the work of this expedition. Mr. Surber, the regular collector in the Department of Zoology, resigned in the early spring and Mr. Edmund Heller was engaged to succeed him. He is now at work on the Pacific coast, where he has been unusually successful, having in a short space of time added a number of species not represented in the collections. The visit of Mr. Meek, accompanied by a volunteer assistant, to Southern Mexico for the purpose of collecting mammals, fishes, reptiles and insects, was highly important. The collection of fishes obtained was naturally the largest and most important from a scientific standpoint, as it will furnish more material to work out the geographical range of the North American forms which are found in Southern Mexico, and

the limit of South American fishes which are found in Central America and which go north into Southern Mexico, that has been collected in that country. A large amount of duplicate material, valuable for exchange, was also secured. Six hundred and eight specimens of reptiles were added to the collections during the past year, nearly all of which were procured in the field.

INSTALLATION, REARRANGEMENT AND PERMANENT IMPROVEMENT.—More repairs and alterations to and around the building have been made during the past year than any in the history of the institution. The renewal of the building foundations has been continued and is complete with the exception of those in the east annex, which will be finished by the end of December. The floors of the east and west entrances to the main building have been entirely taken up and rebuilt with brick, iron and concrete. The exterior of the building still demands constant attention and the plastering done a year ago had to be entirely renewed. The repairs to the roof are maintained and this year the entire area was given a coat of paint. The alterations in the building have been more extensive than in any previous year. The photographic gallery has been enlarged, as also the printing office, and a new office provided for the Curator of Botany on the first gallery. The Librarian's office was completely renovated, the walls calcimined, and a hardwood floor laid. More light was demanded and a window was opened in the west wall. Additional light and ventilation were also provided in the sleeping room of the firemen. An unusually large number of cases have been built and several old cases ebonized and mahoganzed, so that there are now comparatively few of what might be termed "World's Fair" cases in the building.

The removal of the textile collections, formerly occupying Halls 30 and 31, was completed during the year, the halls repainted and collections illustrating the Ethnology of South America installed therein. Halls 14 and 15, which contained the latter collections, were utilized to exhibit newly acquired material. The complete reorganization of Ayer Hall and the removal of all collections which did not pertain to the Plains Indians was a noteworthy feature of the year. The entire hall was painted and forty new cases provided in which were installed collections illustrating the tribes of the Siouan, Algonquin, and allied stocks. The series of Catlin paintings were reframed and placed on the north wall, thus further augmenting the attractiveness of the hall. The Ayer collection from the northwest coast was installed in six new cases in Hall 11, thus completing the installation of the halls devoted to this region. Hall O, formerly the office of the curator of the



DINOSAUR QUARRY NO. 15—NEAR FRUITA, COLORADO—EXPEDITION OF 1901—FIELD COLUMBIAN MUSEUM.

department, having been placed in order, was occupied for the first time this year by a collection illustrating the games of the North American Indians. In Hall 8 were placed seventeen large upright cases and in these the Wattron collection and portions of the collections secured by Assistant Curator Owen were installed. The collection of relics from the Swiss Lake dwellings, presented by the Vice-President, as noted in the last Report, was placed in new cases in an alcove in the North Court, where it forms a valuable addition to the Archæological collections of Europe. The collection secured by Assistant Curator Simms from the tribes of the Paiman and Yuman stocks was identified and labeled and now occupies Hall 15. An ethnological group of six figures, illustrating the more important domestic activities of the Puget Sound Indians, was completed and placed on exhibition.

The Curator of the Department of Zoology reports that several of the divisions are exceedingly cramped for room and that further installation of specimens in these divisions will be difficult. The overhauling and re-installation of the Conchological collections has been completed so that they now occupy thirty-two table cases, all identified and labeled. A striking group of the northern Wart Hog was placed on exhibition in the West Court and has already attracted much attention. In other divisions of Zoology, more attention has been paid to the study collections, which are all in a highly meritorious and accessible condition.

In order that a systematic re-installation of the large economic collections might be pushed and augmented, and this valuable material, which has only had a geographic installation since the opening of the Museum, might be brought into a more fitting condition, two new office rooms for the Curator of Botany and his assistant have been built upon the main gallery and types of three styles of cases, designed for economic installation, viz.: (1) wall cases, (2) floor cases and (3) table cases. Two floor cases and twelve wall cases have been built, and fourteen more are in process of construction. The time of the Curator since the first of May has been employed in filling gaps in various groups of economic material, writing descriptive labels and installing in monographic completeness such material as it has been possible to acquire. The cases finished to date are: The utilization of cocoanut fiber (2 cases); licorice and vegetable waxes ($\frac{1}{2}$ case); the destructive distillation of wood ($\frac{1}{2}$ case); the utilization of pine needle fiber (1 case); the utilization of cork (2 cases); Paraguay and Japan tea (1 case); Indian corn (1 case). Several others are brought near to completion. Several entirely unique designs in graphic

labels and specimen mounts have been devised and will be incorporated in the installation during the coming year.

In Hall 65, devoted to structural geology, an exhibit of cave formations and cave life has been prepared. Stalactites, stalagmites and other cave formations from several well known caves of the United States have been mounted in their natural position and a realistic setting corresponding in form and details to a typical limestone cave, given. Accessories illustrating water, and animals which live in caves, such as bats, blind fish, crayfish and crickets are also used. The whole illustrates the nature and manner of growth of limestone cave formations and the living forms which characterize such caves. Owing to the darkness of the interior of the case from its being enclosed on all but one side, electric lights are used to illuminate the interior. The other cases in the same hall have been lined and repainted, the specimens thoroughly cleaned and re-installed. A case containing a collection of claystones has been added. About half the cases containing the systematic mineral collection have also been lined and painted, the specimens cleaned, carefully re-identified and re-installed. The Chalmers crystal collection received from exhibition at the Paris Exposition has been installed in Hall 64. The work of transferring the invertebrate fossils to the mounts of manila board described in a previous report has been continued, in preparation for removal of the collection to new cases now in process of construction. A foreleg, complete with the exception of a few foot bones and including the shoulder girdle, of the large dinosaur *Morosaurus*, has been mounted and installed in Hall 36. A femur and humerus of *Camarasaurus*, which are the largest dinosaur bones ever discovered, together with several vertebræ and a rib of the same animal have also been placed in this hall. These specimens are of especially high scientific value and interest. The collections in Hall 79, devoted to ores of the base metals, have been completely re-installed. The old cases were removed and new cases, purchased in part from the United States Commission to the Paris Exposition, substituted. These cases are constructed of mahogany and plate glass and represent a permanent style of installation. The types of cases employed are three, a wall case, a flat floor case and an upright floor case. The wall cases are twelve feet long and seven feet high. The upper portion of the case, designed for the exhibition of smaller specimens, is ten inches deep and is fitted with five slanting shelves. Specimens installed on these shelves are mounted on mahogany blocks beveled to make a level support, to the front of which the label is attached. It is found

that the use of a sloping shelf and a beveled block gives the specimens an improved perspective, which could not be gained by a level shelf. The lower portion of the case has a projecting slant front supported by turned posts and is designed for the exhibition of larger specimens. The flat and upright cases are designed for the exhibition of the heaviest and largest ore specimens. The flat cases are six feet long, four feet wide and four feet high; the upright cases four feet square and six feet six inches high. They rest on heavy turned legs, which raise the base of the case two feet from the floor. The cases are lined with Pompeian red burlap. An upright hexagonal case with central pyramid is used for the exhibition of the most showy specimens of copper ore. The collections illustrating the metallurgy of iron, formerly occupying Hall 76, have been entirely removed, as they were somewhat foreign to the present scope of the Museum and the room was needed for other purposes. Collections and cases were presented to the Armour Institute of this city. In their place will be put the collections illustrating geographic geology, which include relief maps, globes and other geographic material, and the space in Halls 60 and 61, formerly devoted to their exhibition, will be used to accommodate the expanding paleontological collections. Considerable additions have been made to the collections of ores of the precious metals, largely through material received from the Paris Exposition. The exhibition of this material has been provided for by the addition of one new wall case and by the installation of four cases of ores in the west dome. The interiors of the upright floor cases in Hall 72 have been repainted, the specimens cleaned, re-identified and mounted on beveled imitation mahogany blocks.

PHOTOGRAPHY, ILLUSTRATION AND PRINTING.—Each of these divisions reports unusual progress, both as regards equipment and work accomplished. The addition of more floor space to the printing office has made it possible to increase the staff, which was recently done. The employment of an artist in the division of illustration must be noted with satisfaction, being an acquisition which had been much needed. The following tables show the work performed by these important divisions:

Photography and Illustration.	Negatives.	Prints.	Lantern Slides.	Developments.
Department A,	173	1,536	75	1,080
Department B,	18	6	102	142
Department C,	32	147	...	...
Department Z,	401	284	103	145
Publications, . . . .	...	...	...	...

Photography and Illustration.	Negatives.	Prints.	Lantern Slides.	Developments.
Lectures,	55	...	55	...
For distribution, . . . . .	...	112	...	...
Expeditions,	2,572	...	...	...
Totals,	3,251	2,085	335	1,367

	Labels.	Other Impressions.
Printing Office.		
Anthropology,	713	3,975
Botany,	273	13,100
Geology,	3,642	...
Transportation,	15	...
Zoology,	4,523	756
Director's Office, . . . . .	...	24,589
Library, . . . . .	...	3,312

TAXIDERMY.—Work in this division has been unusually active, and results of the very highest character have been attained. New methods in mounting specimens have been adopted and in consequence a perfection of work never before attained has been secured. Five large groups are nearing completion, one of zebra and four of the Virginia deer in spring, summer, autumn and winter, this last distinguished by a wealth of accessories and detail never before attempted in this class of work.

BEQUEST.—The sum of \$1,000.00 was bequeathed to the Museum by the late Huntington W. Jackson. This brings to mind the fact that the President during the year supported the movement to amend the law regarding the Inheritance Tax, and the Museum is to be congratulated on the success with which the concerted efforts of the various institutions in the country has been crowned, the objectionable law having been repealed by the United States and the State of Illinois.

ATTENDANCE.—A falling off in the total attendance for the year has to be reported. The figures show a difference of 18,491 in favor of the year ending September 30, 1900, over the year ending September 30, 1901. More than half of this decrease occurs in the month of September, 1901, when the attendance was 9,782 less than in the same month of the previous year. The only explanation of this large difference is in the fact that the weather was inclement on three out of the nine free days of the month. The marked decrease in the paid attendance is explained by the fact that during the previous year the visit of the G. A. R. to Chicago brought a great many strangers to the city, who visited the Museum in large numbers, in fact, the paid attendance during the week of the encampment was 4,500 more than the

average. It is encouraging in view of this diminution to note that the attendance of scholars and teachers is the largest in the history of the Museum, being over 1,500 in excess of any previous year. During the year 222 classes comprising 6,225 pupils have studied the collections. Of these classes, 11 were from outside the city and the remaining 211 were from the city. Appended is a list of classes, thirty or more, that visited the Museum during the year just closed. A comparison between the daily attendance for the year ending September 30, 1900 and the year ending September 30, 1901 is also given.

SCHOOLS AND LOCATION.	Teachers.	Pupils.
Sherwood—Princeton ave. and Fifty-seventh st.,	1	30
Normal—444 West Sixty-ninth st.,	9	42
Chas. W. Earle—Sixty-first st. and Armitage ave.,	1	30
Chas. W. Earle—Sixty-first st. and Armitage ave.,	1	35
Normal—444 West Sixty-ninth st.,	4	47
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	35
Normal—444 West Sixty-ninth st.,	1	46
Chas. W. Earle—Sixty-first st. and Armitage ave.,	1	32
John M. Smyth—West Thirteenth st. and Blue Island ave.,	2	72
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	3	46
St. Mary's High—1447 South Forty-second ave.,	8	99
Normal—444 West Sixty-ninth st.,	4	36
Normal—444 West Sixty-ninth st.,	1	35
John Marshall—West Adams st. and Kedzie ave.,	2	36
John Marshall—West Adams st. and Kedzie ave.,	2	34
Chase—Cornelia ct., corner Point st.,	1	47
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	2	50
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	74
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	85
Komensky—Throop st., corner W. Twentieth st.,	1	32
Normal—444 West Sixty-ninth st.,	5	43
Normal—444 West Sixty-ninth st.,	3	45
Forestville—St. Lawrence ave., corner Forty-fifth st.,	1	41
Normal—444 West Sixty-ninth st.,	1	36
Audubon—Cornelia ave. and North Hoyne ave.,	1	47
Normal—444 West Sixty-ninth st.,	4	72
Sherwood—Princeton ave. and Fifty-seventh st.,	1	36
Normal—444 West Sixty-ninth st.,	2	33
Forestville—St. Lawrence ave., corner Forty-fifth st.,	1	39
Marshall—West Adams st. and Kedzie ave.,	1	32
Carter—Sixty-first st. and Wabash ave.,	1	31
Normal—444 West Sixty-ninth st.,	1	40
Normal—444 West Sixty-ninth st.,	1	42
McCosh—Champlain ave., corner Sixty-sixth st.,	1	39
Walter Scott—Sixty-fourth st. and Washington ave.,	1	30
Calumet—2643 Calumet ave., . . . . .	..	34

SCHOOLS AND LOCATION.	Teachers.	Pupils.
Prescott—Wrightwood ave. and North Ashland ave.,	1	34
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	38
Eighty-third Street—Eighty-third st., corner Houston ave.,	1	30
Forestville—St. Lawrence ave., corner Forty-fifth st.,	1	32
Englewood High—Stewart ave., corner Sixty-second st.,	2	142
Carter—Sixty-first st. and Wabash ave.,	2	31
Hyde Park High—Fifty seventh st. and Kimbark ave.,	2	40
Parkside—Seventieth st. and Seipp ave.,	1	50
Champlain—Princeton ave. and Sixty-first st.,	1	42
Myra Bradwell—Seventy-seventh st. and Sherman ave.,	1	39
Myra Bradwell—Seventy-seventh st. and Sherman ave.,	1	32
D. S. Wentworth—Seventieth st. and Sangamon st.,	2	40
Headley—Lewis st., corner Garfield ave.,	2	66
South Division High—Twenty-sixth st. and Wabash ave.,	2	40
South Division High—Twenty-sixth st. and Wabash ave.,	2	41
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	2	117
George W. Curtis—State st. and West 114th pl.,	2	33
East Chicago—East Chicago, Ind.,	2	39
Newberry—Willow and Orchard sts.,	1	31
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	2	125
George W. Curtis—State st. and West 114th pl.,	2	57
George W. Curtis—State st. and West 114th pl.,	2	31
Jones—Plymouth ct. and Harrison st.,	3	34
Jones—Plymouth ct. and Harrison st.,	1	30
George W. Curtis—State st. and West 114th pl.,	1	48
Harrison—Twenty-third pl. and Wentworth ave.,	1	35
East Chicago—East Chicago, Ind.,	2	65
George W. Curtis—State st. and West 114th pl.,	1	46
Mark Sheridan—Twenty-seventh and Wallace sts.,	2	37
Jones—Plymouth ct. and Harrison st.,	2	38
George W. Curtis—State st. and West 114th pl.,	2	50
Jones—Plymouth ct. and Harrison st.,	3	57
George W. Curtis—State st. and West 114th pl.,	5	134
Jewish Training School—199 West Twelfth pl.,	3	50
Mark Sheridan—Twenty-seventh and Wallace sts.,	4	72
George W. Curtis—State st. and West 114th pl.,	1	38
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	60
Englewood High—Stewart ave., corner Sixty-second st.,	1	70
Eighty-third Street—Eighty-third st., corner Houston ave.,	2	74
George W. Curtis—State st. and West 114th pl.,	1	45
Lincoln—Chicago Heights,	5	46
Burr—Ashland ave. and Wabansia ave.,	1	35
Eighty-third Street—Eighty-third st. and Houston ave.,	3	77
Nathaniel Greene—Thirty-sixth st. and South Paulina st.,	2	40
Fallon—Forty-second and Wallace sts.,	1	31
Eighty-third Street—Eighty-third st. and Houston ave.,	2	65
D. S. Wentworth—Seventieth and Sangamon sts.,	2	76
Eighty-third Street—Eighty-third st. and Houston ave.,	2	54
Mark Sheridan—Twenty-seventh and Wallace sts.,	4	46

SCHOOLS AND LOCATION.	Teachers.	Pupils.
Kershaw—Union ave. and West Sixty-fourth st.,	2	30
Komensky—Throop st., corner West Twentieth st.,	5	102
George W. Curtis—State st. and West 114th pl.,	2	63
Talcott—West Ohio st., corner Green st.,	1	41
George Dewey—Union ave. and Fifty-fourth st.,	2	63
Harvard—Harvard ave., near Seventy-fourth st.,	2	49
Kosciusko—West Division st., corner Cleaver st.,	2	30
Horace Greeley—Sheffield ave., corner Grace st.,	3	50
Chicago University—Chicago,	1	35
Chicago University—Chicago,	1	45
Washburne—West Fourteenth and Union sts.,	3	48
Lewis-Champlin—Princeton ave. and Sixty-first st.,	1	32
Yale—Yale ave. and Seventieth st.,	1	41
Normal—444 West Sixty-ninth st.,	1	36
Lewis-Champlin—Princeton ave. and Sixty-first st.,	1	37

COMPARATIVE ATTENDANCE

FOR THE YEARS ENDING SEPTEMBER 30, 1900, AND SEPTEMBER 30, 1901.

	Increase.	Decrease.
Total attendance,		18,491
Paid attendance,		7,603
Attendance of School Children on pay days,	752	...
Attendance of Students,	845	...
Attendance of Teachers,	172	...
Attendance of Members,		172
Average daily attendance, 1900,		728
Average daily attendance, 1901,		682

Herewith are submitted financial statements, analysis of attendance, list of accessions, names of members, etc., etc.

FREDERICK J. V. SKIFF,
DIRECTOR.

FINANCIAL STATEMENT.

RECEIPTS AND DISBURSEMENTS

During the Year ending September 30, 1901.

RECEIPTS.

Cash in Treasurer's hands, Sept. 30, 1900,	\$	3,450.77
Petty Cash on hand, Sept. 30, 1901,		739.95
Dues of Members—		
Corporate,	\$	200.00
Annual,	2,930.00	3,130.00
Admissions and Check Rooms,		6,113.25
South Park Commissioners,		15,000.00
Chicago City Railway Company,		2,250.00
Sale of Guides,		375.50
Sundry Receipts,		591.27
Interest on Investments,		2,961.61
Stanley McCormick-Watton Collection,		5,888.00
H. N. Higinbotham-Schotel Collection,		250.00
Department of Mines and Mining, World's Columbian Exposition, per F. J. V. Skiff,		187.17
Sale of Securities,		125,000.00
		\$165,937.52

DISBURSEMENTS.

Salaries,	\$	50,245.46
Guard Service,		11,983.53
Janitor Service,		8,142.05
Fire Protection,		2,871.32
Heat and Light—		
Wages,	3,161.61	
Fuel and Supplies,	4,824.50	
Additions to Plant,	194.36	8,180.47
Repairs and Alterations—		
Wages of Carpenters, Painters, Roofers,	12,365.87	
Material used—Paints, Oils, Hardware, Glass, Lumber and Plaster,	3,978.49	16,344.36
<i>Carried forward,</i>		\$ 97,767.19

	<i>Brought forward</i> ,		\$ 97,767.19
Furniture and Fixtures—			
	Cases and Bases,	\$21,505.41	
	Sundries,	548.54	22,053.95
The Library—			
	Books and Periodicals,	658.06	
	Binding,	65.55	
	Sundries,	68.34	791.95
Sections of Printing and Photography,			1,025.07
Collections and Articles Purchased,			11,181.73
Installation Expenses,			3,554.97
General Expense Account—			
	Freight, Expressage and Teaming,	1,969.25	
	Stationery, Postage, Telegrams and Telephone,	1,116.85	
	Publications,	4,825.26	
	Expeditions,	11,925.42	
	Sundries,	4,333.74	24,170.52
			<u>\$160,545.38</u>
In Treasurer's hands, Sept. 30, 1901,		4,652.19	
Petty Cash on hand, Sept. 30, 1901,		739.95	5,392.14
			<u>\$165,937.52</u>

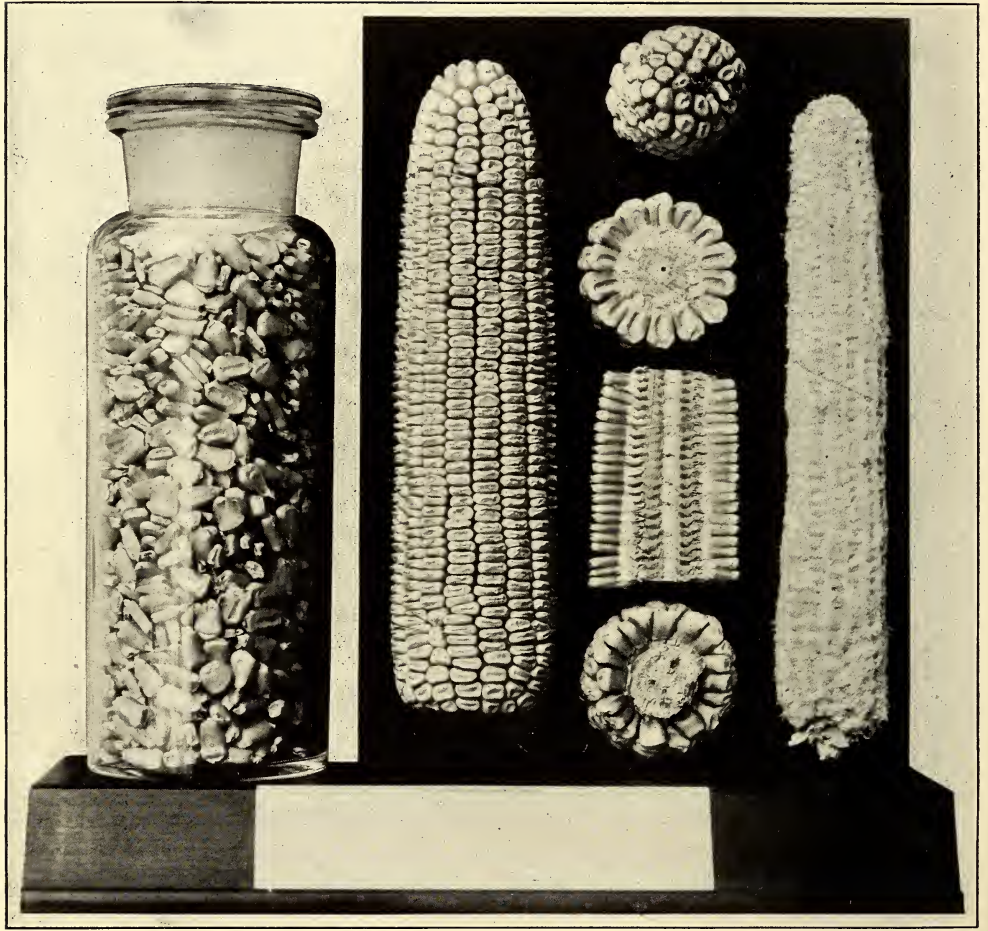
ATTENDANCE AND RECEIPTS FOR THE YEAR ENDING SEPT. 30, 1901.

ATTENDANCE.		
Paid attendance—		
Adults,	19,341	
Children,	1,166	
		20,507
Free admissions on pay days—		
School Children,	7,857	
Students,	2,192	
Teachers,	591	
Members—Corporate,	19	
Annual,	268	
Life,	11	
Officers' family,	49	
*Special,	349	
		11,336
Admissions on free days—		
Saturdays,	53,578	
Sundays,	162,987	
		216,565
Total attendance,		248,408
Highest attendance on any day (September 1, 1901),		7,753
Highest paid attendance on any day (September 2, 1901),		273
Average daily admissions (364 days),		682
Average paid admissions (260 days),		78

RECEIPTS.

Guides sold—1,502 at 25 cents each,	\$ 375.50
Articles checked—23,228 at 5 cents each,	1,161.40
Admissions,	4,951.85
	\$6,488.75

* Baptist Young People's Union of America.



METHOD OF MOUNTING VARIETIES OF CORN, DEPARTMENT OF BOTANY—FIELD COLUMBIAN MUSEUM.

PL. V. SPECIMEN BLOCK.

The specimen block and label holder used in the Department of Botany, adapted, by the addition of a panel back, to the display of corn varieties. The bottle of shelled corn is 9.5 inches high, holds one quart, and is the type of all the bottles in the department.

ACCESSIONS.

FROM OCTOBER 1, 1900, TO SEPTEMBER 30, 1901.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ANDERSON, GEORGE, Marysville, Ontario.
Game of soldiers, Mohawk Indians (exchange).
- AYER, EDWARD E., 1 Banks street, Chicago.
Unfinished stone axe—Lake Geneva, Wis.
Grooved stone axes—Southern Wisconsin, near Harvard.
- BENHAM, J. W., Phoenix, Ariz.
Stone shinny ball, Pima Indians—Arizona.
- BIDDLE, W. C. B., Espanolo, N. M.
Set cups and ball game—Santa Clara, N. M. (exchange).
Set stave game—Santa Clara, N. M. (exchange).
- BUFORT, T. J., Siletz, Ore.
Games of Kalapuya Indians—Siletz Reservation, Oregon (exchange).
- DORSEY, GEO. A., Field Columbian Museum.
Navajo stave game—Navajo Reservation.
- EWING, H. P., Hackberry, Ariz.
Sets stave games, Walapai Indians (exchange).
Walapai ring and javelin game (exchange).
- FIELD COLUMBIAN MUSEUM.
Collected by Geo. A. Dorsey:
Ethnological specimens from the Osages, Pawnees, Wichitas — Oklahoma Territory.
Accessories of the Sun Dance of July, 1901, by the Cheyennes of Oklahoma.
- Collected by Dr. J. W. Hudson:
Ethnological specimens from the Mariposan and Moquelumnian Stocks, etc.—California.
Skulls and skeletons from graves of tribes of Mariposan Stock—California.
- Collected by Dr. Merton L. Miller:
Ethnological specimens from the tribes of the Shahaptian Stock—Columbia River Basin.
Skulls and skeletons from tribes of the Shahaptian Stock—Columbia River Basin.
- Collected by Dr. C. F. Newcombe:
Skulls and skeletons of Haida Indians—Queen Charlotte Island, B. C.
Haida totem poles and general ethnological objects—British Columbia.
- Collected by Chas. L. Owen:
Ethnological specimens from the Apache and Navajo Indians—Arizona.
- Collected by S. C. Simms:
Ethnological specimens from the Yuma, Walapai, Mojave, Pima-Papago, Yuma-Apache—New Mexico, Arizona and California.
- Collected by Dr. W. A. Phillips:
Quarry and shop site refuse, rejects, etc.—Near Cobden, Union County, Ill.

- Quarry and shop site refuse, rejects, etc.—Cobden, Ill., and Hot Springs, Ark.
- Skulls and skeletons from prehistoric mounds—Union County, Ill.
- Purchases:
- Wampum belts, coppers, objects of stone, etc.—Various localities.
 - Buckskin dresses, hair ornaments—Klamath Reservation.
 - Papuan skulls.
 - Chinese skull.
 - Sioux skull.
 - Buffalo charm stone—Blood Reservation, Alberta.
 - Otter skin medicine bag—Winnebago Indians.
 - Ethnological specimens from Alaska.
 - Zuni shields of the Priesthood of the Bow.
 - Buffalo head dresses.
 - Ceremonial wheel.
 - Strings of Wampum necklace of bones of eagle wing.
 - Rattle, belt and hair ornaments of Winnebago Indians.
 - Winnebago wood bowl and ladle—Black River Falls, Wis.
 - Winnebago ethnological specimens—Wisconsin.
 - Winnebago double-headed drum, with supports.
 - Set of Lacondon bows and arrows—Mexico.
- Purchased by Edward E. Ayer for the Museum:
- Small glass bottle relief animal figures, bronze buckle, fibulars, finger rings, piece of amber from fibula, piece of dark cement-like substance—Pompeii.
- FIELD, MARSHALL & Co., Chicago.
- Pomo Indian baskets—California (exchange).
- FIELD, STANLEY, Chicago.
- Sac and Fox pipe—Tama, Iowa.
- FREE MUSEUM OF SCIENCE AND ART, Philadelphia, Pa.
- Sets games (exchange.)
 - Skeletons—Vancouver Island (exchange).
- GORE, J. H., Columbia University, Washington, D. C.
- Swedish costumes consisting of six pieces.
- HAWAIIAN COMMISSION TO THE PARIS EXPOSITION, 1900.
- Mats, adzes, clubs, etc.—Hawaiian Islands.
- HUCKEL, J. F., Kansas City, Mo.
- Flat Head skulls—Oregon.
 - Cliff dweller skull—Utah.
- IRWIN, A., Kamloops, B. C.
- Indian games—Kamloops, B. C. (exchange).
- KEAM, T. V., Keams Canon, Arizona.
- Navajo games—Keams Canon, Arizona (exchange).
- KERBER, DR. H. C., Chicago.
- Stone axes and celts, arrow and spear heads, and labret-like objects of soap stone—Tennessee.
- LAMPSON, MISS L. M., Nambe, N. M.
- Sets gambling games—Nambe Pueblo, N. M.
- LUKENS, DR. CHAS. E., Laguna, N. M.
- Sets cups and ball games—Laguna Pueblo, N. M. (exchange).
 - Sets stave games—Laguna Pueblo, N. M. (exchange).
- MCCORMICK, STANLEY, Chicago.
- Ancient pottery, bone and stone objects from ancient Hopi and Zuni ruins—Arizona and New Mexico.
 - Skulls and skeletons from prehistoric ruins of Walpi—Arizona.
- McKOID, JOHN J., Fort Mojave, Ariz.
- Sets Indian games—Mojave Indians (exchange).
- McNICHOLS, C. S., Parker, Ariz.
- Sets stave games, Mojave Indians—Colorado River Agency (exchange).

- MINOR, EDWIN, San Jacinto, Cal.
 Stave game—San Jacinto, Cal. (exchange).
 Hand game—San Jacinto, Cal. (exchange).
- MITCHELL, J. A.
 Cree games—Muskowpetung Agency (exchange).
- NEWCORBE, DR. C. F., Victoria, B. C.
 Accessories of Kwakiutl group, games, etc.—North end Vancouver Island (exchange).
- PATTERSON, E. L., White River, Ariz.
 Javelin and ring game, White Mountain Apache (exchange).
 Sets stave games, White Mountain Apache (exchange).
- PORTER, DR. R. S., 304 Warren avenue, Chicago.
 Ethnological objects from the Moros of Mindanao Island, P. I. (loan).
- RODDY, THOS. R., Chicago.
 Winnebago bowl and dice game—Black River Falls, Wis. (exchange).
 Winnebago cups and pin game—Black River Falls, Wis. (exchange).
- SAYRE, ANNIE M., Jemes, N. M.
 Set four-paper tubes for guessing game—Zia Pueblo.
- SIBBALD, W., Union Lake, Saskatchewan.
 Set cups and pin game, Cree (exchange).
- SMITH, THOS. B., Truro, Nova Scotia.
 Dice game (1 bowl, 4 dice, 55 counters), Micmac—Truro, B. C. (exchange).
- SPINK, R. C., Klamath Agency, Ore.
 Sets of games, Klamath and Modoc (exchange).
- ARCHÆOLOGICAL MUSEUM, Toronto, Canada.
 Huron crania (exchange).
- TURNER, PHILLIP, Coxby, Saskatchewan.
 Cree Indian games—Saskatchewan (exchange).
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
 Buffalo shields, Plains Indians (exchange).
- WATKINS, MARY C. B., Mesa Grande, Cal.
 Sets of games (exchange).

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AMERICAN CEREAL CO., Chicago.
 13 specimens corn food products.
- ARMSTRONG, BROS. & CO., Pittsburgh, Pa.
 16 specimens showing utilization of cork.
- BALL, CARLTON R., Washington, D. C.
 247 herbarium specimens—Louisiana (exchange).
- BEAN, T. H., Washington, D. C.
 2 plaques (4 specimens) yucca products.
 1 box (50 specimens) small specimens Japanese woods.
 1 box (62 specimens) dry fruits.
- BEBB, ROBERT, Washington Heights, Chicago.
 62 herbarium specimens—Clearwater, Fla.
 13 herbarium specimens—Clearwater, Fla.
 84 herbarium specimens—Illinois and Indiana.
- BIDWELL, J. E., Chicago.
 7 samples of standardized corn.
- BLODGETT, F. H., Chicago.
 2 specimens of pop corn.
- BOTANIC GARDENS, Grenada, British West Indies.
 Seeds of *Sapindus inæqualis*—Grenada.
 Gum from the trunk of *Dachyroides hexandra*—Grenada.

- BROWN, J. C., New York Produce Exchange, N. Y.
3 samples New York Produce Exchange standards of corn, 1901.
- CABOT, SAMUEL, 70 Kilby street, Boston, Mass.
1 bale of raw material "Zostera marina."
1 sheet of asbestos "Quilt."
1 sheet of single-ply "Quilt."
1 sheet of double-ply "Quilt."
- CHASE, MRS. AGNES, 5515 Monroe avenue, Chicago.
4 herbarium specimens—Illinois.
1 specimen fruits of *Cratægus*—Illinois.
11 various fresh fruits—Illinois.
3 fruits of *Cratægus*—Illinois.
7 fruits of *Cratægus*—Illinois.
8 packages of fruits of *Cratægus*—Illinois.
169 herbarium specimens—Indiana, Illinois and Oregon (exchange).
- CHASE, V. H., Chicago.
354 herbarium specimens—Illinois (exchange).
- CUBAN COMMISSION TO THE PARIS EXPOSITION, 1900.
42 wood specimens—Cuba.
- DEAM, CHARLES C., Bluffton, Ind.
2 type specimens plants—Mexico.
126 herbarium specimens—Mexico (exchange).
- DERR, H. B., Chicago.
35 specimens ferns—Kingston, Jamaica.
- DISTRICT OF COLUMBIA PAPER MAN'G CO., Washington, D. C.
5 specimens showing the manufacture of blotting paper from cotton cloth.
- DORSEY, GEO. A., Field Columbian Museum.
6 ears of corn from Ancon, Peru.
- DUNHAM MAN'G CO., 373 Pearl street, New York City.
1 specimen of shredded cocanut—Cuba.
- EMRICK, DR. G. M., 5700 Kimbark avenue, Chicago.
229 herbarium specimens—Michoacan, Mexico.
14 specimens dry fruits—Michoacan, Mexico.
7 specimens formaline fruits—Michoacan, Mexico.
- FARWELL, O. A., Detroit, Mich.
4 specimens *Euphorbia*—Detroit, Mich.
- FIELD COLUMBIAN MUSEUM.
Collected by Geo. A. Dorsey:
1 bottle of cruciferous seeds—Pyramid Lake, Nev.
1 wooden bowl used by Osage Indians—Oklahoma.
1 wooden spoon used by Osage Indians—Oklahoma.
1 specimen dried vegetable food—Oklahoma.
Collected by O. C. Farrington:
1 herbarium specimen—Marengo, Ind.
Collected by O. E. Lansing, Jr.:
54 herbarium specimens—Illinois and Indiana.
Collected by C. F. Millspaugh:
417 herbarium specimens—Jamaica.
4 specimens fruits and seeds—Jamaica.
1 pkg. seeds of *Gleditschia triacanthos*—Cambridge, Mass.
Collated by C. F. Millspaugh:
4 plates of species (cactus).
9 herbarium specimens—Jamaica.
3 sheets drawings and tracings.
19 parts of herbarium specimens.
- Purchases:
86 herbarium specimens—Lower California.
407 herbarium specimens—Island St. Croix, Danish West Indies.
194 herbarium specimens—Mexico and Texas.

- 630 herbarium specimens—Alabama, Mississippi, Florida and Louisiana.
 537 herbarium specimens—Florida.
 11 herbarium specimens—California.
 136 herbarium specimens—Oregon.
 369 herbarium specimens—Mexico.
 1 specimen oil of tobacco.
 1 specimen nicotine.
 1 specimen poppy seed oil.
 1 specimen extract cannabis.
 1 specimen morphia.
 1 specimen apomorphia.
 1 specimen crude opium.
 1 specimen hemp seed.
- GAUMER, DR. GEORGE F., Izamal, Yucatan.
 2 herbarium specimens—Izamal.
- GRAY HERBARIUM, Cambridge, Mass.
 128 herbarium specimens—Various localities (exchange).
- HAWAIIAN COMMISSION TO THE PARIS EXPOSITION, 1900.
 2 grass skirts—Hawaii.
 1 cloth—Hawaii.
- HELLER & MERZ CO., 22 Cliff street, New York City.
 1 book of paper color samples.
- HOPE BOTANICAL GARDENS, Jamaica, West Indies.
 104 herbarium specimens—Jamaica (exchange).
- HUMPHREY, H. M., New York City.
 9 samples of standard coffee—New York Coffee Exchange, 1901.
- HUTCHINSON, FLORENCE CÉLESTE, 3142 Indiana avenue, Chicago.
 187 herbarium specimens—Indiana, Illinois, New York and Wisconsin.
- HUYLER & CO., Eighteenth street and Irving place, New York City.
 12 specimens cacao pod, beans and products—Caracas, Venezuela.
- INDIA REFINING CO., Philadelphia, Pa.
 6 economic specimens cocoanut oil products.
- IOWA STATE UNIVERSITY, Iowa City, Iowa.
 560 herbarium specimens—Various localities (exchange).
 159 herbarium specimens (mosses in packets)—Various localities (exchange).
 4 specimens mosses, 1 specimen glumaceous corn—Various localities (exchange).
- KÖENIGL HOF. MUSEUM, Berlin, Germany.
 88 herbarium specimens—Various localities (exchange).
- THE MARSDEN CO., Philadelphia, Pa.
 5 specimens corn pith cellulose objects.
- MCDONALD, FRANK E., Peoria, Ill.
 14 herbarium specimens—Peoria, Ill.
- MILLSPAUGH, C. F., Field Columbian Museum.
 1 specimen fruits of *Ampelopsis quinquefolia*.
 3 cigars wrapped in lace bark—Holland.
 2 type specimens mosses—West Virginia.
 7 type specimens of flowering plants—West Virginia.
 1 pound seeds of *Sorghum Halepense*.
 1 specimen *Cocos mucifera* L. milk.
 1 specimen *Cocos mucifera* L. copra.
 1 cork cane—Portugal.
 1 quart sweet corn, Vaughan's "Metropolitan."
 1 aloe strop—Jamaica.
 1 box dried bananas—Jamaica.
 1 quart peach pits—Michigan.
 2 packages of cigarettes—Porto Rico.
 1 package of grain-o.
 1 package postum cereal.
 1 package caramel cereal.

- MORGAN, GEORGE H., Merchants' Exchange, St. Louis, Mo.
6 samples Missouri standards of corn.
- MORRIS, E. L., Washington, D. C.
2 herbarium specimens—Maryland.
- NATAL BOTANICAL GARDENS, Berea, Durban, Natal.
113 herbarium specimens—Various localities (exchange).
101 herbarium specimens—South Africa (exchange).
- NEW JERSEY RUBBER CO., Lambertville, N. J.
9 specimens of rubber shoddy.
- NONPAREIL CORK MAN'F'G CO., Bridgeport, Conn.
20 specimens of compressed cork products.
- OHIO AGRICULTURAL EXPERIMENT STATION, Wooster, Ohio.
49 specimens willows—Ohio.
- ORCUTT, C. R., San Diego, Cal.
33 herbarium specimens—Arizona, Mexico, California and Texas.
- PARKE, DAVIS & CO., Detroit, Mich.
66 packages of pressed herbs—Various localities.
- PHILADELPHIA MUSEUM, Philadelphia, Pa.
17 specimens of Maté (*Ilex Paraguayensis*)—Brazil (exchange).
- PRODGER, F. H., Duluth, Minn.
3 samples Minnesota standard corn.
- THE PRATT CEREAL MILL CO., Decatur, Ill.
13 specimens corn flour.
- RICE, WALLACE, 6324 Ingleside avenue, Chicago.
1 specimen *Physalis Virginiana* Mill (ground cherry).
- RICKSECKER, A. E., Wilton Junction, Iowa.
7 herbarium specimens—St. Croix, Danish West Indies.
2 herbarium specimens—St. Croix, Danish West Indies.
- RIPLEY, WILLIAM, 36 La Salle street, Chicago.
1 cedar shingle from ancient buried log—State of Washington.
- THE SANITAS NUT FOOD CO., Battle Creek, Mich.
1 jar meltose, 1 jar malted nuts, 1 can nuttolene, 1 can protose, 1 can nut butter.
- SCRIBNER, F. LAMSON, Washington, D. C.
4 packages of seeds—Various localities.
- SPENCER, MARY F., Munich, Bavaria, Germany.
505 herbarium specimens—Europe (exchange).
- SPRAGUE, WARNER & CO., Chicago.
6 samples coffees.
- STANDARD OIL CO., Oswego, N. Y.
1 economic specimen boxwood sawdust.
- STELLER, LOUIS, San Francisco, Cal.
5 samples standard corn—California.
- THE THOMPSON NORRIS CO., Brooklyn, N. Y.
9 specimens packing paper and "Cortexa."
- TRACY, S. M., Biloxi, Miss.
18 herbarium specimens—Florida.
- TRUDE, A. P., 4960 Drexel boulevard, Chicago.
1 economic specimen—Japan.
- UMBACH, L. M., Naperville, Ill.
539 herbarium specimens—Various localities (exchange).
485 herbarium specimens—Various localities (exchange).
152 herbarium specimens—Various localities (exchange).
- UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C.
3 packets seeds—Various localities.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
10 herbarium specimens—Various localities (exchange).

- VOTH, H. R., Oraibi, Ariz.
86 herbarium specimens—Arizona.
- WRIGHT, FRED B., Oberlin, Ohio.
52 herbarium specimens—Turkestan.
- YOUNG AND SMYLIE, Brooklyn, N. Y.
20 specimens licorice root and products.
1 specimen Greek mass licorice.
1 specimen Spanish mass licorice.

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ATCHISON, TOPEKA & SANTA FE R. R., Chicago.
9 specimens ores and minerals.
- BALLOU, O. B., 103 Lake street, Chicago.
1 specimen Limonite pseudo-morph after Marcasite—Winnebago Valley, Minn.
- CHALMERS, W. J., 188 Lincoln Park boulevard, Chicago.
Collection of United States crystals, containing 170 specimens.
- CHUMASERO, MRS. E. C., 5745 Rosalie court, Chicago.
20 specimens minerals and ores—Chiefly from Colorado and California.
- EWING, HENRY P., Truxton, Ariz.
2 specimens Carboniferous fossils—Supar Cañon Trail, Arizona.
- FARGO, DR. JOHN F., Los Angeles, Cal.
3 specimens fossil wood, partially opalized and partially converted into lignite—California.
1 specimen gold—Rebate Mine, Washington (exchange).
- FARRINGTON, O. C., Chicago.
42 specimens minerals (loan.)
8 specimens rocks (loan.)
- FIELD COLUMBIAN MUSEUM.
Collected by Geo. A. Dorsey:
6 specimens iron, copper, lead ores and chalcedony geodes—Whalen Cañon, Wyoming.
- Collected by O. C. Farrington:
4 specimens concretions, 2 specimens glaciated pebbles, 2 specimens Acervularia—Indiana Mineral Springs.
1 specimen quartzite from drift—Tyrone, N. Y.
- Collected by Louis V. Kenkel:
8 specimens, series of bricks illustrating erosion by wave action—Shore of Lake Michigan, Chicago.
- Collected by W. N. Logan, Beloit, Kan.:
160 specimens invertebrate fossils from the Cretaceous beds of Kansas.
- Collected by H. W. Nichols:
170 specimens zinc and lead ores and metallurgical products, 12 specimens minerals—Southern United States.
4 specimens Calcite crystals, 1 specimen Pyrite—Doe Run Shaft, Flat River, Mo.
- Collected by E. S. Riggs and H. W. Menke:
7 tons Dinosaur bones in matrix, all belonging to one individual; 4 specimens fossil insects—Grand River Valley, Colorado.
- Collected by A. W. Slocom:
1 specimen rain prints on indurated clay—Drainage Canal, Chicago.
- Purchases:
180 grams Rancho de la Pila meteorite.
3 specimens Celestite—Morrill, Kan.
1 specimen Beryl crystal—Mt. Mica, Me.
1 fossil skull and antlers of elk.
310 grams Björbole meteorite.
1 specimen Calcite.
1 specimen Silver.

- 42 specimens sand Calcite crystals—Devil Hill, S. D.
180 grams Nejed meteorite.
1 lot mastodon bones, lower jaw, vertebræ, ribs and limb bones.
- GAITHER, W. G., 143 Seventy-fifth Place, Chicago.
1 specimen copper ore—San Andreas Mountains, New Mexico.
- GUNASEKARA, U. D. S. & CO., Colombo, Ceylon.
4 specimens Graphite—Ceylon.
- HEIKES, VICTOR C., Boulder, Col.
96 specimens silver-lead ore, 3 specimens minerals—Western United States.
38 specimens minerals and fossils—Germany.
1 specimen mica—Yuma, Ariz.
- HEWETT, E. L., Las Vegas, N. M.
6 specimens Dolomite pseudomorph after Hanksite—Las Vegas, N. M.
- HUTTON, B. O., St. Louis, Mo.
1 specimen Gouverneur marble—New York (exchange).
1 specimen Isle la Motte marble—Vermont (exchange).
- IRVIN, MRS. CHAS. H., Boise, Idaho.
1 specimen gold-bearing river sand—Snake River, Idaho.
- KLING, C. L., 355 Milwaukee avenue, Chicago.
43 specimens of Garnet and Quartz and abrasive papers made from them.
- KNIGHT, PROF. W. C., Laramie, Wyo.
1 specimen Covellite—Medicine Bow Mountains, Wyo.
1 lot Epsomite crystals—Sweetwater Valley, Wyo.
1 specimen Allanite—Wyoming.
- KONIGL-NATURALIEN CABINET, Stuttgart, Germany.
1 specimen Quartz twin—Japan (exchange).
- LAWRENCE, PHILIP E., Evanston, Ill.
1 specimen Orpiment—Mercer, Utah (exchange).
- LUMBERMEN'S CREDIT ASSOCIATION, 911 Tacoma Building, Chicago.
1 specimen asbestos—Eden Mills, Ver.
- MANLEY, JOHN A., New Brunswick, N. J.
18 specimens minerals—New Jersey (exchange).
- MCCLEARY, W. B., Helvetia, Ariz.
5 specimens Molybdite—Arizona.
3 specimens Molybdenite—Arizona.
- MEARS, DR. A. J., 175 Dearborn street, Chicago.
1 specimen iridescent Chalcopyrite—Grand Encampment, Wyo.
- MELLIS, F. K., Baker City, Ore.
1 specimen Opal in matrix—Baker County, Ore.
- MOULTON, MRS. J. T., 1 Groveland Park, Chicago.
140 specimens minerals, ores and fossils.
- NEWARK TECHNICAL SCHOOL, Newark, N. J.
6 specimens minerals—New Jersey and New England (exchange).
- PARIS EXPOSITION, 1900.
979 specimens ores and minerals.
2 framed series of photographs of United States geologists (loan).
4 framed photographs of mining camps and scenes (loan).
- PATTERSON, W. R., 5730 Monroe avenue, Chicago.
5 large slabs glaciated limestone—Chicago Drainage Canal.
- PIEDRIT, W., Warsaw, Ill.
20 specimens geodes—Warsaw, Ill. (exchange).
- POOLE, J. O., Ellenville, N. Y.
5 specimens crystallized Quartz—New York.
2 specimens zinc and lead ores—New York.
- REEVES, J. A., Joplin, Mo.
1 specimen twin crystal of Calcite—Joplin, Mo.



GROUP OF NORTHERN WART-HOG FROM EAST AFRICA—FIELD COLUMBIAN MUSEUM.

- RIO GRANDE & WESTERN R. R., Bedford Building, Chicago.
5 specimens silver and copper ores—Utah and Washington.
- SABANEV, D. D., St. Petersburg, Russia.
2 specimens mercury ore—Nikitowka, Russia.
- SCOTT, GEORGE S., 737 Monadnock Building, Chicago.
1 specimen iridescent Sphalerite—Joplin, Mo. (exchange).
1 specimen Amalgam and Cinnabar—Austria (exchange).
1 specimen Limonite—Australia (exchange).
1 specimen Vanadinite—New Mexico (exchange).
1 specimen Epistilbite (exchange).
- SHEDD, JOHN G., 200 Adams Street, Chicago.
1 specimen Garnets in schist—Fort Wrangel, Alaska.
- SLOCOM, A. W., Chicago.
511 specimens Pleistocene fossil mollusk shells—Milwaukee County, Wis.
- SMITH, W. ORLANDO, 403 W. Sixty-fifth Street, Chicago.
1 Septarium—Henry, Ill.
- SOMMERS, J. B., Yerington, Nev.
1 specimen Cuprite coated with Malachite—Yerington, Nev.
- STANTON, JOHN, Kearsarge, Mich.
11 specimens Mohawkite—Kearsarge, Mich.
- STILLWELL, L. W., Deadwood, S. D.
8 specimens cave formations—Crystal Cave, S. D. (exchange).
- TRUDE, A. P., 4960 Drexel boulevard, Chicago.
20 specimens minerals and ores—Montana and Wyoming.
- ULLRICH, G. W., Debeque, Mesa County, Colo.
1 fossil garfish, *Clastes*—Colorado.
- WAITE, RICHARD, JR., Seattle, Wash.
1 specimen gold ore—Alaska.
- WEBER, DR. F. C., 126 Noble avenue, Chicago.
5 specimens Sapphires and Garnets—Georgia and Montana.
4 specimens Pandermite—California.
2 specimens products of borax.
1 specimen "electrite."
1 specimen artificial corundum.
3 specimens rocks accompanying Sapphire—Montana.
2 specimens ferrobor and ferro titan.
1 specimen Stibnite—Arkansas.
1 specimen Hydroboracite with Gypsum—Asia Minor.
- WOLFORD, J. A., Chicago.
1 specimen Garnets in schist—Alaska.

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Purchases :

- 2 California vultures.
1 egg of California condor.

KENKEL, L. V., Chicago.

Nest and two eggs of American robin—Trout Creek, Ontario, Canada.

OLSMITH, FRANK, Guthrie, Oklahoma.

1 partly Albino quail—Oklahoma.

DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AKELEY, CARL E., Field Columbian Museum.

1 mink—Park siding, Iron Co., Mich.

- ALBERTYN, J. D., Strand Veld, Cape Agulhas, South Africa.
2 Bontebok antelope—South Africa.
- BLAKE, L. L., Reed, Wis.
1 lizard—Wisconsin.
- BRAVERMAN, M., Visalia, Cal.
Skull and part of vertebra of rattlesnake.
- CHOPE, EDWARD B., Field Columbian Museum.
1 snake—Russell, Ala.
1 lizard—Russell, Ala.
- CHUMASERO, MRS. E. C., 5745 Rosalie Court, Chicago.
3 pieces coral.
1 horned toad.
1 tarantula.
1 centipede.
1 hair ball (from cow's stomach).
- CORY, CHAS. B., Boston, Mass.
1 wildcat—Huachuoa Plains, Ariz.
Skin and skeleton of manatee—Tampa, Fla.
Skin of young manatee—Tampa, Fla.
1 wildcat.
- CUBAN COMMISSION TO THE PARIS EXPOSITION, 1900.
21 specimens sponges.
3 specimens shells.
4 specimens sea plants (corals).
- FIELD COLUMBIAN MUSEUM.
Collected by O. C. Farrington :
5 crayfishes—Horse Cave, Ky.
3 blind fishes—Horse Cave, Ky.
1 cave cricket—Little Wyandotte Cave, Ind.
10 salamanders (8 young)—Wyandotte Cave, Ind.
- Collected by E. Heller :
5 lizards, 1 turtle, 4 snakes—Nicasio, Cal.
53 rodents and carnivores—California.
58 rodents and carnivores—California.
7 rats, 3 shrews, 11 field mice, 12 voles, 2 chipmunks, 7 skunks, 6 gophers,
2 spermophiles, 2 squirrels, 2 rabbits—California.
- Collected by F. E. Lutz :
160 specimens rats, mice, gophers, bats and rabbits—Mexico.
184 bats—Mexico.
2 rats—Mexico.
2 rabbits—Mexico.
2 woodchucks—Mexico.
326 insects and bugs—Mexico.
345 insects—Mexico.
- Collected by S. E. Meek :
260 specimens fishes (21 species)—Sault Sainte Marie and Lizard Islands.
75 specimens crayfishes—Sault Sainte Marie and Lizard Islands.
300 specimens lizards, 75 specimens snakes, 100 specimens frogs, 50 specimens salamanders, 5,000 specimens fishes, 100 specimens crayfishes,
100 specimens shells—Mexico.
- Collected by C. L. Owen :
31 specimens insects—Navajo County, Ariz.
- Collected by E. S. Riggs and H. W. Menke :
4 snakes (3 species)—Colorado.
3 horned toads—Colorado.
14 lizards (7 species)—Colorado.
1 bat, 3 field mice, 34 lizards, 4 snakes, 1 frog, 6 fishes—Near Grand Junction, Colorado.
- Collected by Thaddeus Surber :
3 coons, 3 squirrels, 1 weasel, 11 moles, 18 mice—West Virginia.

1 raccoon, 1 opossum, 5 squirrels, 4 moles, 1 flying squirrel, 39 mice, 26 rats—Carolina, Georgia and Florida.
 52 specimens rodents and insectivores, rats, mice, moles, etc.—Florida.
 1 skeleton Allen's muskrat—Florida.
 275 specimens fishes (6 species)—Florida.
 1 rabbit, 1 squirrel, 1 opossum, 24 mice, 6 rats, 12 gophers—Florida.

Purchases :

4 weasels—Minnesota and British Columbia.
 2 weasels, 1 rabbit, 1 muskrat, 1 wolf, 1 badger, 2 foxes—North West Territory.
 3 wildcats—Aberdeenshire, Scotland.
 1 water buck, 1 lion, 1 zebra, 3 roan antelopes, 2 "Sassaby" antelopes, 1 reed buck—South Africa.
 2 elk skins (cow and heifer), 1 pair horns—Olympic Mountains, Wash.
 4 squirrels, 5 chipmunks, 7 shrews, 2 moles, 1 hare, 3 rats, 4 gophers, 2 mice, 1 wildcat—New York, California, British Columbia and Texas.
 1 mink—Manitoba.
 1 bear skull, 5 timber wolf skulls, 2 prairie wolf skulls.
 2 puku, 2 bushbucks, 1 Chanler's antelope, 1 clipspringer, 1 Thomson's gazelle, 2 Harggard's oribi, 1 Jackson's hartebeeste, 1 gemsbok, 1 serow, 1 springbok—Africa and India.
 1 wolf, 1 fox, 4 rabbits, 1 mountain lion skull—Northwest Territory.
 3 wolves, 3 bears, 1 beaver—Kenai Peninsula, Alaska.
 2 mountain beavers, 2 chipmunks, 2 squirrels, 2 moles, 2 jumping mice, 2 gophers, 2 rats—California.
 1 mountain lion and skull—Montana.
 1 timber wolf, 3 timber wolf cubs, 4 flying squirrels—Alberta, Northwest Territory.
 2 chipmunks—Nicasio, Cal.
 1 mountain lion, 1 woodchuck, 1 mink—British Columbia.
 1 Duiker antelope—Polapye, Cape Colony, Africa.
 21 monkeys, 76 squirrels, 1 flying squirrel, 36 bats, 15 wildcats, 3 rats.
 6 antelopes.
 5 monkeys.
 1 sea elephant.

GILBERT, R. W., 3627 Grand boulevard, Chicago.
 1,247 beetles—Cook County, Ill.

JONES, A. B., 1225 Hinman avenue, Evanston.
 1 skin and skeleton of collie dog.

KANE, M., Oakwoods Cemetery, Chicago.
 8 moles—Oakwoods Cemetery, Chicago.
 2 muskrats, 1 mole—Oakwoods Cemetery, Chicago.

KENNEDY, VERNON SHAW AND FRED STEVENSON.
 9 deer, 2 wolves, 1 wildcat—Texas.
 3 Mexican deer.
 2 Mexican peccaries.

KNEELAND, MRS. L. D., Milwaukee, Wis.
 6 specimens corals.

LINCOLN PARK COMMISSIONERS, Chicago.
 1 camel.
 1 striped hyena.
 1 mountain sheep.
 1 Virginia deer skeleton.
 1 mountain sheep skeleton.
 1 kinkajou skeleton.
 1 camel skin and skeleton.

LORENZ, F. A., 5733 Kimbark avenue, Chicago.
 1 wasp's nest—Pennsylvania.

LUTZ, F. E., Chicago.
 4 mice—Jackson Park, Chicago.

RIDGWAY, A. W., Chicago.
 1 rat—Chicago.

- ROSENBERG, ALBERT, Kalamazoo, Mich.
3 specimens brook trout—Kalamazoo, Mich.
- ROTHROCK, H. A., Wyandotte, Ind.
41 bats—Wyandotte Cave, Ind.
- RUBEN, HARRY, 5333 Lake avenue, Chicago.
1 salamander—Jackson Park, Chicago.
- SCLATER, W. L., Cape Town, South Africa.
1 Blessbok antelope, *Domaliscus albifrons*—Orange Free State.
- STANGL, PAUL L., Bacoor, P. I.
213 insects, 1 lizard—Bacoor, P. I.
267 insects, 4 wasp nests—Bacoor, P. I.
- SWIFT, L. R., 7658 Coles avenue, Chicago.
1 salamander—Chicago.
- TOMPSON, A. J., Field Columbian Museum.
1 salamander—Jackson Park, Chicago.
- UNITED STATES COMMISSION TO THE PARIS EXPOSITION 1900.
Collection of Holland fishes comprising 28 specimens.
- UNITED STATES FISH COMMISSION, Washington, D. C.
432 specimens (158 species) Porto Rican fishes.
- WELLES, GEO. P., 27 Waverly place, Chicago.
291 specimens foreign beetles.
6,000 specimens (1,500 species) North American beetles.
- WILLARD, F. C., Tombstone, Arizona.
41 specimens butterflies and moths—Tombstone, Ariz.
8 snakes, 28 lizards, 3 tree toads, 1 centipede—Tombstone, Ariz.
- WILLIAMS, HORACE, Sao Paulo, Brazil.
120 specimens (40 species) fishes—Southeastern Brazil.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Made by C. H. Carpenter:

1,200 negatives, Stanley McCormick expedition to Arizona, 1901.

Made by Geo. A. Dorsey:

60 negatives, Oklahoma Indians, scenery, etc.

Made by J. W. Hudson:

408 negatives, California expedition, 1901.

Made by S. E. Meek:

74 negatives, Mexican expedition, 1901.

Made by H. W. Menke:

69 negatives, field views of fossil expedition to Colorado.

Made by M. L. Miller:

72 negatives, expedition among the Shahaptian Stock.

Made by C. F. Millsbaugh:

142 negatives, Jamaica expedition.

Made by C. L. Owen:

436 negatives, Stanley McCormick expedition to Arizona, 1901.

Made by S. C. Simms:

84 negatives, expedition among the Indians of New Mexico, Arizona and California.

Purchases:

17 lantern slides of Jamaica scenery.

MILLSBAUGH, C. F., Chicago.

8 negatives of Jamaica scenery.

WALKER, J. W., Boston, Mass.

1 negative of Jamaica scenery.

SPECIAL ACCESSIONS.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

CURTIS, WILLIAM E., Washington, D. C.

7 mummy eyes—Arica, Peru.

FIELD COLUMBIAN MUSEUM.

Purchases:

2 reproductions of gold disc brooches.

1 gold chain.

8 gold ear ornaments.

3 rings.

7 fragments gold ornaments.

3 gold chains.

1 flat gold pendant.

7 pairs gold earrings.

1 locket-shaped gold pendant.

3 small fragments of gold ornaments.

10 rings.

HIGINBOTHAM, H. N., Chicago.

1 opalized bone.

4 opalized shells.

1 opalized stone.

DEPARTMENT OF TRANSPORTATION.

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1 Columbia two-track tricycle.

2 Columbia ladies' safety bicycle.

1 wire frame bicycle.

1 Columbia gentlemen's safety.

1 crypto-g geared ordinary bicycle.

AYER, EDWARD E., Chicago.

1 bill of lading (La Glede historical paper).

THE LIBRARY.

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Books, Pamphlets and Serials.

ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Ala.

Bulletins, current nos. (gift).

AMBROSETTI, JUAN B. (the author). Buenos Aires, Argentina.

Notas de Arqueologia Calchaqui.

4 pamphlets.

AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass.

Proceedings, current nos.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,

New York, N. Y.

Proceedings, vol. 49.

AMERICAN BUREAU OF GEOGRAPHY, Winona, Minn.

Bulletin, current nos.

AMERICAN FOLK-LORE SOCIETY, Cambridge, Mass.

Journal of American folk-lore, current nos.

- AMERICAN FORESTRY ASSOCIATION, Washington, D. C.
The Forester, current nos.
- AMERICAN GEOGRAPHICAL SOCIETY, New York City.
Bulletin, current nos.
- AMERICAN INSTITUTE OF HOMEOPATHY, New York City.
Transactions, vol. 56, 1900.
- AMERICAN MICROSCOPICAL SOCIETY, Washington, D. C.
Journal, current nos.
- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
Annual report, 1900.
Bulletin, vol. 11, pt. 3.
Bulletin, vol. 13.
- AMERICAN NUMISMATIC AND ARCHÆOLOGICAL SOCIETY, New York City.
Proceedings and papers, 42d meeting.
- AMERICAN ORIENTAL SOCIETY, New Haven, Conn.
Journal, vol. 21, pt. 2; vol. 22, pt. 1.
- AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia, Pa.
Proceedings, current nos.
- AMERICAN SOAP JOURNAL PUBLISHING CO., Milwaukee, Wis.
Journal, current nos. (gift).
- AMHERST COLLEGE, Amherst, Mass.
Quarterly bulletin, current nos.
- AMSTERDAM ROYAL ACADEMY OF SCIENCES, Amsterdam, Holland.
Proceedings, section of sciences, vol. 2.
Verhandeligen, vol. 7, nos. 1-3.
Zittingsverslagen, vol. 8.
1 pamphlet.
- AMSTERDAM UNIVERSITEITS BIBLIOTHEEK, Amsterdam, Netherlands.
6 inaugural dissertations.
- ANDOVER THEOLOGICAL SEMINARY, Andover, Mass.
Annual report, 1900-01.
- ANDREE, RICHARD, Braunschweig, Germany.
Globus, vols. 78 and 79.
- ANGERS. SOCIETE D'ETUDE SCIENTIFIQUES, Angers, Maine-et-Loire, France.
Bulletin, new ser., vol. 29.
- ANNALES DES MINES, Paris, France.
Annales, current nos.
- ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND, London, England.
Journal, current nos.
- APPLETON, D. & Co., New York City.
Jordan & Kellogg: Animal life (gift).
- ARIZONA UNIVERSITY AGRICULTURAL EXPERIMENT STATION, Tucson, Ariz.
Annual report, 11th, 1900.
Bulletin, current nos. (gift).
- ARKANSAS DEPARTMENT OF STATE, Little Rock, Ark.
Annual report, 1892, vols. 1, 2 and 5, with atlas.
- ARMOUR INSTITUTE OF TECHNOLOGY, Chicago.
Year-book, 1900-01.
3 pamphlets.
- ARTHUR, J. C. (the author), Lafayette, Ind.
Violet rusts of North America.
6 reprints.
- ASA GRAY BULLETIN, Tacoma Park, D. C.
Bulletin, current nos.



HALL 79—ORES OF THE BASE METALS—FIELD COLUMBIAN MUSEUM.

- ASIATIC SOCIETY OF BENGAL, Calcutta, India.
Journal, current nos.
Proceedings, current nos.
- ASSOCIATION OF AMERICAN ANATOMISTS, Washington, D. C.
Proceedings, 14th session.
- AUGSBURG-NATURWISSENSCHAFTLICHER VEREIN FÜR SCHWABEN AND NEUBURG, Augsburg, Germany.
Bericht, 1899.
- AUSTRALIAN MUSEUM, Sydney, Australia.
Annual report, 46th.
Memoir, current nos.
Records, current nos.
Special catalogue, no. 1.
- AUTOMOBILE REVIEW, Chicago.
Journal, current nos. (gift).
- BALTIMORE & OHIO RAILROAD CO., Baltimore, Md.
Book of the Royal Blue, current nos. (gift).
- BARBOUR, E. H. (the author), Lincoln, Neb.
Wells and windmills in Nebraska.
19 reprints.
- BARROWS, D. P., Chicago.
1 monograph.
- BASCOM, FLORENCE (the author), Bryn Mawr, Pa.
The ancient volcanic rocks of South Mountain, Pa.
- BASEL-NATURFORSCHENDE GESELLSCHAFT, Basel, Switzerland.
Publications, vols. 1 and 2.
- BEAL, W. J., Agricultural College, Mich.
1 pamphlet.
- BELOIT COLLEGE, Beloit, Wis.
Catalogue, 1900-01.
- BERGEN'S MUSEUM, Bergen, Norway.
Aarbog, 1900, pts. 1 and 2.
Aarsberetning, 1900.
- BERLIN, A. F. (the author), Allentown, Pa.
Prehistoric implements (gift).
- BERLIN-GESELLSCHAFT FÜR ERDKUNDE, Berlin, Germany.
Bibliotheca geographica, vol. 6.
Verhandlungen, current nos.
Zeitschrift, current nos.
- BERLIN-KÖNIGLICHE BIBLIOTHEK, Berlin, Germany.
Jahres verzeichniss der an den deutschen universitäten erscheinenden
schriften, 1899-1900.
- BERLIN-K. BOTANICAL GARTENS UND MUSEUMS, Berlin, Germany.
Notizblatt, no. 24.
- BERLIN-KÖNIGLICHE MUSEEN, Berlin, Germany.
Führer, 1900.
Veröffentlichungen, vol. 7.
- BERLIN-K. MUSEUM FÜR VOLKERKUNDE, Berlin, Germany.
Ethnologische notizblatt, current nos.
- BERLIN-K. PREUSSISCHE AKADEMIE DER WIS., Berlin, Germany.
Sitzungsberichte, current nos.
- BERLIN - NATURWISSEN - SCHAFTLICHE WOCHENSCHRIFT, Berlin,
Germany.
Naturwissenschaften abhandlungen, heft 28.
- BERLIN-ZOOLOGISCHE SAMMLUNG, Berlin, Germany.
Berichte, 1900.
- BERLINER GESELLSCHAFT FÜR ANTHROPOLOGIE, Berlin, Germany.
Zeitschrift für ethnologie, current nos.

- BERN-HOCHSCHUL BIBLIOTHEK, Bern, Switzerland.
9 inaugural dissertations.
- BERNICE PAUCHI BISHOP MUSEUM, Honolulu, Hawaii.
Fauna Hawaiiensis, vol. 2, pt. 4.
Memoirs, vol. 1, no. 2.
Occasional papers, vol. 1, nos. 1 and 2.
- BEYER, GEORGE E. (the author), New Orleans, La.
1 pamphlet.
- BILLINGS, F. (the author), Munchen, Germany.
2 pamphlets (gift).
- BIOLLY, P. (the author), San Jose, Costa Rica.
1 reprint (gift).
- BLACK DIAMOND COMPANY, Chicago.
Black Diamond, current nos. (gift).
- BOMBAY PRESIDENCY. DEPARTMENT OF LAND RECORDS AND
AGRICULTURE, Bombay, India.
Crop experiments report, 1898-99.
- BOSTON. MUSEUM OF FINE ARTS, Boston, Mass.
Annual report, 25th, 1900.
Catalogue of Japanese pottery.
- BOSTON PUBLIC LIBRARY, Boston, Mass.
Annual list of new and important books, 1899-1900.
Annual report, 49th.
Monthly bulletin, current nos.
- BOSTON SOCIETY OF NATURAL HISTORY, Boston, Mass.
Proceedings, current nos.
- BOSTON TRANSIT COMMISSION, Boston, Mass.
Annual report, 6th, 1900.
- BOURINOT, J. G. (the author), Ottawa, Canada.
4 reprints.
- BOWDITCH, C. P. (the author), Boston, Mass.
3 reprints.
- BOWDOIN COLLEGE, Brunswick, Me.
Maine Library Commission, 1st report, 1900.
- BRIDGEPORT PUBLIC LIBRARY, Bridgeport, Conn.
Annual report, 20th, 1900.
- BRITISH ASSOCIATION FOR THE ADVANCE OF SCIENCE, London,
England.
Report, 1900.
- BRITISH COLUMBIA BUREAU OF MINES, Victoria, B. C.
Annual report, 1900.
- BRITISH COLUMBIA GOVERNMENT PRINTING OFFICE, Victoria, B. C.
Sessional papers, 1900.
Statutes of British Columbia, 1897, 1898, 1899, 1900 (gift).
- BRITISH MUSEUM, London, England.
Hand list of the genera and species of birds, vol. 2.
- BROOKLYN INSTITUTE OF ARTS AND SCIENCES, Brooklyn, N. Y.
Bulletin, vol. 1, no. 1 (gift).
- BROOKLYN LIBRARY, Brooklyn, N. Y.
Bulletin, current nos.
- BROWN UNIVERSITY, Providence, R. I.
Catalogue, 1900-'01.
- BRUNET, L., Paris, France.
Revue generale des sciences, current nos.
- BRUXELLES. ACADEMIE ROYALE DES SCIENCES, Bruxelles, Belgium.
Annuaire, 1901.
Bulletin, current nos.

- BRUXELLES. MUSEE ROYAL D'HISTOIRE NATURELLE DE BELGIQUE, Bruxelles, Belgium.
Memoires, 1900.
- BRUXELLES. SOCIÉTÉ D'ARCHAÉOLOGIE, Bruxelles, Belgium.
Annals, current nos.
Annuaire, vol. 11.
- BRUXELLES. SOCIÉTÉ ROYALE LINNÉENNE, Bruxelles, Belgium.
Bulletin, current nos.
- BÜCKING, H. (the author), Strassburg, Germany.
1 reprint.
- BUENOS AIRES. INSTITUTO GEOGRAFICO, Buenos Aires, Argentina.
Boletín, current nos.
- BUENOS AIRES. MUSEO NACIONAL, Buenos Aires, Argentina.
Comunicaciones, current nos.
- BUFFALO PUBLIC LIBRARY, Buffalo, N. Y.
Annual report, 1900.
- BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, N. Y.
Bulletin, vol. 1.
- BURKHOLDER, J. B., Chicago, Ill.
9 monographs (gift).
- BURT, E. A. (the author), Middlebury, Vt.
1 reprint.
- BUSCHAN, GEORGE (the author), Stettin, Germany.
2 reprints.
- BUSSEY INSTITUTION, Boston, Mass.
Bulletin, vol. 2, pt. 9.
- CALCUTTA ROYAL BOTANIC GARDEN, Calcutta, India.
Annual report, 1900-01.
Annual report on the Government Cinchona Plantation in Bengal, 1899-1900.
- CALIFORNIA ACADEMY OF SCIENCES, San Francisco, Cal.
Proceedings, current nos.
- CALIFORNIA AGRICULTURAL EXPERIMENT STATION, Berkeley, Cal.
Bulletin, current nos.
- CALIFORNIA STATE LIBRARY, Sacramento, Cal.
Biennial reports, 50th and 51st, 1898-1900.
- CALIFORNIA UNIVERSITY, Berkeley, Cal.
Annual report, 1897-98.
Board of Regents' report, 1900.
Bulletin of the Department of Geology, vol. 2, no. 7.
University Chronicle, current nos.
- CAMBRIDGE MUSEUMS AND LECTURE ROOMS SYNDICATE, Cambridge, England.
Annual report, 35th.
- CAMBRIDGE PUBLIC LIBRARY, Cambridge, Mass.
Annual report, 1900.
Bulletin, current nos.
- CAMBRIDGE UNIVERSITY LIBRARY, Cambridge, England.
Annual report, 1900.
- CAMBRIDGE UNIVERSITY-MUSEUM OF ZOOLOGY, Cambridge, England.
Revision of the coleopterous family erotylidæ, by Gratch.
- CANADA DEPARTMENT OF MARINE AND FISHERIES, Ottawa, Canada.
Annual report, 32d, 1899.
2 special reports.
- CANADA GEOLOGICAL SURVEY, Ottawa, Canada.
1 map, 1900.
- CANADA ROYAL SOCIETY, Ottawa, Canada.
□ □ Proceedings and transactions, ser. 2, vol. 5.

- CANADIAN INSTITUTE, Toronto, Canada.
 Proceedings, current nos.
 Transactions, current nos.
- CAPE GOVERNMENT HERBARIUM, Cape Town, Cape Colony.
 Annual report, 1899.
- CARNEGIE INSTITUTE, Pittsburg, Pa.
 Fifth celebration of Founder's day.
- CARNEGIE INSTITUTE, DEPARTMENT OF FINE ARTS, Pittsburg, Pa.
 Fifth annual exhibit, 1900.
 2 catalogues.
- CARNEGIE LIBRARY, Pittsburg, Pa.
 Annual report, 5th.
- CARNEGIE MUSEUM, Pittsburg, Pa.
 Memoirs, vol. 1, no. 1.
- CARPENTER, GEORGE H., Dublin, Ireland.
 Irish Naturalist, vols. 1, 4, 5, 9, 10 and current nos.
- CARR, LUCIEN (the author), Cambridge, Mass.
 The Mascoutins.
- CATHOLIC UNIVERSITY OF AMERICA, Washington, D. C.
 Catholic University bulletin, current nos.
- CHAUVERO, ALFREDO, Mexico, Mex.
 Calendario-Antiguos Indios.
 Pinturas jeoglíficos, pts. 1 and 2.
 2 reprints.
- CHICAGO ACADEMY OF SCIENCES, Chicagó.
 Bulletin, current nos.
- CHICAGO ART INSTITUTE, Chicago.
 Annual reports, 21st and 22d.
 Catalogue of thirteenth annual exhibition by American artists.
 Exhibition of works by Chicago artists, 1901.
 8 other catalogues.
- CHICAGO HISTORICAL SOCIETY, Chicago, Ill.
 Report of special meeting, Feb. 12, 1900.
- CHICAGO PUBLIC LIBRARY, Chicago, Ill.
 Annual report, 28th.
- CHICAGO UNIVERSITY, Chicago, Ill.
 Annual Register, 1900-01.
 Botanical gazette, current nos.
 Journal of geology, current nos.
 University record, vol. 6, no. 3.
- CHILE—BIBLIOTECA NACIONAL, Santiago de Chile.
 Annario de la Prensa Chilena, 1886-96, 11 vols.
 Colección de documentos Meditos para la historia de Chile, 18 vols.
 26 other vols., geographical and historical.
- CINCINNATI HOUSE OF REFUGE, Cincinnati, Ohio.
 Annual report, 50th, 1900.
 Annual report, 1850-1900 (gift).
- CINCINNATI MUSEUM ASSOCIATION, Cincinnati, Ohio.
 Annual Report, 20th, 1900.
- CINCINNATI PUBLIC LIBRARY, Cincinnati, Ohio.
 Annual list of books added during 1900.
 Library leaflet, current nos.
 Quarterly bulletin, current nos.
- CINCINNATI SOCIETY OF NATURAL HISTORY, Cincinnati, Ohio.
 Journal, current nos.
- CINCINNATI TECHNICAL SCHOOL, Cincinnati, Ohio.
 Annual report, 13th.
- CINCINNATI UNIVERSITY, Cincinnati, Ohio.
 Catalogue, 1900-01 (gift).

- CLAUSTHAL-K. BERGAKADEMIE, Clausthal, Hanover, Germany.
Program, 1900-'01.
- CLEVELAND PUBLIC LIBRARY, Cleveland, Ohio.
Annual report, 32d.
Quarterly, current nos.
- COCKERELL, T. D. A. (the author), Las Vegas, N. M.
Contributions to the entomology of New Mexico.
7 other pamphlets.
- COHEN, E. (the author), Greifswold, Germania.
The meteoric irons from Griqualand East, South Africa.
6 pamphlets.
- COLBY COLLEGE, Waterville, Me.
Catalogue, 1900-'01.
- COLLIERY ENGINEER CO., Scranton, Pa.
Mines and Minerals, current nos. (gift).
- COLLINGE, W. E., Birmingham, England.
6 reprints.
- COLORADO AGRICULTURAL EXPERIMENT STATION, Fort Collins,
Colo.
Bulletin, current nos. (gift).
- COLORADO BUREAU OF MINES, Denver, Colo.
Bulletin, no. 4.
Report, 1899 and 1900.
- COLORADO SCIENTIFIC SOCIETY, Denver, Colo.
Proceedings, current nos.
- COLORADO COLLEGE SCIENTIFIC SOCIETY, Colorado Springs, Colo.
Colorado College Studies, vol. 9.
- COLORADO STATE LIBRARY, Denver, Colo.
Colorado Arbor Day notes.
- COLUMBIA UNIVERSITY, New York City.
Catalogue, 1900-'01.
Quarterly, current nos.
- CONNECTICUT ACADEMY OF ARTS AND SCIENCES, New Haven, Conn.
Transactions, vol. 10, pt. 2.
- CONNECTICUT AGRICULTURAL EXPERIMENT STATION, New Haven,
Conn.
Annual report, 24th, 1900.
Bulletin, current nos.
- CONNECTICUT COMMISSIONERS OF FISHERIES AND GAME, Had-
lyme, Conn.
Biennial report, 1899-1900.
- CONNECTICUT SHELL FISH COMMISSION, South Norwalk, Conn.
Annual report, 1883-1900.
- COOPER ORNITHOLOGICAL CLUB, Santa Clara, Cal.
Pacific Coast Avifauna, Nos. 1 and 2.
The Condor, current nos.
- COOPER UNION, New York City.
Annual report, 1900.
- CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION,
Ithaca, N. Y.
Bulletin, current nos. (gift).
- COSTA RICA. INSTITUTO FISICO-GEOGRAFICO NACIONAL, San José,
Costa Rica.
Boletin, vol. 1, no. 1.
- COSTA RICA. MUSEO NACIONAL, San José, Costa Rica.
Informe, 1898-1899, 1899-1900.
1 pamphlet.

- COULTER, STANLEY (the author), Bookville, Ind.
Flora of Indiana.
5 reprints.
- CRAGIN, F. W., Colorado Springs, Colo.
2 pamphlets (gift).
- CZERNOWITZ, K.K. FRANZ - JOSEPHS - UNIVERSITÄT, Czernowitz, Austria.
Alma mater Francisco Josephina.
Feierliche inauguration des rectoris, 1900-'01.
Festschrift, 1875-1900.
Uebersicht der Akademischen behorden, 1901-'02.
Verzeichnis der öffentlichen vorlesungen, 1901, 1901-'02.
- DAVENPORT ACADEMY OF NATURAL SCIENCES, Davenport, Iowa.
The flora of Scott and Muscatine counties, Iowa.
- DELAWARE AGRICULTURAL EXPERIMENT STATION, Newark, Del.
Bulletin, current nos. (gift).
- DELLENBAUGH, F. S. (the author), New York City.
The North American Indians of yesterday (gift).
- DENISON UNIVERSITY, Granville, Ohio.
Bulletin, vols. 1-10, vol. 11, ar. 1-10.
- DETROIT MUSEUM OF ART, Detroit, Mich.
Annual report, 1900.
- DETROIT PUBLIC LIBRARY, Detroit, Mich.
Annual report, 36th.
Bulletin of books added during 1900.
- DEUTSCHE GEOLOGISCHE GESELLSCHAFT, Berlin, Germany.
Zeitschrift, current nos.
- DEUTSCHE GESELLSCHAFT FÜR NATUR UND VÖLKERKUNDE, OSTASIENS, Tokio, Japan.
Japanische mythologie.
Mittheilungen, vol. 8, pt. 2.
- DEWALQUE, G., Liége, Belgium.
1 reprint.
- DIESERUD, JUUL (the author), Washington, D. C.
1 reprint.
- DIAL PUBLISHING CO., Chicago.
The Dial, current nos. (gift).
- DOLLO, LOUIS, Brussels, Belgium.
1 reprint.
- DRESDEN. K. MINERAL-GEOLOG. MUSEUM, Dresden, Germany.
Mittheilungen, pt. 2.
- DREW THEOLOGICAL SEMINARY, Madison, N. J.
Annual report, 1899-1900.
Year book, 1900-'01.
- DRUGS, OILS AND PAINTS, Philadelphia, Pa.
Journal, current nos. (gift).
- ECKEL, E. C., Albany, N. Y.
1 reprint.
- EDINBURGH GEOLOGICAL SOCIETY, Edinburgh, Scotland.
Transactions, current nos.
- EDINBURGH MUSEUM OF SCIENCE AND ART, Edinburgh, Scotland.
Annual report, 1899.
- EDINBURGH. ROYAL SOCIETY, Edinburgh, Scotland.
Proceedings, vol. 22.
- EIGENMANN, C. H., Bloomington, Ind.
Eyes of the blind vertebrates of North America, pts. 2 and 3.
1 reprint.

- ELECTRICIAN PUBLISHING CO., Chicago.
Western electrician, current nos.
- ELISHA MITCHELL SCIENTIFIC SOCIETY, Chapel Hill, N. C.
Journal, 1895, 1896, 1897, 1898, 1899.
- ELLIS, J. B., Newfield, N. J.
The North American phyllostictas.
- ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA, Pittsburg, Pa.
Memberships, current nos.
Proceedings, current nos.
- ENGLER, ADOLF, Berlin, Germany.
1 pamphlet.
- ENOCH PRATT FREE LIBRARY, Baltimore, Md.
Annual report, 15th.
Bulletin, current nos.
- ESSEX INSTITUTE, Salem, Mass.
Annual report, 1900-'01.
Bulletin, vols. 1-8, 14-27.
Historical collection, vol. 36, no. 4.
- EVANS, A. W., New Haven, Conn.
3 reprints.
- EVANSTON FREE PUBLIC LIBRARY, Evanston, Ill.
Annual report, 27th.
- FERN BULLETIN CO., Binghamton, N. Y.
Fern bulletin, current nos.
- FERNALD, M. L. (the author), Cambridge, Mass.
3 reprints.
- FERRILL, W. C. (the author), Colorado Springs, Colo.
Notes on Colorado winter birds (gift).
- FIELD COLUMBIAN MUSEUM.
Publications, 10.
Purchase:
83 books.
16 pamphlets.
66 periodicals.
- FLORIDA AGRICULTURAL EXPERIMENT STATION, Lake City, Fla.
Bulletin, current nos. (gift).
- FOREST AND STREAM PUBLISHING CO., Chicago.
Forest and stream, current nos. (gift).
- FRANKLIN INSTITUTE, Philadelphia, Pa.
Journal, current nos.
- FRANKLIN AND MARSHALL COLLEGE, Lancaster, Pa.
Obituary record, vol. 2, no. 1.
- FREIBURG. K. SÄCHS. BERGAKADEMIE, Freiburg, Germany.
Programm, 1901-'02.
- FREIBURG. NATURFORSCHENDE GESELLSCHAFT, Freiburg, Germany.
Bericht, vol. 2, pt. 2.
- FRIEDLANDER, R. AND SOHN, Berlin, Germany.
Naturæ novitates, current nos.
- FÜRBRINGER, MAX, Jena, Germany.
1 reprint.
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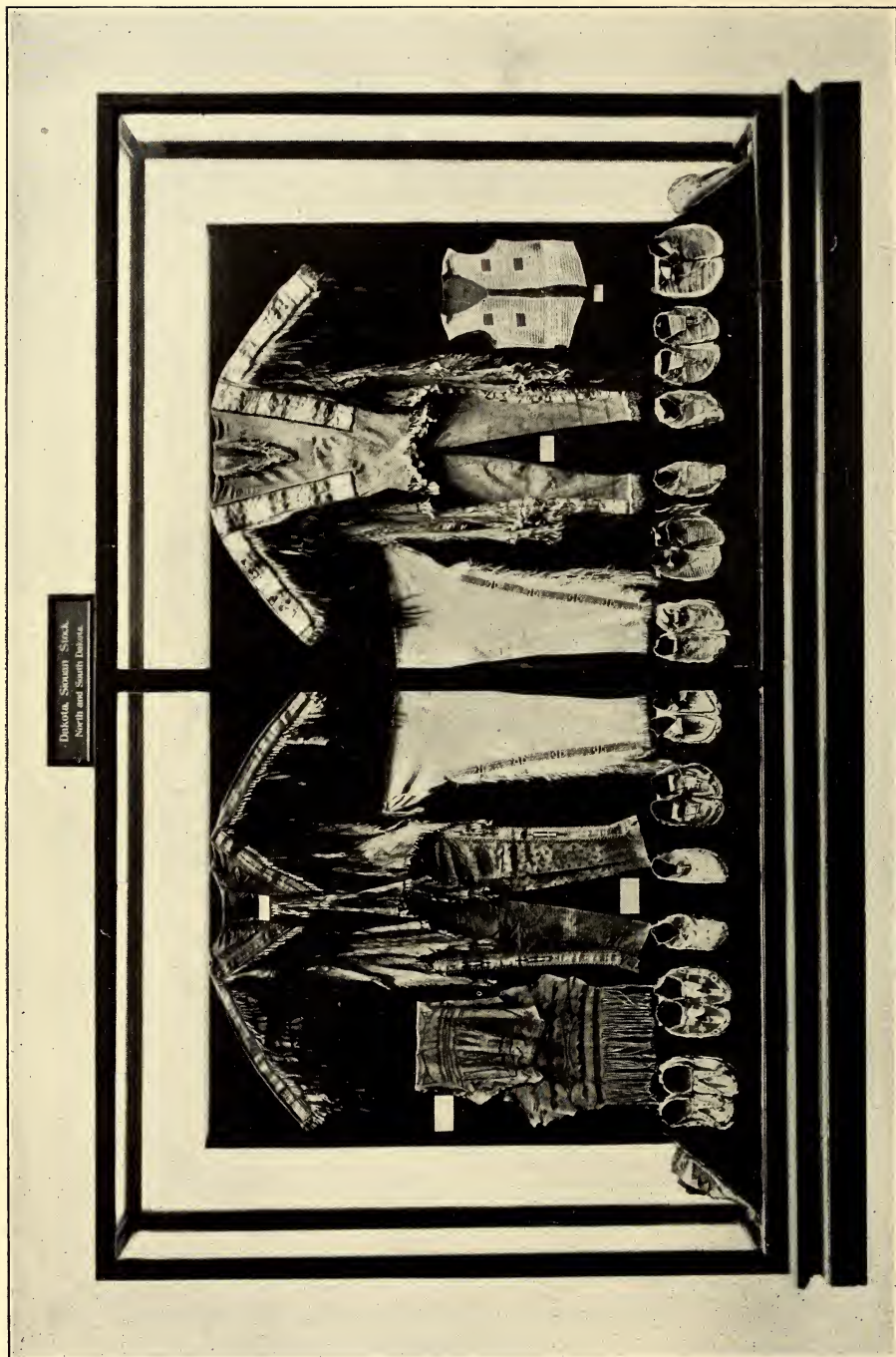
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- PENFIELD, S. L., New Haven, Conn.
1 reprint.
- PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION, State
College, Pa
Bulletin, current nos. (gift).
- PENNSYLVANIA HISTORICAL SOCIETY, Philadelphia, Pa.
Pennsylvania magazine of history and biography, current nos.
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Collection of state reports, 1898-1900, 33 vols.
- PENNSYLVANIA UNIVERSITY, Philadelphia, Pa.
Bulletin no. 1. First ser.
Catalogue 1900-'01.
Provost's report, 1900.
- PEORIA PUBLIC LIBRARY, Peoria, Ill.
Annual report, 20th.
Quarterly bulletin, current nos.
- PERKINS INSTITUTION AND MASSACHUSETTS SCHOOL FOR THE
BLIND, Boston Mass.
Annual report, 60th.
- PHARMACEUTICAL REVIEW PUBLISHING CO., Milwaukee, Wis.
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- PHILADELPHIA ACADEMY OF NATURAL SCIENCES, Philadelphia, Pa.
Proceedings, current nos.
Report of the treasurer, 1900.

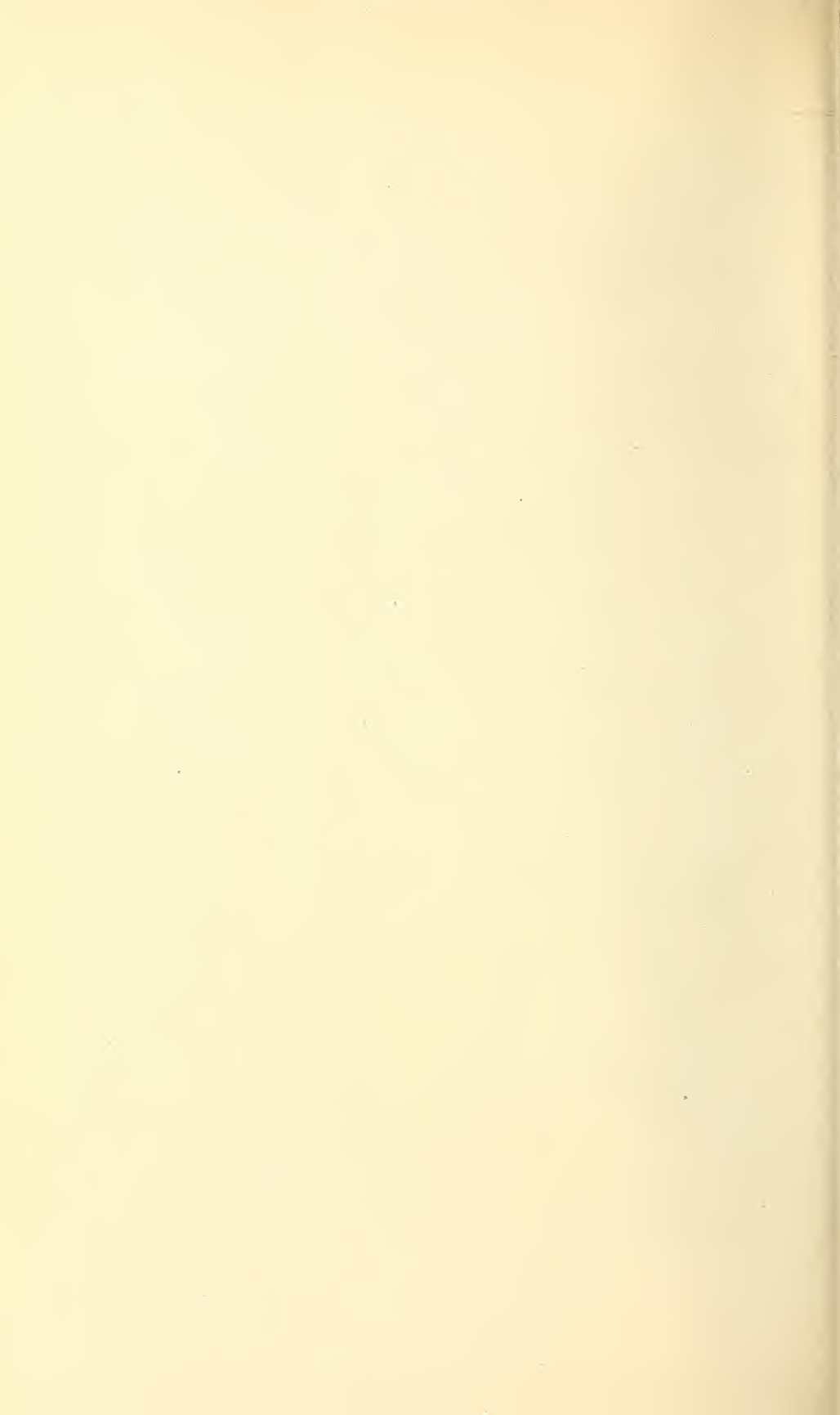
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American journal of pharmacy, current nos. (gift).
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Transactions, vol. 22.
- PHILADELPHIA COMMERCIAL MUSEUM, Philadelphia, Pa.
10 pamphlets.
- PISA-SOCIETA TOSCANO DI SCIENZE NATURALI, Pisa, Italy.
Memoirs, vol. 17.
Proceedings, vol. 12.
- POLLARD, C. L., Washington, D. C.
6th list of additions to the flora of Washington, D. C.
2 other reprints.
- POPULAR SCIENCE PUBLISHING CO., New York City.
Popular science, current nos.
- PORTLAND PUBLIC LIBRARY, Portland, Me.
Annual report, 1900, 1900-'01.
Bulletin, current nos.
- PRAG. K.K. DEUTSCHEN CARL-FERDINANDS-UNIVERSITÄT, Prag,
Bohemia.
Feierliche installation des rectors, 1900-'01.
Ordnung der vorlesungen, sommer, 1901.
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- PRATT INSTITUTE. FREE LIBRARY, Brooklyn, N. Y.
Report, 1899-1900.
- PRESTO CO., Chicago.
Presto, current nos. (gift).
- PREUSS, K. T., Berlin, Germany.
2 reprints.
- PRINCETON. E. M. MUSEUM OF GEOLOGY AND ARCHÆOLOGY,
Princeton, N. J.
Annual report, 1882 and 1884.
- PRINCETON UNIVERSITY, Princeton, N. J.
Bulletin, current nos.
Catalogue, 1900-'01.
- PROVIDENCE ATHENÆUM, Providence, R. I.
Annual report, 23d.
Bulletin, current nos.
- PURDUE UNIVERSITY, Lafayette, Ind.
Annual reports, 1899-1900.
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Experiment station bulletin, current nos.
- QUEENSLAND. ROYAL SOCIETY, Brisbane, Queensland.
Proceedings, vol. 16.
- QUEENSLAND MUSEUM, Brisbane, Queensland.
Annals, no. 5.
- RAILWAY LIST CO., Chicago.
Railway master mechanic, current nos. (gift).
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- RAMOND, GEORGE (the author), Paris, France.
6 reprints.
- REDWOOD LIBRARY, Newport, R. I.
Catalogue of the Calvert collection of books.
- REED, H. S., Denver, Colo.
Collection of state reports, 7 books and 2 pamphlets.
- REVUE GENERALE DES SCIENCE, Paris, France.
Revue, current nos.

- RHODE ISLAND AGRICULTURAL EXPERIMENT STATION, Kingston,
R. I.
Annual report, 13th, pt. 2.
Bulletin, current nos. (gift).
- RICHET, CHARLES, Paris, France.
Revue scientifique, current nos.
- RIPON COLLEGE, Ripon, Wis.
Catalogue, 1900-'01.
- ROCHESTER ACADEMY OF SCIENCE, Rochester, N. Y.
Proceedings, vol. 4, pp. 1-64.
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Atti, current nos.
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Journal, vol. 16, no. 50.
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Journal, vol. 32.
- ROYAL ASIATIC SOCIETY, STRAITS BRANCH, Singapore, Asia.
Journal, nos. 34 and 35.
- RUSSELL, FRANK (the author), Cambridge, Mass.
3 reprints.
- RUSSELL, ISRAEL C. (the author), Ann Arbor, Mich.
Geology of the Cascade mountains of northern Washington.
- RUTLEY, FRANK, London, England.
2 reprints.
- SACKENBERGIAN SOCIETY OF NATURALISTS, Frankfort-on-the-Main,
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Bericht, 1900.
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Transactions, current nos.
- ST. LOUIS MERCANTILE LIBRARY ASSOCIATION, St. Louis, Mo.
Annual report, 55th.
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Catalogue, 1901.
- ST. PAUL PUBLIC LIBRARY, St. Paul, Minn.
Annual reports, 18th and 19th.
- ST. PETERSBURG. ACADEMIE IMPÉRIALE DES SCIENCES, St.
Petersburg, Russia.
Bulletin, current nos.
Memoires, vols. 6, 7, 8, 9 and vol. 10, no. 1.
- ST. VIATEUR'S COLLEGE, Bourbonnais, Ill.
The Viatorian, current nos.
- SALEM PUBLIC LIBRARY, Salem, Mass.
Bulletin, current nos.
Trustees' report, 1900.
- SAN FRANCISCO. FREE PUBLIC LIBRARY, San Francisco, Cal.
Annual report, 1899-1900.
- SAN FRANCISCO. MECHANICS INSTITUTE, San Francisco, Cal.
Bulletin, current nos.
- SAVILLE, MARSHALL, New York City.
Cruciform structures near Mitla.
- SCHMALZ, J. B. (the author), Hendersonville, N. C.
2 pamphlets.
- SEWARD, G. F. (the author), New York City.
Taxation in New York.
2 other pamphlets (gift).

- SHELDON, J. M. A. (the author), Deerfield, Conn.
Concretions from the Champlain clays of the Connecticut valley (gift).
- SHOOTING AND FISHING PUBLISHING CO., New York City.
Shooting and fishing, current nos. (gift).
- SKIFF, F. J. V., Field Columbian Museum.
A collection of exhibitors' catalogues and official catalogues of the Paris Exposition, 59 books and 100 pamphlets.
American Institute of Mining Engineers: List of officers, etc., 1900.
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American Institute of Mining Engineers: Transactions, vol. 29 (gift).
- SMITH, H. I. (the author), New York, N. Y.
8 reprints.
- SMITHSONIAN INSTITUTION, Washington, D. C.
Annual reports, 1898-'99
Miscellaneous collections, nos. 1253 and 1258.
- SOCIEDAD CIENTIFICA "ANTONIO ALZATE," Mexico.
Memorias y revista, current nos.
- SOCIEDAD ESPAÑOLA DE HISTORIA NATURAL, Madrid, Spain.
Anales, vol. 9
- SOCIETA GEOGRAFICA ITALIANA, Rome, Italy.
Bulletino, current nos.
- SOCIETÀ ITALIANA DI ANTHROPOLOGIA, Firenze, Italy.
Archivio, vol. 30, pts. 1 and 2.
- SOCIÉTÉ DES SCIENCES NATURELLES DE REIMS, Reims, France.
Bulletin, vol. 9, no. 4, vol. 10, no. 1.
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Bulletin, new ser., vol 6, nos. 5, 6 and 7.
- SOCIETY FOR PSYCHICAL RESEARCH, Boston, Mass.
Proceedings, vol. 24, nos. 39-42.
- SOUTH AFRICAN MUSEUM, Cape Town, S. A.
Annals, vol. 2, pts. 3-5.
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Transactions, current nos.
- SOUTH AUSTRALIA ROYAL SOCIETY, Adelaide, S. A.
Transactions, vol. 24, pt. 2.
- SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION, Clemson College, S. C.
Bulletin, current nos.
- SOUTH DAKOTA. STATE SCHOOL OF MINES, Rapid City, S. D.
Bulletin, current nos.
- SPRINGFIELD. CITY LIBRARY ASSOCIATION, Springfield, Mass.
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- STARR, FREDERICK, Chicago.
3 reprints.
- STATEN ISLAND. NATURAL SCIENCE ASSOCIATION, Staten Island, N. Y.
Proceedings, current nos.
- STEINER, B. C., Baltimore, Md.
17 pamphlets of the writings of Lewis H. Steiner.
- STOCKHOLM. KONGL. VENETSKAPS-AKADEMIEN, Stockholm, Sweden.
Bihang, vol. 25.
Handlingar, vol. 31.
- STORRS' AGRICULTURAL EXPERIMENT STATION, Storrs, Conn.
Annual report, 12th.
Bulletin, current nos. (gift).



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- STRASSBURG. KAISER-WILHELMS-UNIVERSITÄT, Strassburg, Germany.
14 inaugural dissertations.
- STRETTON, C. E. (the author), Leicester, England.
The history of the Britannia tubular bridge.
1 other pamphlet.
Journal of the Society of Arts, current nos.
- SYDERE, A. H., Toronto, Ontario.
Report of the Bureau of Mines, 1900.
34 government reports for 1899 and 1900.
- TAUNTON PUBLIC LIBRARY, Taunton, Mass.
Annual report, 35th.
- TEXAS ACADEMY OF SCIENCE, Austin, Tex.
Transactions, 1899, vol. 3.
- TEXAS AGRICULTURAL EXPERIMENT STATION, College Station, Tex.
Annual reports, 10th and 11th.
Bulletin, current nos. (gift).
- TEXAS UNIVERSITY, Austin, Tex.
Mineral survey bulletin, no. 1.
- THEOSOPHICAL SOCIETY, Chicago.
Theosophical review, current nos. (gift).
- THILENIUS, G., Strassburg, Germany.
10 reprints.
- TOKYO BOTANICAL SOCIETY, Tokyo, Japan.
Botanical magazine, current nos.
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Calendar, 1900-'01 (gift).
- TORINO. R. ACCADEMIA DELLE SCIENZE, Torino, Italy.
Atti, current nos.
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- TORONTO UNIVERSITY, Toronto, Canada.
Studies, anatom. ser., no. 1.
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- TORRALBAS, J. I., Havana, Cuba.
Flora of Cuba (gift).
- TORREY BOTANICAL CLUB, New York City.
Bulletin, current nos.
- TRACY, S. M., Biloxi, Miss.
1 reprint.
- TRING. ZOOLOGICAL MUSEUM, Tring, England.
Novitates zoologicae, current nos.
- TRINITY COLLEGE, Dublin, Ireland.
Hermathena, vol. 26.
- TRÖNDHJEM. K. NORSKE VIDENSKABERS SELSKABS, Tröndhjem, Norway.
Skrifter, 1895-1899.
- TRUDE, A. P., Chicago.
A study of prehistoric anthropology (gift).
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- TURNER, H. W. (the author), San Francisco, Cal.
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- U. S. AGRICULTURAL DEPARTMENT, Washington, D. C.
 Annual report, 1900.
 Association of economic entomologists, proceedings, 12th.
 Contributions from the United States National Herbarium, vol. 6.
 Experiment station record, current nos.
 Index to literature relating to animal industry, 1837-1898.
 North American fauna, nos. 19-21.
 Our foreign trade in agricultural products, 1894-1898.
 Progress of the beet-sugar industry in the United States, 1899 and 1900.
 Yearbook, 1900.
 62 bulletins.
 35 circulars.
 6 other reports.
- U. S. AMERICAN REPUBLICS BUREAU, Washington, D. C.
 Monthly bulletin, current nos.
- U. S. COAST AND GEODETIC SURVEY, Washington, D. C.
 Report, 1899.
- U. S. EDUCATION BUREAU, Washington, D. C.
 Report of the Commissioner, vols. 1 and 2.
- U. S. ETHNOLOGY BUREAU, Washington, D. C.
 Annual reports, 17th, pts. 1 and 2, 18th, pt. 1.
 The Eskimo about Bering Strait.
- U. S. GEOLOGICAL SURVEY, Washington, D. C.
 Bulletin, nos. 163-176.
 Monograph, vol. 39.
 1 chart.
- U. S. GOVERNMENT PRINTING OFFICE, Washington, D. C.
 Catalogue, current nos.
 Catalogue of U. S. Public Documents, index, 3 vols. (gift).
- U. S. INTERIOR DEPARTMENT, Washington, D. C.
 Annual report of Indian Commissioners, 1872 and 1881.
 Bibliography of North American paleontology.
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 6 maps.
- U. S. LIBRARY OF CONGRESS, Washington, D. C.
 Annual report of the Librarian, 1900.
 Calendar of Washington manuscripts.
 List of American newspapers.
 List of books relating to the theory of colonization, government of dependencies, Porto Rico and Danish West Indies.
 Union list of periodicals, transactions, etc., in the principal libraries of the District of Columbia.
- U. S. NATIONAL MUSEUM, Washington, D. C.
 Annual report, 1897, pt. 2, and 1899.
 Bulletin, no. 39.
 Proceedings, vol. 22.
 Report on condition and progress, 1898-'99.
 Special bulletin, pt. 1.
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- U. S. NAVAL ACADEMY, Annapolis, Md.
 Annual register, 1900-'01.
- U. S. STATE DEPARTMENT, Washington, D. C.
 Commercial relations of the United States, vol. 2.
 Consular reports, current nos.
 Review of the world's commerce, 1900.
 Special consular reports, vols. 19, 20, pts. 1-21 (gift).
- U. S. TREASURY DEPARTMENT, Washington, D. C.
 Annual report director of the mint, 1900.
 Commerce and navigation of the United States, vol. 1, 1900.
 Report of the precious metals in the United States, 1899 (gift).

- U. S. WAR DEPARTMENT, Washington, D. C.
Copper exploring expedition in Alaska, 1899.
Index-catalogue of Surgeon General's office, ser. 2, vol. 5.
- UPSALA. K. UNIVERSITETS-BIBLIOTHEK, Upsala, Sweden.
Bulletin of Geological Institute, vol. 5, pt. 1.
- UTAH. AGRICULTURAL COLLEGE AND EXPERIMENT STATION,
Logan Utah.
Annual report, 11th.
Bulletin, current nos. (gift).
- VALENTINE MUSEUM, Richmond, Va.
Annual report, 1900.
- VAN DENBURGH, JOHN (the author), Los Gatos, Cal.
1 reprint.
- VANDERBILT UNIVERSITY, Nashville, Tenn.
Register, 1900-'01.
- VAUGHAN, J. C., Chicago.
Corn and potato manual (gift).
- VERMONT AGRICULTURAL EXPERIMENT STATION, Burlington, Vt.
Annual report, 13th.
Bulletin, current nos.
- VERMONT. GEOLOGICAL SURVEY, Burlington, Vt.
Mineral resources of Vermont, 1899-1900 (gift).
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Catalogue, 1900-'01.
Report on the marbles, slate and granite industries of Vermont.
State geologist's report, 1899-1901.
- VICTORIA. FIELD NATURALISTS' CLUB, Melbourne, Victoria.
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Annual report department of agriculture, 1900.
The insectivorous birds of Victoria.
2 pamphlets.
- VICTORIA. ROYAL SOCIETY OF MELBOURNE, Melbourne, Victoria.
Proceedings, vol. 13, pts. 1 and 2, vol. 14, pt. 1.
- VICTORIA UNIVERSITY, Toronto, Canada.
Calendar, 1900-'01, 1901-'02 (gift).
- VICTORIA ZOOLOGICAL AND ACCLIMATIZATION SOCIETY, Melbourne,
Victoria.
Annual report, 37th.
- VIRCHOW, HANS, Berlin, Germany.
2 reprints.
- VIRGINIA AGRICULTURAL EXPERIMENT STATION, Blacksburg, Va.
Bulletin, current nos. (gift).
- VIRGINIA UNIVERSITY, Charlottesville, Va.
Bulletin, new ser., vol. 1, nos. 1 and 3.
- WAGNER FREE INSTITUTE OF SCIENCE, Philadelphia, Pa.
Transactions, vol. 3, pt. 5.
- WALTER, H. E., Chicago.
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- WANGANUI PUBLIC MUSEUM, Wanganui, New Zealand.
Annual reports, 1899-1900.
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Bulletin, vols. 13 and 14, pp. 1-166.

- WASHINGTON UNIVERSITY, St. Louis, Mo.
Catalogue, 1900-'01.
- WATT, GEORGE, Calcutta, India.
Dictionary of the economic products of India, vols. 1-6 (gift).
- WELLESLEY COLLEGE, Wellesley, Mass.
Calendar, 1900-'01.
- WESLEYAN UNIVERSITY, Middletown, Conn.
Catalogue, 1900-'01.
- WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION, Morgantown, W. Va.
Bulletin, current nos. (gift).
- WESTERN AUSTRALIA GEOLOGICAL SURVEY, Perth, W. Australia.
Annual progress report, 1899.
Bulletin, nos. 4 and 5.
- WESTERN UNION TELEGRAPH CO., New York City.
Annual report, 1900 (gift).
- WHITFIELD, R. P. (the author), New York City.
6 reprints.
- WIEN. ANTHROPOLOGISCHE GESELLSCHAFT, Wien, Austria.
Mittheilungen, vols. 29 and 30, nos. 1-4.
- WIEN. K.K. NATURHISTORISCHES HOFMUSEUM, Wien, Austria.
Annalen, vol. 14, vol. 15, no. 1.
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Bericht, 1899-1900.
Inaugurationsbericht, 1900-'01.
Personalstand, 1900-'01.
Vorlesungsaezeichnis, somersem, 1900.
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Algologische notizen, nos. 7 and 8.
Nyt magazine for naturvidenskaberne, current nos.
Studien uber chlorophycen, nos. 1-7.
- WILLIAMS COLLEGE, Williamstown; Mass.
Catalogue, 1900-'01.
Report, 1900-'01.
- WILLOUGHBY, C. C. (the author), Cambridge, Mass.
1 reprint.
- WINDSOR & KENFIELD PUBLISHING CO., Chicago.
Brick, current nos.
Street railway review, current nos. (gift).
- WISCONSIN ACADEMY OF SCIENCES, Madison, Wis.
Transactions, vol. 12, pt. 2.
- WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY, Madison, Wis.
Bulletin, nos. 3, 5 and 6.
- WISCONSIN STATE HISTORICAL SOCIETY, Madison, Wis.
Historical collections, vol. 15.
Proceedings of 48th meeting.
- WISCONSIN UNIVERSITY. AGRICULTURAL EXPERIMENT STATION, Madison, Wis.
Annual report, 17th.
Bulletin, current nos.
- WORCESTER FREE PUBLIC LIBRARY, Worcester, Mass.
Annual report, 41st.
Bulletin, current nos.
- WRIGHT, G. F., Oberlin, Ohio.
1 reprint.



- WÜLFING, E. A. (the author), Tübingen, Germany.
3 pamphlets.
- WYOMING AGRICULTURAL EXPERIMENT STATION, Laramie, Wyo.
Annual reports, 9th and 10th.
Bulletin, current nos. (gift).
- YALE UNIVERSITY, New Haven, Conn.
Annual report, 1899-1900.
Catalogue, 1900-'01.
Report of the librarian, 1899-1900.
Report of the president, 1900-'01.
- YATES, LORENZE G. (the author), Santa Barbara, Cal.
Resources of Santa Barbara, Cal.
- ZIMANYI, KARL (the author), Budapest, Hungary.
4 reprints.
- ZÜRICH. BOTANISCHER GARTEN. UNIVERSITÄT ZÜRICH, Zürich,
Switzerland.
32 inaugural dissertations.
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Jahresbericht, 1899-1900.
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Vierteljahrschrift, vol. 45, nos. 3 and 4.

ARTICLES OF INCORPORATION.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSEN, *Secretary of State*:

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING :

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, Therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,
SECRETARY OF STATE :

SIR :

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purpose of such organization we hereby state as follows, to-wit :

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."
2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archeology, Science and History.
3. The management of the aforesaid museum shall be vested in a board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.
4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence :



HAIDA MEMORIAL COLUMN, 26 FEET HIGH—FIELD COLUMBIAN MUSEUM.



Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaas, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, Geo. M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS, }
COOK COUNTY. } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26th, 1894, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS.

(JANUARY 29, 1900.)

ARTICLE I.

MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons and Honorary Members.

SEC. 2. Annual members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be ground of forfeiture of annual membership.

This said annual membership shall entitle the member to :

First.—Free admittance for himself and family to the Museum on any day.

Second.—Ten tickets every year admitting the bearer to the Museum on pay days.

Third.—A copy of every publication of the Museum sold at the entrance door, and to the annual reports.

Fourth.—Invitations to all receptions, lectures or other entertainments which may be given at the Museum.

SEC. 3. The corporate members shall consist of the persons named in the articles of association, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of association shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as corporate members, shall, within ninety days of their respective election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. The annual dues of corporate members shall be five dollars (\$5.00) after the first year of membership, and no one shall exercise the rights of a corporate member until his dues are paid; and a delinquency of six months in the payment of annual dues shall be ground for forfeiture of corporate membership. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars at any one time shall, upon the unanimous vote of the trustees, become a life member. Life members shall be exempt from all dues.

SEC. 5. Patrons shall be chosen by the Board of Trustees, upon recommendation of the Executive Committee, from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as patrons, shall also be corporate members.

SEC. 6. Honorary members shall be chosen from among persons who have rendered eminent service to science, art or mechanics. They shall be chosen by a vote of the Trustees, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues. In commemoration of the 14th day of October, honorary members shall not be more than fourteen in number at any one time.

SEC. 7. All members of whatever class shall be eligible to appointment upon committees other than the Executive Committee.

ARTICLE II.

OFFICERS.

SECTION 1. The respective members of the Board of Trustees now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board of Trustees at any regular meeting.

SEC. 2. The other officers shall be President, two Vice-Presidents, Secretary and Treasurer, and an Executive Committee of four persons, who shall be chosen by ballot by the Board of Trustees from their own number as early as practicable after the annual meeting in each year. The President shall be *ex-officio* a member of the Executive Committee and Chairman thereof, in addition to the other four members. The Secretary and Treasurer may, or may not, be the same person, and the Secretary may, or may not, be a corporate member.

Any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The President shall appoint from among the Trustees a Committee on Finance, a Committee on Property, an Auditing Committee, and a Committee on Buildings and Grounds, who shall serve during the pleasure of the Board.

SEC. 4. The officers shall perform such duties as ordinarily appertain to their respective offices, and such other duties as the Board of Trustees may from time to time devolve upon them. The Treasurer shall give bond in such amount and with such surety as shall be approved by the Executive Committee, and shall disburse the funds of the Museum only in accordance with the directions of the Executive Committee, upon the signature and counter-signature of such officers as the Executive Committee shall empower thereto.

SEC. 5. The Executive Committee shall have full control of the affairs of the Museum, under the general supervision of the Board of Trustees.

ARTICLE III.

MEETINGS.

SECTION 1. In commemoration of the discovery of America by Christopher Columbus, the annual meeting of the corporate members shall be held on the 14th day of October in each year, except when that day falls on a Sunday, and then

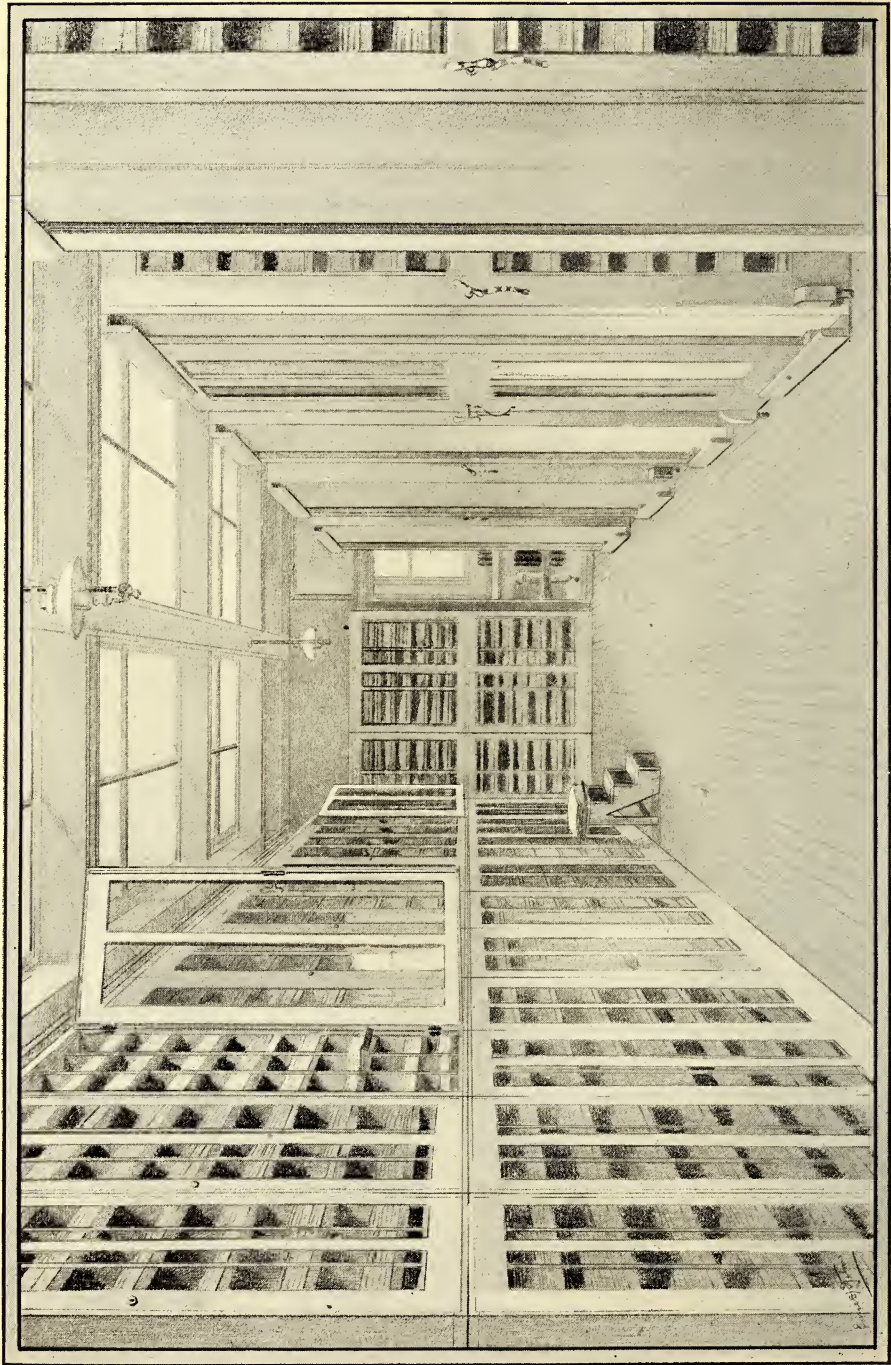
upon the Monday following. At such meetings the corporate members shall transact such business as may properly come before the meeting. Special meetings of the corporate members shall be called at any time by the Secretary upon written request of twenty corporate members. In such case, thirty days' notice by mail shall be given to corporate members of the time, place and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the 14th day of October, except when that day falls on a Sunday, and then upon the Monday following, and upon the last Monday of January, April and July of each year. Special meetings may be called by the President at any time upon reasonable notice by mail, and shall be called upon the written request of three Trustees. Five Trustees shall constitute a quorum, but meetings may be adjourned by any less number from day to day or to a day fixed.

ARTICLE IV.

AMENDMENTS.

SECTION I. These By-Laws may be amended at any regular meeting of the Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at the last regular meeting preceding, or shall be recommended by the Executive Committee.



ONE OF THE THREE HERBARIUM ROOMS—FIELD COLUMBIAN MUSEUM

PL. XIII. HERBARIUM ROOM.

One of the three rooms in which the herbarium of the Museum is installed. This room contains 26 of the old style swinging-door cases, and 5 pairs of the new disappearing-door cases. The room communicates with two large side-lighted rooms also devoted to herbarium installation.

HONORARY MEMBERS.

EDWARD E. AYER

HARLOW N. HIGINBOTHAM

CHARLES B. CORY

DECEASED.

MARY D. STURGES

PATRONS.

ALLISON V. ARMOUR

FREDERICK W. PUTNAM

WILLIAM I. BUCHANAN

FREDERICK J. V. SKIFF

WILLARD A. SMITH

CORPORATE MEMBERS.

ADAMS, GEORGE E.	JONES, ARTHUR B.
ALDIS, OWEN F.	KEITH, E. G.
ARMOUR, ALLISON V.	KOHLSTAAT, HERMAN H.
AYER, EDWARD E.	
BAKER, WILLIAM T.	LATHROP, BRYAN
BARTLETT, A. C.	LEITER, L. Z.
BLACK, JOHN C.	
BLAIR, WATSON F.	McCAGG, E. B.
BLATCHFORD, ELIPHALET W.	McCONNELL, JOHN
BUCHANAN, W. I.	McCORMICK, CYRUS H.
BUCKINGHAM, EBENEZER	McNALLY, ANDREW
BURNHAM, DANIEL H.	MANIERRE, GEORGE
BUTLER, EDWARD B.	MITCHELL, JOHN J.
CHALMERS, W. J.	PATTERSON, ROBERT W.
CHATFIELD-TAYLOR, H. C.	PEARCE, J. IRVING
CLARK, JOHN M.	PECK, FERD. W.
CURTIS, WILLIAM E.	PETERSON, P. S.
	PUTNAM, FREDERICK W.
EASTMAN, SYDNEY C.	
ELLSWORTH, JAMES W.	REAM, NORMAN B.
	RYERSON, MARTIN A.
FITZSIMONS, CHARLES	
	SCHNEIDER, GEORGE
GAGE, LYMAN J.	SKIFF, F. J. V.
GETTY, HENRY H.	SMITH, BYRON L.
GUNSAULUS, FRANK W.	SMITH, WILLARD A.
GUNTHER, C. F.	SPRAGUE, A. A.
	STOCKTON, JOSEPH
HARPER, WILLIAM R.	STONE, MELVILLE E.
HATCH, GAZEL F.	
HEAD, FRANKLIN H.	WALKER, EDWIN
HIGINBOTHAM, H. N.	WALSH, JOHN R.
HUTCHINSON, CHARLES L.	

 DECEASED.

ARMOUR, PHILIP D.	McCLURG, A. C.
BISSELL, GEORGE F.	PETERSON, ANDREW
CRAWFORD, ANDREW	PULLMAN, GEORGE M.
DAVIS, GEORGE R.	SCOTT, JAMES W.
HALE, WILLIAM E.	WALLER, R. A.
JACKSON, HUNTINGTON W.	WILLIAMS, NORMAN

LIFE MEMBERS.

By the payment of five hundred dollars.

- | | |
|-------------------------|-------------------------|
| ADAMS, GEORGE E. | LAWSON, VICTOR F. |
| ALDIS, OWEN F. | |
| | McCORMICK, MRS. |
| BLAIR, CHAUNCEY J. | McCORMICK, CYRUS H. |
| BARTLETT, A. C. | McCORMICK, HAROLD F. |
| BARRETT, MRS. A. D. | McNALLY, ANDREW |
| BARRETT, ROBERT L. | MACKAY, JOHN W. |
| BARRETT, S. E. | MacVEAGH, FRANKLIN |
| BOOTH, W. VERNON | MITCHELL, J. J. |
| BURNHAM, D. H. | MURDOCH, THOMAS |
| BUTLER, EDWARD B. | |
| | NEWELL, A. B. |
| CARTER, JAMES S. | |
| CARTON, L. A. | ORR, ROBERT M. |
| CHALMERS, WILLIAM J. | |
| COOPER, FRANK H. | PEARSONS, D. K. |
| CRANE, R. T. | PIKE, EUGENE S. |
| | PORTER, GEORGE T. |
| DEERING, CHARLES | PORTER, H. H. |
| DRAKE, TRACY C. | PORTER, Jr., H. H. |
| | |
| FARWELL, WALTER | REAM, MRS. CAROLINE P. |
| FAY, C. N. | REAM, NORMAN B. |
| FIELD, STANLEY | REVELL, ALEX. H. |
| FULLER, WILLIAM A. | RUSSELL, EDMUND A. |
| | RYERSON, MRS. CARRIE H. |
| GARTZ, A. F. | RYERSON, MARTIN A. |
| GRISCOM, CLEMENT A. | |
| GROMMES, JOHN B. | SCHLESINGER, LEOPOLD |
| | SCHNEIDER, GEORGE |
| HAMILL, ERNEST A. | SCOTT, ROBERT S. |
| HEALY, P. J. | SEAVERNS, GEORGE A. |
| HIBBARD, W. G. | SHERMAN, JOHN B. |
| HILL, LOUIS W. | SINGER, C. G. |
| HUGHITT, MARVIN | SMITH, BYRON L. |
| HUTCHINSON, C. L. | SMITH, ORSON |
| | SPRAGUE, A. A. |
| INGALLS, M. E. [PORTER | SPRAGUE, OTHO S. A. |
| ISHAM, MRS. KATHERINE | STUDEBAKER, CLEM. |
| | STURGES, GEORGE |
| JOHNSON, M.D., FRANK S. | |
| JOHNSON, MRS. ELIZABETH | THORNE, GEORGE R. |
| JONES, ARTHUR B. [AYER | TREE, LAMBERT |
| | |
| KEITH, ELBRIDGE G. | WELLING, JOHN C. |
| KIMBALL, W. W. | WELLS, M. D. |
| KING, FRANCIS | WILLARD, ALONZO J. |
| KING, JAMES C. | WOLFF, LUDWIG |
| KIRK, WALTER RADCLIFFE | |

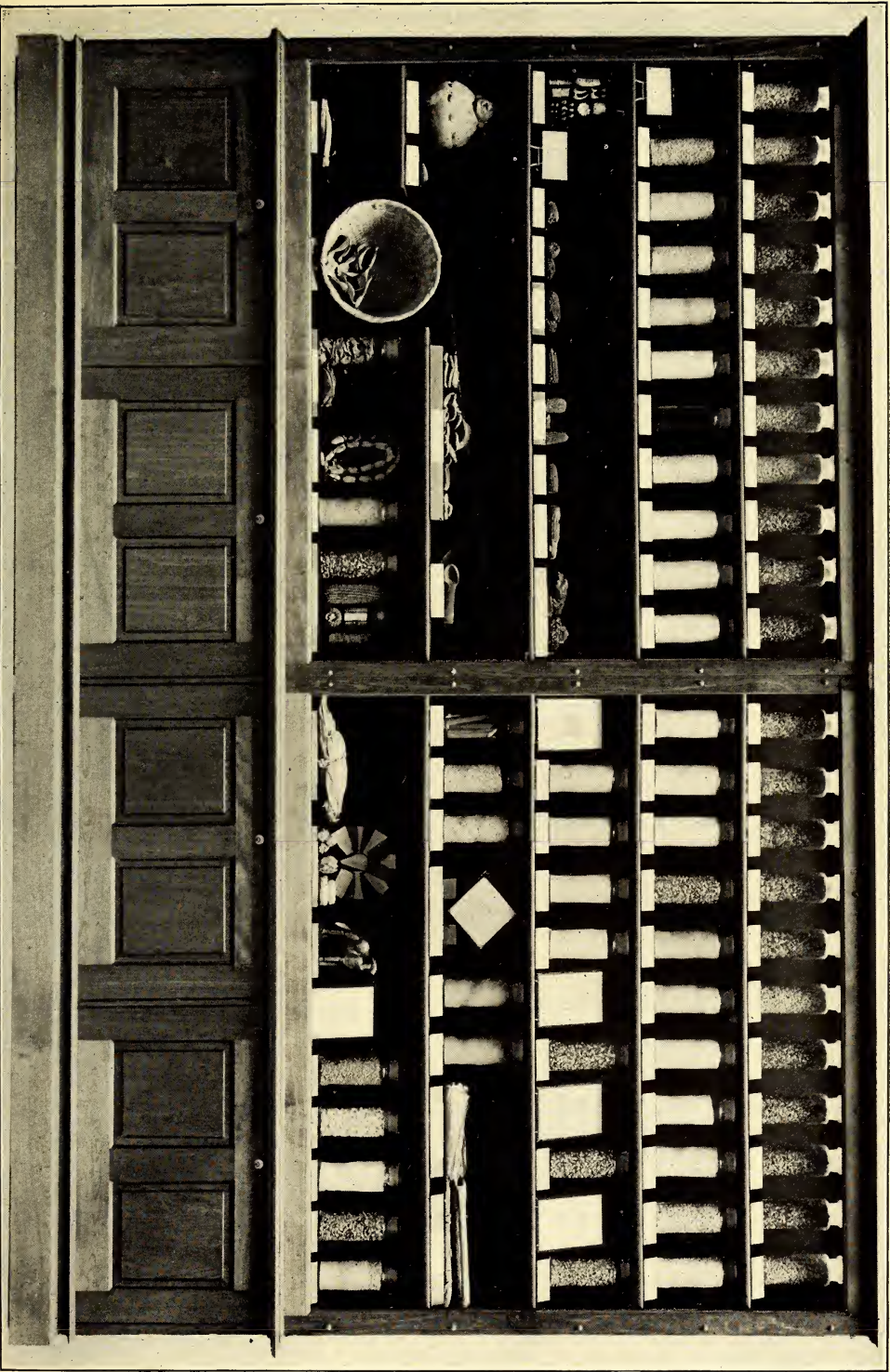
ANNUAL MEMBERS.

- ADAMS, CYRUS H.
 ADAMS, MILWARD
 ALLERTON, ROBERT H.
 ALLERTON, MRS. S. W.
 AMBERG, WILLIAM A.
 ARMOUR, GEORGE A.
 BAILEY, EDWARD P.
 BAKER, SAMUEL
 BANGA, DR. HENRY
 BARNES, CHARLES J.
 BARNHART, ARTHUR M.
 BARRELL, JAMES
 BATCHELLER, W.
 BEAUVAIS, E. A.
 BECKER, A. G.
 BEIDLER, FRANCIS
 BELDEN, J. S.
 BILLINGS, C. K. G.
 BILLINGS, DR. FRANK
 BIRKHOFF, GEORGE, JR.
 BLACKMAN, W. L.
 BLAIR, HENRY A.
 BLAINE, MRS. EMMONS
 BOAL, CHARLES T.
 BONNEY, CHARLES C.
 BOOTH, A.
 BOTSFORD, HENRY
 BOUTON, C. B.
 BOUTON, N. S.
 BRADWELL, JAMES B.
 BRAUN, GEORGE P.
 BREGA, CHARLES W.
 BREMNER, DAVID F.
 BROOKS, JAMES C.
 BROWN, GEORGE F.
 BROWN, WILLIAM L.
 BURLEY, CLARENCE A.
 BURLEY, FRANK E.
 CABLE, R. R.
 CARPENTER, A. A.
 CARPENTER, MYRON J.
 CHANDLER, FRANK R.
 CHAPPELL, C. H.
 CLARK, JONATHAN
 COMSTOCK, WILLIAM C.
 CONKLING, ALLEN
 CONOVER, CHARLES H.
 COOLBAUGH, MRS. ADDIE R.
 COOLIDGE, CHARLES
 COONLEY-WARD, MRS. L. A.
 CORWITH, CHARLES R.
 COWAN, W. P.
 COX, ALFRED J.
 CRANE, CHARLES R.
 CUDAHY, JOHN
 CULVER, MRS. CHARLES E.
 CUMMINGS, E. A.
 CURTIS, D. H.
 DAL, DR. JOHN W.
 DAY, A. M.
 DAY, CHAPIN A.
 DEAN, THAD.
 DEERING, JAMES
 DEERING, WILLIAM
 DELANO, F. A.
 DEMMLER, K.
 DILLMAN, L. M.
 DODGE, G. E. P.
 DUMMER, W. F.
 DUNHAM, MISS M. V.
 DURAND, ELLIOT
 DWIGHT, JOHN H.
 EDWARDS, J. A.
 EDMUNDS, ABRAHAM
 EISENDRATH, W. N.
 EMMERICH, CHARLES
 FAIR, R. M.
 FARNSWORTH, GEORGE
 FISCHER, FREDERICK
 FLANNERY, JOHN L.
 FORSYTH, ROBERT
 FRANK, HENRY L.
 FRANK, MAX
 FRASHER, JOHN E. L.
 FREYTAG, MORITZ
 FULLER, O. F.
 FURST, CONRAD
 GATES, J. W.
 GAYLORD, FREDERICK
 GIFFORD, C. E.
 GIFFORD, I. CUSHMAN
 GLESSNER, J. J.
 GOODRICH, A. W.

WYTHICAL 27-5000

PL. XIV. TYPE OF WALL CASES, DEPARTMENT OF BOTANY.

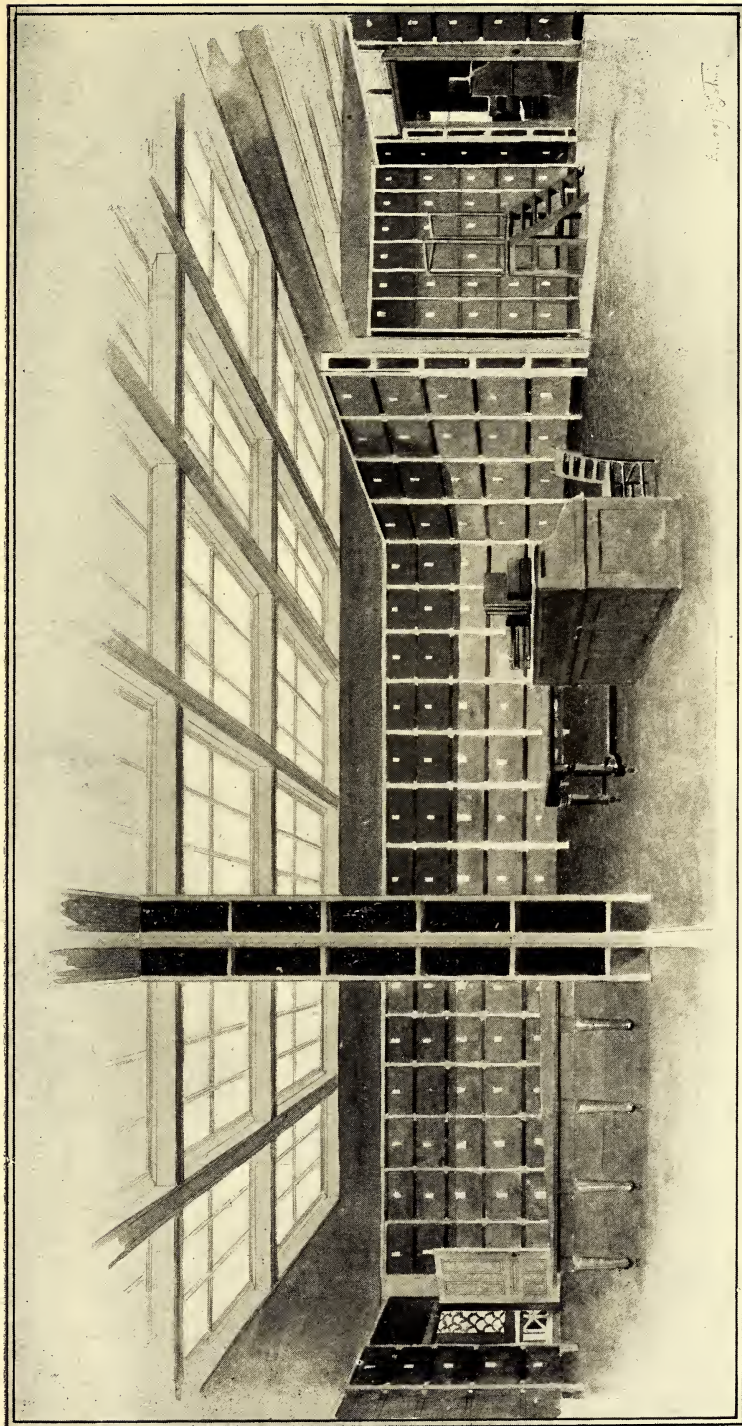
The wall cases in the Department of Botany are constructed of red birch, finished in the natural. They consist of two parts: the upper or display portion, 12 feet by 5 feet 5 inches, 9 inches deep inside; and the base or storage portion, 21.5 inches high and 12 inches deep. The sashes, carrying heavy plate glass, are screwed into place over a beading. In the storage base are kept duplicate specimens of the contents of each case for reference and handling.



TYPE OF WALL CASES. DEPARTMENT OF BOTANY.—FIELD COLUMBIAN MUSEUM.

GORDON, EDWARD K.
GRAHAM, E. R.
GREEN, E. H. R.
GREY, CHARLES F.
GREY, WILLIAM L.
GRIFFIN, T. A.
GUION, GEORGE MURRAY
GURLEY, W. W.
HAMILTON, I. K.
HANECY, ELBRIDGE
HANSON, DAVID N.
HARDING, AMOS J.
HARRIS, GEORGE B.
HARRIS, JOHN F.
HARRIS, N. W.
HASKELL, FREDERICK T.
HEATH, ERNEST W.
HELMER, FRANK A.
HERTLE, LOUIS
HINES, EDWARD
HITCHCOCK, R. M.
HOLDOM, JESSE
HOLT, GEORGE H.
HOPKINS, JOHN P.
HORNER, ISAAC
HOSKINS, WILLIAM
HOUGHTELING, JAMES L.
HUTCHINSON, MRS. B. P.
INGALLS, E. FLETCHER
INSULL, SAMUEL
ISHAM, EDWARD S.
JEFFERY, THOMAS B.
JENKINS, GEORGE H.
JONES, J. S.
KAMMERER, F. G.
KEEFER, LOUIS
KEENE, JOSEPH
KEEP, ALBERT
KEITH, W. SCOTT
KELLEY, WILLIAM E.
KENT, WILLIAM
KIMBALL, EUGENE S.
KIMBALL, MRS. MARK
KIRCHBERGER, S. E.
KOEHLER, THOMAS N.
LAFLIN, ALBERT S.
LAFLIN, GEORGE H.
LAMB, FRANK H.
LAWSON, VICTOR F.
LAY, A. TRACY
LEE, WALTER H.
LEFENS, THIES J.
LEIGH, EDWARD B.
LEITER, JOSEPH
LINCOLN, ROBERT T.
LINN, W. R.
LLOYD, EVAN
LOEWENTHAL, B.
LOGAN, F. G.
LOMBARD, JOSIAH L.
LORD, J. B.
LOWDEN, FRANK O.
LOWTHER, THOMAS D.
LYON, THOMAS R.
LYTTON, HENRY C.
McCREA, W. S.
McGUIRE, REV. H.
McLENNAN, J. A.
McWILLIAMS, LAFAYETTE
McFARLAND, HENRY J.
MAGEE, HENRY W.
MANSON, WILLIAM
MANSURE, E. L.
MARKWALD, LIEUT. ERNST
MARSHALL, GEORGE E.
MAY, FRANK E.
MAYER, DAVID
MAYER, LEVY
MEAD, W. L.
MERRICK, L. C.
MERRYWEATHER, GEORGE
MEYER, MRS. M. A.
MILLER, CHARLES P.
MILLER, JOHN S.
MILLER, THOMAS
MIXER, C. H. S.
MOORE, L. T.
MOORE, N. G.
MORRIS, EDWARD
MORRIS, IRA
MORRIS, NELSON
MORRISON, JAS. W.
MULLIKEN, A. H.
MULLIKEN, CLARENCE H.
NATHAN, ADOLPH
NOLAN, JOHN H.
NORTON, O. W.
NOYES, LA VERNE W.
OEHNE, THEODORE

- ORB, JOHN A.
 ORTSEIFEN, ADAM
 OSBORN, HENRY A.
 PALMER, MILTON J.
 PALMER, PERCIVAL B.
 PARKER, FRANCIS W.
 PATTERSON, W. R.
 PEARSON, EUGENE H.
 PECK, CLARENCE I.
 PECK, GEORGE R.
 PERRY, LEWIS S.
 PETERS, HOMER H.
 PETERSEN, GEORGE L.
 PETERSON, WM. A.
 PIETSCH, C. F.
 PINKERTON, W. A.
 POND, IRVING K.
 POPE, MRS. CHARLES B.
 PORTER, MRS. JULIA F.
 PORTER, WASHINGTON
 RABER, P. W.
 RANDALL, THOMAS D.
 RAYNER, JAMES B.
 REHM, JACOB
 REID, W. H.
 REW, HENRY C.
 RIPLEY, E. P.
 ROBINSON, J. K.
 ROSENBAUM, JOSEPH
 ROSENFELD, MAURICE
 ROSENTHAL, OSCAR
 RUMSEY, GEORGE D.
 RUNNELLS, J. S.
 RYERSON, MRS. MARTIN A.
 SCHAFFNER, JOSEPH
 SCHMIDT, DR. O. L.
 SCHMITT, ANTHONY
 SCHWARTZ, G. A.
 SEARS, JOSEPH
 SEIPP, MRS. C.
 SEIPP, W. C.
 SELFRIDGE, HARRY G.
 SELLERS, FRANK H.
 SELZ, MORRIS
 SHEDD, JOHN G.
 SHERWOOD, H. M.
 SHIPMAN, DANIEL B.
 SHORTALL, JOHN G.
 SKINNER, THE MISSES
 SMITH, F. B.
 SMITH, JOHN C.
 SMITH, O. C.
 SNOW, MISS HELEN E.
 SOPER, JAMES P.
 SOUTHWELL, H. E.
 SPENCE, MRS. ELIZABETH E.
 SPOOR, J. A.
 STANLEY, FRANK W.
 STEELE, HENRY B.
 STILES, JOSIAH
 STOCKTON, JOHN T.
 STRAUS, SIMON
 STUART, ROBERT
 SWIFT, G. F.
 TEMPLETON, THOMAS
 TILTON, MRS. L. J.
 TOBEY, FRANK B.
 TRIPP, C. E.
 TRUDE, A. S.
 TRUMBULL, PERRY
 TURNER, E. A.
 TYSON, RUSSELL
 UHLEIN, EDWARD G.
 UNZICKER, OTTO
 VIERLING, ROBERT
 WACKER, CHARLES H.
 WALKER, GEORGE C.
 WALKER, JAMES R.
 WALKER, WILLIAM B.
 WALLER, EDWARD C.
 WARNER, EZRA J.
 WEBSTER, GEORGE H.
 WELLS, B. D.
 WHEELER, CHARLES W.
 WHITE, A. STAMFORD
 WHITEHEAD, W. M.
 WHITEHOUSE, FRANCIS M.
 WICKES, T. H.
 WILLIAMS, SIMEON B.
 WILLING, MRS. HENRY J.
 WILSON, E. C.
 WILSON, M. H.
 WING, DR. ELBERT
 WINK, HENRY
 WOLF, FRED W.
 WOOD, S. E.
 WOODCOCK, LINDSAY T.
 WOOSTER, CLARENCE K.
 YERKES, CHARLES T.
 DECEASED.
 JANES, JOHN J.
 MOORE, SILAS M.



OFFICE AND LABORATORY OF CURATOR OF THE DEPARTMENT OF ZOOLOGY—FIELD COLUMBIAN MUSEUM.



THE LATE HUNTINGTON W. JACKSON,
An Incorporator of the Museum.

FIELD COLUMBIAN MUSEUM

PUBLICATION 70.

REPORT SERIES.

VOL. II, No. 2.

ANNUAL REPORT OF THE
DIRECTOR

TO THE
BOARD OF TRUSTEES

FOR THE YEAR 1901-1902.



CHICAGO, U. S. A.

October, 1902.

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THE BOARD OF TRUSTEES.

GEORGE E. ADAMS.

OWEN F. ALDIS.

EDWARD E. AYER.

WATSON F. BLAIR.

WILLIAM J. CHALMERS.

MARSHALL FIELD, JR.

HARLOW N. HIGINBOTHAM.

ARTHUR B. JONES.

GEORGE MANIERRE.

CYRUS H. McCORMICK.

NORMAN B. REAM.

MARTIN A. RYERSON.

EDWIN WALKER.

DECEASED.

NORMAN WILLIAMS.

GEORGE R. DAVIS.

HUNTINGTON W. JACKSON.

OFFICERS.

HARLOW N. HIGINBOTHAM, *President.*

MARTIN A. RYERSON, *First Vice-President.*

NORMAN B. REAM, *Second Vice-President.*

HARLOW N. HIGINBOTHAM, *Chairman Executive Committee.*

GEORGE MANIERRE, *Secretary.*

BYRON L. SMITH, *Treasurer.*

COMMITTEES.

EXECUTIVE COMMITTEE.

HARLOW N. HIGINBOTHAM, *Chairman Ex-Officio.*

EDWARD E. AYER.

NORMAN B. REAM.

OWEN F. ALDIS.

MARTIN A. RYERSON.

FINANCE COMMITTEE.

MARTIN A. RYERSON.

WATSON F. BLAIR.

MARSHALL FIELD, JR.

COMMITTEE ON BUILDING.

GEORGE E. ADAMS.

WILLIAM J. CHALMERS.

CYRUS H. MCCORMICK.

OWEN F. ALDIS.

AUDITING COMMITTEE.

GEORGE MANIERRE.

ARTHUR B. JONES.

STAFF OF THE MUSEUM.

DIRECTOR.

FREDERICK J. V. SKIFF.

DEPARTMENT OF ANTHROPOLOGY.

GEORGE A. DORSEY, *Curator*.

S. C. SIMMS, *Assistant Curator Division of Ethnology*.

CHARLES L. OWEN, *Assistant Curator Division of Archæology*.

DEPARTMENT OF BOTANY.

CHARLES F. MILLSPAUGH, *Curator*.

DEPARTMENT OF GEOLOGY.

OLIVER C. FARRINGTON, *Curator*. H. W. NICHOLS, *Assistant Curator*.

S. W. WILLISTON, *Associate Curator of Paleontology*.

ELMER S. RIGGS, *Assistant Curator Paleontology*.

DEPARTMENT OF ZOOLOGY, EXCEPT ORNITHOLOGY.

D. G. ELLIOT, *Curator*. SETH E. MEEK, *Assistant Curator*.

WILLIAM J. GERHARD, *Assistant Curator Division of Entomology*.

DEPARTMENT OF ORNITHOLOGY.

CHARLES B. CORY, *Curator*.

RECORDER.

D. C. DAVIES.

THE LIBRARY.

ELSIE LIPPINCOTT, *Librarian*.

TAXIDERMIST - IN - CHIEF.

CARL E. AKELEY.

ANNUAL REPORT OF THE DIRECTOR.

1901-1902.

To the Trustees of the Field Columbian Museum:

I have the honor to present the Report of the operations of the Museum during the year closing September 30, 1902:

INCOME AND MAINTENANCE.—In executing the plans initiating with the Special Committee on new work, approved by the Executive Committee, the cost of new installation in the Museum for the past year has approximated \$50,000.00, the chief item being \$26,000.00 for new cases. This sum has been about equally divided, not in amount but in importance of results, between the four Departments of the institution.

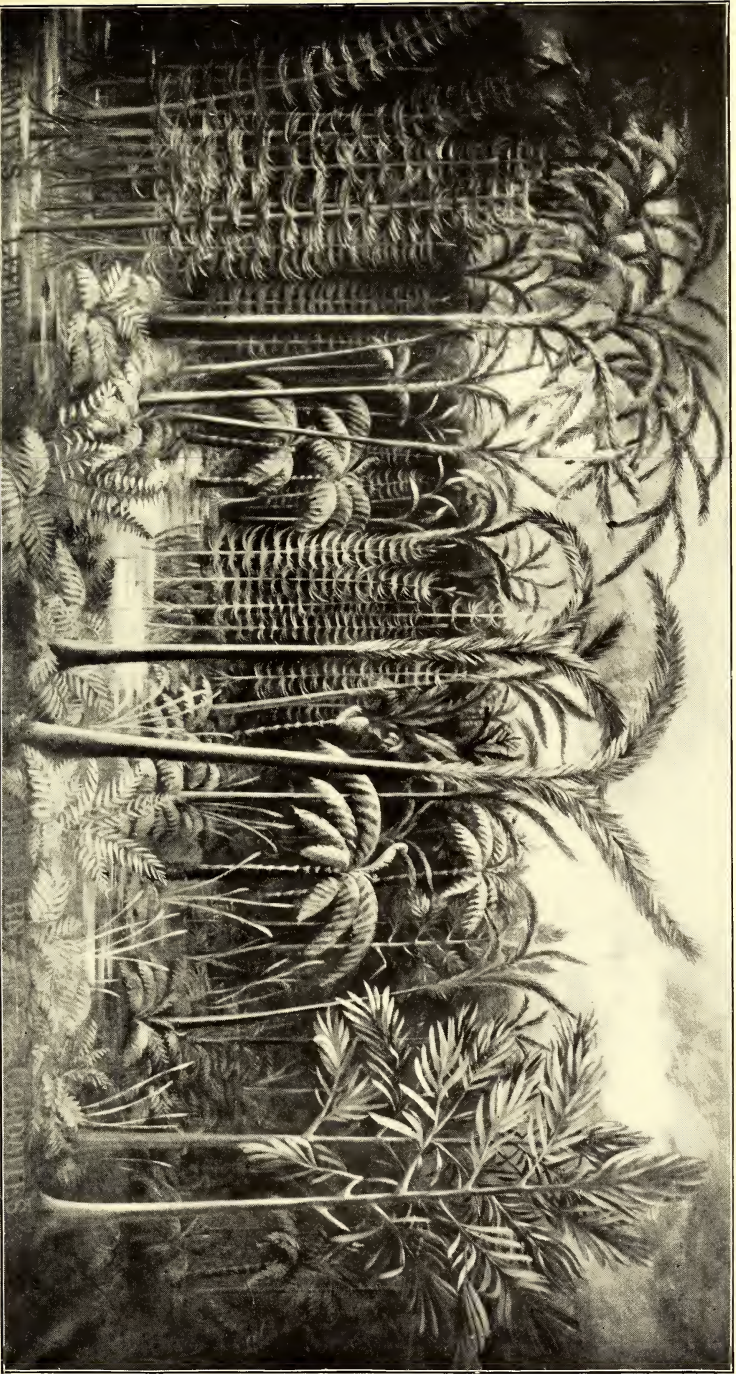
While the repairs and physical maintenance of the building by the exercise of the greatest economy cost \$2,000.00 less than the provision of the budget for these items, this should not be accepted as an indication that the building is requiring less attention. The fact is, on the contrary, that the structure has about reached the limits of repair, using that word in its literal sense. That is to say, any further expenditure in what might be called the maintenance of the building would be in the line of new construction. This is especially true of the exterior of the building, which, in spite of the most persistent and ingenious efforts to conceal the real condition, is gradually falling to pieces. The building is safe—in fact, much safer than it was when it was taken possession of by the Museum, and I have no reason to believe that disintegration threatens the security of the building as a structure. But I do feel compelled to direct the attention of the Board of Trustees to the necessity which exists, in my opinion, for seriously considering at an early date the welfare of the material whose intrinsic value must be over \$3,000,000.00 and whose educational value is incomputable.

STAFF OF THE MUSEUM.—The scientific staff of the Museum has been signally augmented in its importance by the addition of Dr. S. W. Williston, the well-known paleontologist, whose services have been secured under an arrangement with the University of Chicago.

LECTURE COURSES.—The lecture courses have been unusually interesting and well attended. They have been participated in by distinguished scholars and students in the various branches of the natural sciences, and I desire to make grateful acknowledgment of the generosity and good will this participation has manifested on their part toward the Museum and its mission.

Following is the Sixteenth Lecture Course:

- Oct. 5.—“The Megalithic Monuments of Brittany” (Illustrated).
Dr. George A. Dorsey, Curator, Department of Anthropology.
- Oct. 12.—“Through the Arizona Cañon and Yosemite to the Glaciers of Alaska” (Illustrated).
Dr. Edward Burton McDowell, Chicago.
- Oct. 19.—“The Houses and Family Life of the Natives of Sarawak, Borneo” (Illustrated).
Dr. Alfred Cort Haddon, F.R.S., F.Z.S., University of Cambridge, England.
- Oct. 26.—“The Ceremonial and Secular Dances of the Papuans” (Illustrated).
Dr. Alfred Cort Haddon, F.R.S., F.Z.S., University of Cambridge, England.
- Nov. 2.—“Economic Geology, Particularly of Michigan, in Its Relation to the Business World” (Illustrated).
Prof. Alfred C. Lane, State Geologist, Michigan.
- Nov. 9.—“Color in Nature” (Illustrated).
Prof. William H. Dudley, Platteville, Wis.
- Nov. 16.—“Mexico” (Illustrated).
Dr. S. E. Meek, Assistant Curator, Department of Zoology, Field Columbian Museum.
- Nov. 23.—“Recent Dinosaur Discoveries” (Illustrated).
Mr. Elmer S. Riggs, Assistant Curator of Paleontology, Field Columbian Museum.
- Nov. 30.—“Crystals” (Illustrated).
Prof. O. C. Farrington, Curator, Department of Geology, Field Columbian Museum.



PHOTOGRAPH BY C. H. CARPENTER.

PAINTING OF IDEAL CARBONIFEROUS LANDSCAPE—HALL 35—FIELD COLUMBIAN MUSEUM.

Following is the Seventeenth Course, delivered in March and April, 1902:

- March 1.—“The Glacial Period in North America” (Illustrated).
Prof. Rollin D. Salisbury, University of Chicago.
- March 8.—“The Sun Dance of the Cheyenne and the Arapaho” (Illustrated).
Dr. George A. Dorsey, Curator of Anthropology, Field Columbian Museum.
- March 15.—“The Northern Rocky Mountains” (Illustrated).
Prof. Stuart Weller, Assistant Professor of Paleontology, University of Chicago.
- March 22.—“Geological Field Work in the Iron and Copper Districts of the Lake Superior Region” (Illustrated).
Prof. U. S. Grant, Northwestern University, Evanston, Ill.
- March 29.—“Birds and Their Nests” (Illustrated).
Dr. James Rollin Slonaker, University of Chicago.
- April 5.—“Insects of Southern Peru and Bolivia” (Illustrated).
Mr. William J. Gerhard, Assistant Curator, Division of Entomology, Field Columbian Museum.
- April 12.—“Interpretation of Some Features of Landscape” (Illustrated).
Prof. Conway MacMillan, University of Minnesota, Minneapolis.
- April 19.—“Recent Explorations in Pre-Historic Hopi Ruins, Arizona”—Stanley McCormick Expedition (Illustrated).
Mr. C. L. Owen, Assistant Curator, Division of Archaeology, Field Columbian Museum.
- April 26.—“The Crow Indians of Montana, a Western Plains Tribe” (Illustrated).
Mr. S. C. Simms, Assistant Curator, Division of Ethnology, Field Columbian Museum.

PUBLICATIONS.—During the year just ended eight papers were issued in the regular series and several are now in course of preparation. Below will be found the titles of those issued since October 1st, 1901, with the number of pages and illustrations indicated:

Pub. 60.—Geol. Ser., Vol. 1, No. 9. “The Dinosaur Beds of the Grand River Valley of Colorado.” By Elmer S. Riggs. 20 pp., edition 1,000, illustrations 6 (5 half-tones, 1 zinc etching).

Pub. 61.—An. Ser., Vol. 3, No. 2. “The Oraibi Powamu Ceremony.” By H. R. Voth. 95 pp., edition 1,000, illustrations 39 (32 half-tones, 3 zinc etchings, 4 colored plates).

Pub. 62.—Report Ser., Vol. 2, No. 1. “Annual Report of the Director.” 80 pp., edition 2,250, illustrations 14 (half-tones).

Pub. 63.—Geol. Ser., Vol. 1, No. 10. “The Fore Leg and Pectoral Girdle of *Morosaurus*, with a Note on the Genus *Camarosaurus*.” By Elmer S. Riggs. 14 pp., edition 1,000, illustrations 5 (4 half-tones, 1 zinc etching).

Pub. 64.—Geol. Ser., Vol. 1, No. 11. “Meteorite Studies—1.” By O. C. Farrington. 45 pp., edition 1,000, illustrations 9 (8 half-tones, 1 zinc etching).

Pub. 65.—Zool. Ser., Vol. 3, No. 6. “A Contribution to the Ichthyology of Mexico.” By S. E. Meek. 65 pp., edition 1,000, illustrations 30 (half-tones).

Pub. 66.—An. Ser., Vol. 3, No. 3. “The Mishongnovi Ceremonies of the Snake and Antelope Fraternities.” By G. A. Dorsey and H. R. Voth. 100 pp., edition 1,000, 124 illustrations (117 half-tones, 7 colored plates).

Pub. 67.—Zool. Ser., Vol. 3, No. 7. “Notes on a Collection of Cold-Blooded Vertebrates from Ontario.” By S. E. Meek and H. W. Clark. 12 pp., edition 1,000, no illustrations.

The distribution to foreign countries is still continued through the Bureau of International Exchanges of the Smithsonian Institution.

The following table shows the number and classes of foreign and domestic addresses at present included in the mailing list:

OFFICIAL :

Trustees,	13
Staff,	10
Corporate Members,	3
Honorary Members,	3
Annual Members,	291

RECEIVED PUBLICATIONS IN ALL DEPARTMENTS :

	Domestic.	Foreign.
Individuals,	10	10
Universities, Schools and Colleges,	58	37
Museums and Gardens,	6	38
Academies and Institutes,	31	12
Societies,	24	49
Libraries,	60	27
Government and State Departments,	11	9
Journals,	11	2

RECEIVED PUBLICATIONS IN ONE OR MORE DEPARTMENTS :

	DOMESTIC.						
	*A.	†B.	G.	†H.	†O.	Z.	†T.
Individuals,	79	54	110	5	1	39	..
Universities, Schools and Colleges,	3	28	11	7	1	8	1
Museums and Gardens,	10	8	8	9	..	7	..
Academies and Institutes,	4	2	3	7	..	1	2
Societies,	11	13	10	13	5	9	4
Libraries, . . . . .	..	2	1	18	..	1	..
Journals,	12	9	6	..	3	4	2
Government and State Departments,	1	7	18	4	..	13	..

	FOREIGN.						
	*A.	†B.	G.	†H.	†O.	†T.	Z.
Individuals,	54	27	47	..	4	..	19
Universities, Schools and Colleges,	1	..	5	..	1	..	9
Museums and Gardens,	10	5	5	..	1	..	5
Academies and Institutes,	3	..	9	..	1	..	3
Societies,	12	12	19	..	3	..	25
Libraries,	1	..	..	..	..	..	..
Journals,	26	16	19	..	20	..	19
Government and State Departments, . . . . .	..	5	15	..	..	..	8

THE LIBRARY.—During the past year there have been added to the library 921 bound volumes and 944 pamphlets, making a total of

*A., B., G., H., O., T. and Z. denote Anthropology, Botany, Geology, History, Ornithology, Transportation and Zoology.

† Nothing issued in departments indicated by dagger during year ending September 30, 1902.

1,865 titles. This compares very favorably with the growth of the library for the preceding years. Donations and exchanges have been received from 105 individuals and 486 societies and incorporated institutions, 105 of which are foreign. Eighty-seven books and nine pamphlets were obtained by purchase, making the total number of books and pamphlets now in the library 30,037, distributed as follows:

	Books.	Pamphlets.
General Library,	10,032	13,670
Department of Anthropology,	308	95
Department of Botany,	527	249
Department of Geology,	1,642	2,827
Department of Ornithology,	378	....
Department of Zoology,	309	....

The number of periodicals currently received was 154; by purchase 65, by exchange 89.

It is particularly desired that acknowledgment be made to the Agricultural Experiment Stations of the United States for many back numbers sent to complete the files of its bulletins in the Museum Library.

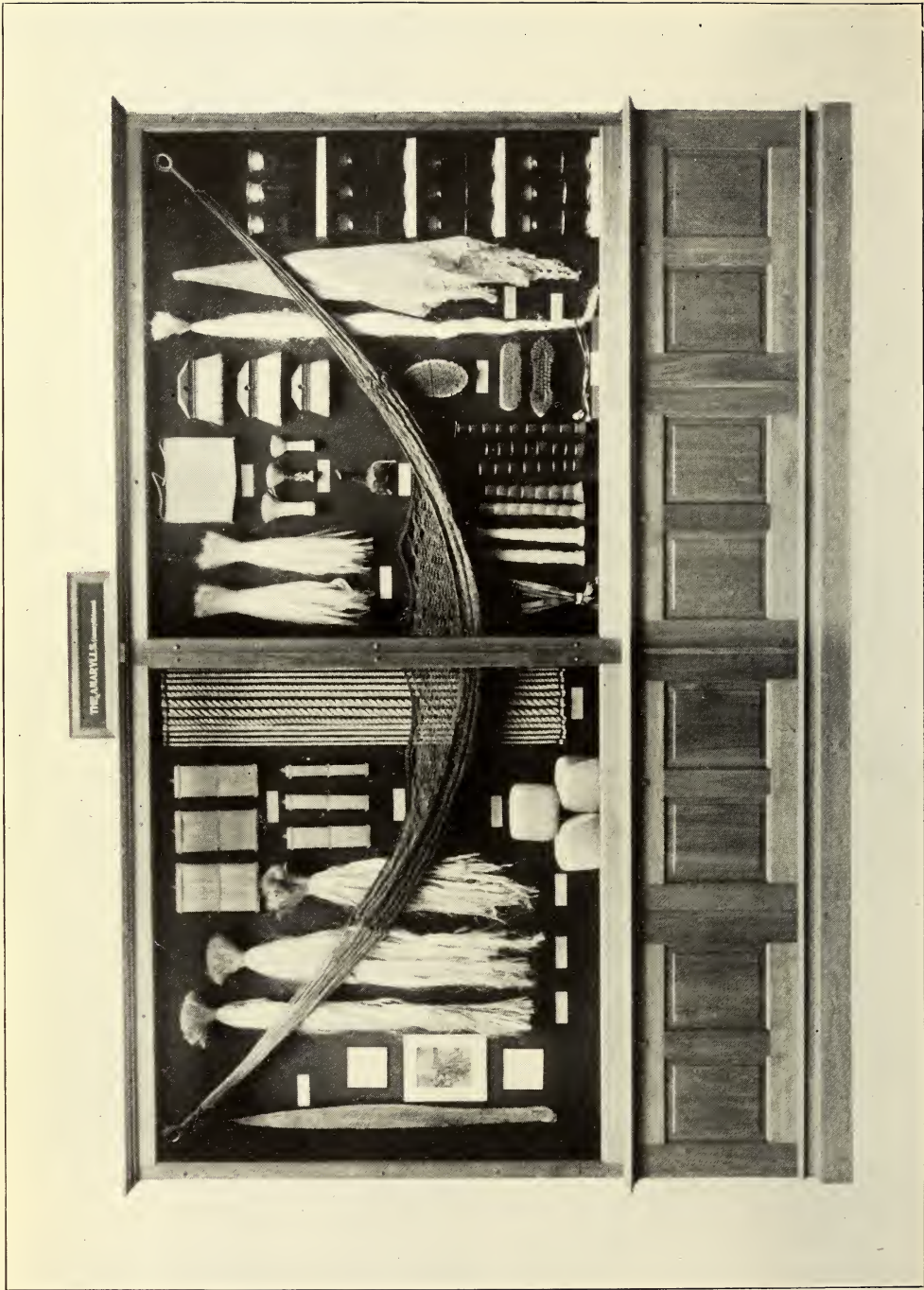
The physical condition of the library has been much improved during the year; a new double stack for books has been installed in the general library and several minor changes made in the reading room and office to expedite the work of the staff as well as improve the general appearance of the rooms. Four hundred and forty-nine books have been sent to the binder, 302 of which have been returned and placed on the shelves. It was mentioned in the last Report that several books and pamphlets were missing. Careful search has resulted in the restoration of all those that were missing with the exception of one book and eight pamphlets. This is a satisfactory showing when it is considered that this was the first inventory taken since the opening of the library. The most important work done during the year, aside from the regular routine duties, was on the shelf list, subject and author catalogues. Over 2,400 new cards have been written, and considerably over 10,000 cards have been revised and rewritten. Eight installments of the John Crerar duplicate catalogue and 242 index cards from the United States Agricultural Department have been received and distributed. Acknowledgment should be made of the courtesies extended the library by the Chicago Public Library, the John Crerar Library and the University of Chicago Library.

DEPARTMENTAL INVENTORYING, CATALOGUING AND LABELING.—All specimens received by the Department of Geology have been numbered and catalogued as received, and all descriptive data regarding them filed. The Curator of this department reports steady and notable progress in labeling, both new specimens and in replacing old written labels with printed ones. Over 700 labels were provided for the collection of gold and silver ores, the data being obtained by a careful study of each specimen so that a statement of the minerals it contained might be made upon the label. Each label was made of a size to correspond with that of the front of the block upon which the specimen was mounted. The systematic rock collection to the number of 1,500 specimens was supplied throughout with printed, in place of written labels. The paleontological collection has received labels for the larger part of such specimens as were mounted upon tablets, 2,200 having been made. Sixty-five case labels have also been prepared and about 600 miscellaneous ones.

The question of properly labeling the economic collections in the Department of Botany has occupied much thought during the past year. Experiments have been made which have led through the following series of considerations, to a final unification of the labels throughout this department. In referring to these experiments Mr. Millspaugh, head of the department, says: "From observation at various times of the movements of people who were examining the collections, it would seem that the first impulse covering the majority of museum visitors is that of curiosity, the second interest and the third a desire for education. Premising the truth of these conclusions, it was decided that the installation of a case should be such as to excite sufficient curiosity in the people who approach it as to attract their attention to it as a whole. The principles involved in such installations are, as I take it, a neat and well ordered arrangement of the specimens not detracted from by strongly contrasting, obtrusive, sharply defined label cards, scattered about in a confusing, disorderly manner. Next, the individual specimens composing the elements of the complete installation should be rendered as attractive as possible without materially affecting their individual character and natural sequence, in order that, having been attracted by the whole, the observer may be interested in some one or all of the specimens exhibited therein. It is now for the first time important that the labels should become apparent to the eye as an integral part of the specimens, and that they should be of such character as to invite reading; plainly typed and condensed; comprehensible to the average reader rather than abstrusely scientific; short, pithy and direct."

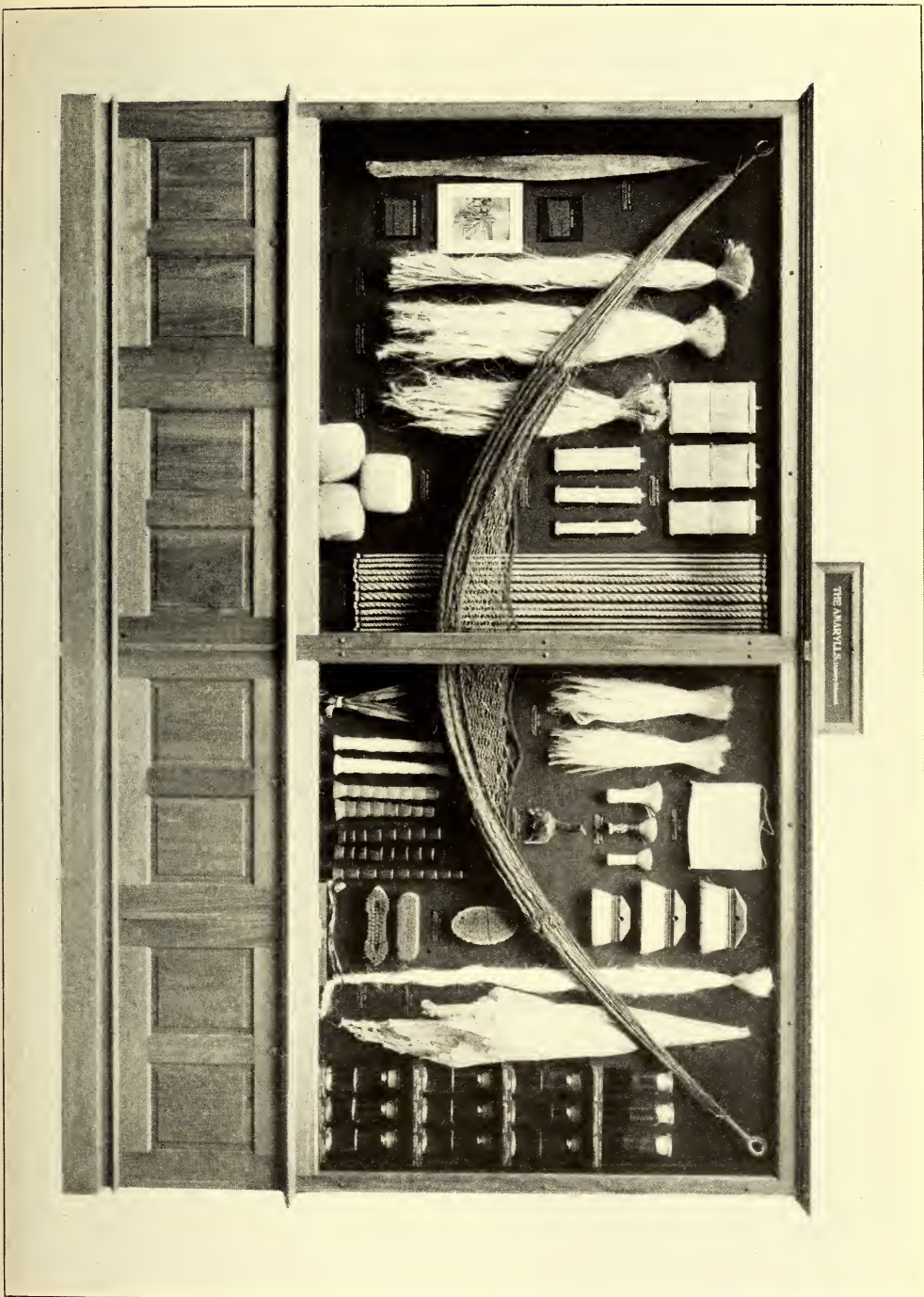
Having arrived at these conclusions and noting that installations as yet unlabeled have proven to be more attractive than those rendered distracting by too evident labels, it was decided that the best background to form a general setting for the contents of a case should be dead black, and the label card be the same, typed in some ink just off the strong contrast that white would make. This ink proved to be aluminum. Plate XIX shows the result in a case devoted to the Amarylls. This case, at a distance of 10 feet, appears to be unlabeled, while in fact it contains over thirty cards. Above the photograph at the left of the case is a 6 in. square label describing the Agaves, below it is another of the same size with a full description of Sisal Hemp, the specimens of which, each with its $4\frac{1}{2}$ in. label, occupy this half of the case. Ixtle fiber and its like sized labels in series occupies the left two-thirds of the right side of the case while the Century and Pulque plants fully labeled, complete the installation. Plate XVIII illustrates the same case and installation using the yellow or buff label card. The labels as now adopted are, as previously stated, of dead-black card printed in aluminum ink, and comprise four sizes only: a "case label," placed outside and above each case announcing the systematic order to which the contents belong; a "generic label," describing the order and its general characters; a "sub-generic label," relating in general, when necessary, to a series of related specimens or to a process illustrated by successive elements; and a "specific label," describing each specimen as an individual. Uniformity without monotony is the key-note aimed at throughout the Department, uniformity not only in the cases themselves, but also in the specimen blocks, containers, framings and labels.

In the Department of Anthropology not only has the work of cataloguing and inventorying kept up with the incoming material, but three unusually large collections have been described. Mr. J. W. Hudson, on returning from expedition late in 1901, began at once the cataloguing and preparing for exhibition of extensive collections made by him in California, as also did Assistant Curator Owen on his return from Tusayan, on the various collections, chiefly archæological, which had been secured through the generosity of Mr. Stanley McCormick. This latter accession comprised over 8,000 specimens and the necessary work of preparing and properly cataloguing such an extensive collection has consumed the larger portion of Mr. Owen's time. In accordance with the policy inaugurated three years ago the work of overhauling the entire Department has been carried on and as a result all of the exhibition material formerly occupying Hall 4 and including collections from the various Islands



PHOTOGRAPH BY C. H. CARPENTEN.

A CASE OF OBJECTS ILLUSTRATING THE UTILIZATION OF PLANTS OF THE AMARYLL GROUP.



THE SPEARS AND BASKETS ON THE LEFT ARE WITH THE AMYTHS LABEL CARDS.

of the Pacific have been thoroughly examined and compared with the collector's original list and are now in satisfactory condition. The immense amount of labor involved in this cataloguing has left but little time for the preparation of printed labels, but all newly acquired material placed upon exhibition has at least been temporarily labeled.

It is highly gratifying to be able to report that the Department of Ornithology has completed the inventory of the study collection which approximates 27,000 specimens. A card catalogue has been prepared showing the number of specimens in each species, from whence obtained, the sex, month and locality in which they were taken and the case and tray in which they may be found. Five hundred and eighty-four specimens, a part of the donation of the United States of Colombia in 1893, have been identified, properly labeled, and entered on the accession records. The bird skins obtained by Mr. Breninger in Mexico to the number of 1,500 have also been labeled, accessioned and incorporated in the study collection.

In the Department of Zoology the inventory books have been kept up and the records are in a satisfactory condition. Over 4,500 printed labels, describing the shell collection, have been substituted for the written ones and about 500 new mounts have been made. The collections of protozoa, sponges, corals and star-fishes have also been re-labeled.

The following table shows in detail the year's work in the Museum on catalogues and inventories:

DEPARTMENT.	No. of Record Books.	Total No. of Entries to Sept. 30, 1902.	Entries during 1901-2.	Total No. of Cards Written.
Anthropology,	22	56,000	10,081	58,867
Botany,	49	121,355	20,117	4,050
Geology,	11	30,964	1,991	6,000
Library,	1	32,154	3,882	18,189
Ornithology,	3	13,268	2,199	.....
Photography,	4	6,392	.....	.....
Zoology,	20	25,081	1,089	13,100

ACCESSIONS.—Practically all of the accessions in the Department of Anthropology for the year have fallen within the division of Ethnology. If two purchases, both of considerable interest, are excluded, all collections have been derived from field expeditions, consequently they are of unusual interest and of great scientific importance. The Curator made three trips to Oklahoma and one to New Mexico and on these occasions was able to obtain additional material which strengthened in a notable manner the collections already made from the Pawnee, Osage, Arapaho, Ponca and Oto tribes

and two pueblos on the Rio Grande. Assistant Curator Simms made two expeditions to the Crows of Montana, the result being a collection of unparalleled interest in the possession of the Museum up to the present time from any of the Plains tribes. Especially noteworthy in this extensive collection are a large number of very fine skin garments from the times of the buffalo and an extensive collection of over sixty buffalo shields. In connection with the work of collecting, Mr. Simms conducted ethnological investigations chiefly into the mythology and heraldry of the Crows. Mr. Hudson, special assistant of the Department, returned to California early in the year where he still remains continuing the work of investigation and collection among the California tribes. It will probably require another year to complete Mr. Hudson's field work in California, at which time the entire state will have been covered. His success has been unexpectedly gratifying, owing to the fact that several of the California tribes have been found much richer in material than had been anticipated. Mr. Charles F. Newcombe, for several years an interested friend of this Department, began a systematic series of investigations among certain tribes of the northwest coast early this year with a special object in view of strengthening and supplementing the already valuable collection from this region. Mr. Newcombe has so far confined his attention to the Haidas, especially those of Southern Alaska, where he has met with unexpected success and as a result a large and beautiful series of specimens have been added to the collection from this region, which was hitherto poorly represented. A short exploration of two of the lower Tlingit villages was also made, where he secured a number of very interesting ancient carvings. Though not directly connected with the Department, Lieutenant Emmons generously placed his services at the disposition of the Museum during the summer of this year and purchased for the Museum 100 specimens of Tlingit manufacture, all of unusual merit and forming a notable addition to the collection purchased from him. Through a generous provision of Mr. W J McGee, of the Bureau of Ethnology, the Department was enabled to arrange for a piece of co-operative work with the Bureau among the Cheyenne. This work has been carried on during the year by Mr. James Mooney, a well known ethnologist of the Bureau, and will require an additional year for completion. As a result of this work the Museum expects to acquire a complete collection of Cheyenne artifacts in addition to the reproduction of an entire Cheyenne camping circle as it existed many years ago. All the tipis of a certain year will be reproduced in miniature, properly decorated and with

each tipi will be the shield and other objects especially connected with their very remarkable system of heraldry. Two collections which were of unusual interest were purchases. The first is a collection of about 1,400 specimens from the Tlingits of Alaska and known as the Spuhn collection, although the majority of the specimens were collected by Lieut. Emmons, while the entire collection was labeled by him. The collection is unusually complete even to the minutest detail and is especially welcome inasmuch as this region of the northwest coast was not before represented except by certain priceless specimens illustrating a certain few phases of culture in the Edward E. Ayer collection. The second collection purchased was kindly selected for the Department by Mr. Ayer and comprised a number of remarkable bronze castings from Benin, Africa, and two ancient and valuable Etruscan tombs.

The accessions in the Department of Botany have been many and important. The Herbarium has been augmented to the extent of 20,469 sheets of dried plants from various countries, principally from the United States. Of these 9,946 sheets have been mounted, classified and arranged in the genus covers, together with about 1,500 sheets from the Patterson Herbarium, which is now about one-half mounted and installed. Among the notable collections secured were the following: The private herbarium of Mr. Mason Bross, comprising 1,118 sheets, representing his work of collecting, principally of the flora of Cook County and Northern Illinois and Indiana; the private herbarium of the late Mr. J. A. Stewart of Peoria, Ill., consisting of 1,622 sheets, representing his collection of the flora of the Peoria region and a tour through the Southern States in 1862. Mrs. Agnes Chase also contributed 190 sheets of the more interesting plants of the Chicago region. By purchase the herbarium of Mr. A. A. Heller, of Lancaster, Pa., was obtained, consisting of over 13,000 sheets of plants. In addition to the above, the following sets were secured: Frank E. McDonald, Southern Illinois plants, 355 sheets; Rugel's Florida collection, 430 sheets; S. M. Tracy's Gulf States collection for 1901, 437 sheets; C. G. Pringle's Mexican collection for 1901, 197 sheets; the Botanic Gardens, Sydney, N. S. W., 100 sheets of Australian plants; Rev. Ernest C. Smith, 212 sheets of plants from the Yellowstone National Park, and the Robert Bebb series of 252 sheets from his Southern Illinois and Indiana collection, 1901. Much economic material has also been acquired, the notable additions being as follows: Mr. J. N. Rose, 84 specimens of economic material; Mr. W. R. Ruffner, series of coffees; Marshall Field & Company, 98 type specimens of typical cotton cloths and laces; the Celluloid Company,

New York, 23 specimens illustrating the processes in the manufacture of celluloid; Rev. H. R. Voth, 94 specimens of maize raised by the Hopi Indians; the N. K. Fairbank Company, a series of 25 specimens illustrating the utilization of cotton seed oil, The Old Times Distillery Company, a series of 10 specimens illustrating the manufacture of whiskey from maize.

The chief additions to the Department of Ornithology were obtained by Mr. Breninger in the field, consisting of 1,500 bird skins, many of which were new to the collections, and 163 eggs. Some minor gaps in the exhibition series were filled by purchase in the local market from time to time.

A series of the ores and minerals of Chile from the Chilean Commission to the Pan-American Exposition was among the important acquisitions in the Department of Geology. Other important accessions were: Portion of a fossil tree of the Carboniferous period, with markings well preserved, from the Delaware, Lackawanna & Western Railroad Company; 5 large slabs showing different varieties of Washington serpentine marble, from the United States Marble Company; several specimens of crystals from Mr. W. J. Chalmers; a number of representative gold, copper and corundum ores from Mr. B. W. Goodsell, and a collection of Hawaiian lavas and minerals from Father M. J. Boorman. Quite an amount of material was obtained by exchange, the most important being about fifty specimens of rocks and minerals of Colorado from the Colorado School of Mines, 200 specimens of foreign invertebrate fossils from Mr. W. E. Crane, Tarrytown, N. Y.; a section of the Algoma meteorite from the University of Wisconsin, and a number of specimens of modern invertebrates from Ward's Natural Science Establishment. By purchase the chief acquisitions have been a meteorite from Kansas and specimens of three other falls; relief maps of Niagara Falls, the Hawaiian Islands and Porto Rico, and a series of four relief maps illustrating the stages of recession of Lake Michigan; a collection of fossils from Alaska, including some types of Bison; a series of Upper Silurian and Devonian fossil fishes from Scotland and a number of mineral specimens.

The condition of the specimens obtained by Mr. Heller in the field justifies the great importance which should be attached to this method of obtaining additions to the Zoological collections. This collector's itinerary ranged from Oregon to California and from California to Mexico, and the conscientious manner in which he covered this territory is a matter on which the Museum should be congratulated, as will be seen by the accession lists appended. Much desirable material was also obtained by purchase, notably that obtained from

Mr. C. F. Periolat, consisting of grizzly bear skins, white foxes, blue foxes, caribou, etc. Mention should also be made of the generous gift of Mr. Vernon Shaw Kennedy of certain Mexican mammals. Mr. Gerhard, Assistant Curator of the Division of Entomology, added over 2,500 specimens of insects to the collections.

EXPEDITIONS AND FIELD WORK.—Sixteen expeditions, representing all of the Departments of the Museum, visited different places of research in North America during the year. Anthropology has, perhaps, performed the notable original work, which has been prosecuted with great vigor by all of the members of the staff of that Department: Messrs. Dorsey, Simms, Owen, Hudson and Newcombe. A list of the expeditions made during the year follows:

Locality.	Collectors.	Material.
Alaska,	C. F. Newcombe,	Haida and Tlingit Ethnology.
Oklahoma,	James Mooney,	Kiowa and Comanche Ethnology.
Montana,	S. C. Simms,	Crow and Cheyenne Ethnology.
Oklahoma,	Geo. A. Dorsey,	Pawnee and Arapaho Ethnology.
California,	J. W. Hudson,	California Ethnology.
Mexico,	Geo. F. Breninger, . . .	Birds and Eggs.
Eastern Asia,	Alleyne Ireland,	Ethnology, Geology and Botany.
Oklahoma,	Geo. A. Dorsey,	Pawnee, Osage and Oto Ethnology.
Indiana, Kentucky, Tennessee and Missouri,	W. A. Phillips,	Data for Map of Distribution of Mill Creek Quarry.
Northern Minnesota,	Chas. J. Brand,	North American Forestry Woods, Herbarium Specimens, Economic Specimens.
Montana,	S. C. Simms,	Crow Ethnology.
Oklahoma,	Geo. A. Dorsey,	Ponca, Tonkaway and Arapaho Ethnology.
Oklahoma,	Geo. A. Dorsey,	Pawnee Ethnology.
North Dakota,	E. S. Riggs,	Cretaceous fossils.
Maine,	O. C. Farrington,	Minerals.
South Dakota and Wyoming,	H. W. Nichols,	Ores and Minerals.

During the early part of the year, Mr. Nichols, Assistant Curator of Geology, visited several graphite mines in South Dakota and Wyo-

ming and collected full suites of specimens illustrating the occurrence of that mineral, as well as other ores and minerals of the vicinity. A find in North Dakota of Cretaceous bird remains and other vertebrates, news of which had reached the Museum, was investigated by Mr. Riggs, Assistant Curator of Paleontology. About two weeks were spent in the region, and as a result some fragmentary fossils and economic specimens were secured and arrangements made to have further finds forwarded to the Museum. The Curator spent about two weeks in mineral localities in Oxford County, Maine, and obtained about two hundred specimens of the typical minerals of the region, such as beryl, orthoclase, tourmaline, bertrandite, lepidolite, quartz, garet and amblygonite. Some collecting of local fossils and minerals at Thornton and Elmhurst, Ill., was carried on by the Curator and Mr. A. W. Slocum.

The collection of an adequate representation of the forest trees of the United States that bear particularly upon commerce and the deforestation of the country that was begun several years ago and lapsed for the last three years on account of lack of time with the then working force of the Department of Botany, has again been taken up, three weeks being spent in Northern Minnesota for this purpose. Incidental to this work, other collections of economic material were made in the same locality. The Department has continued its field work upon the Plant Life of the "Lake Chicago Basin," a flora that is rapidly becoming extinct from drainage and reclaiming of the area for building and other purposes. During the year 388 specimens have been added to the already fine series representing this interesting region.

The expeditions of the Department of Anthropology include three by the Curator to Oklahoma and New Mexico, one of these being especially to the Pawnee, funds for which were generously provided by Mr. Cyrus H. McCormick, Mr. Martin A. Ryerson, Mr. Watson F. Blair and Mr. E. E. Ayer; two by Assistant Curator Simms to the Crows; Mr. Mooney's work especially concerning the heraldry of the Cheyenne; Mr. Hudson's extended investigations among the tribes of California; Mr. Newcombe's investigations among the Haidas, especially concerning certain phases of their mental culture. There remains to be noticed the continuation of a series of investigations begun three years ago by the Department among the Hopi, and which have been carried on through the generosity of Mr. Stanley McCormick. The work during the present year has been in charge of Mr. H. R. Voth, who is engaged in preparing for publication accounts of Hopi ceremonies. Mr. McCormick's provision also makes possible the completion of the series of Oraibi altars.



The majority of additions to the Zoological collections were procured by work in the field. The collections made by Mr. Heller are of very considerable value and of great assistance in scientific work in connection with the study collection. In order to extend the field work in this Department and enable the Department to cover more ground, Mr. W. E. Snyder was engaged to collect in certain of the Northern and Western States, but he was unfortunately compelled to make an early return.

INSTALLATION, REARRANGEMENT AND PERMANENT IMPROVEMENTS.—The exterior of the building has received the usual attention but it is becoming evident that certain parts of the structure have reached a state of decay where renewal is impossible. The steam plant was entirely overhauled and a new boiler substituted for one entirely worn out. The Director's office has been calsomined and a hardwood floor laid.

As usual, installation in the Department of Anthropology was pushed forward as rapidly as cases were provided, in accordance with the policy determined upon three years ago. The work of repainting the halls of the Department was also proceeded with. The H. N. Higinbotham Korean collection occupying Hall 2 has been recased. During the year the contents of Halls 4, 5 and 6 were removed, the cases abandoned, the walls freshened and the work of reinstallation of the collections carried on in accordance with the number of new cases provided. Hall 4 is completed and the work of installing the South Sea collections is about completed. No provision has yet been made for the re-casing of the collections from Asia and Africa. It is gratifying to note that the textile collection has been formally abandoned and that therefore the lines of the Department on a strictly anthropologic basis are becoming more and more tightly drawn. Owing to the increase in the collections in North American Ethnology it has been necessary to find additional space. The collections which formerly occupied Halls 10 and 11, therefore, comprising the material from the Eskimo, have been removed to one of the halls north of the East Court. This will make possible a better arrangement of the material in the southeast corner of the Museum. The following collections have been installed and properly placed in new cases: Apache, Navaho, Winnebago, Cheyenne, Crow and Shahaptian, as well as the collection made by Mr. Hudson in California, and by the McCormick Expedition among the ruins of Tusayan. The large collection of Tlingit material purchased from Lieut. Emmons has been temporarily installed in Hall 1, awaiting the re-arrangement of all the northwest coast collections when Mr. Newcombe shall have finished his field work among these tribes.

In the Department of Botany the work of installing the economic collections in proper display cases for view by the public and study by students and special workers has been diligently continued throughout the year, an assistant having been employed with especial view to forwarding this work. In installing the cases referred to 1165 specimens have been added to the collections. The following installations have been accomplished:

GRAMINEÆ:

Six and one-half cases illustrating Indian Corn. Its geographic distribution (by specimens), its varieties, its history and mythology (by specimens). Various forms of aboriginal and commercial foods, the manufacture of whiskey. The use of pith as an obtunder and obturator in warships, and various utilization of the husk.

FAGACÆ:

One-half case illustrating the utilization of the beech in the extraction of vinegar and alcohol. Two cases illustrating the growth, character and utilization of the cork tree.

MALVACEÆ:

Three cases illustrating the utilization of cotton. The extraction and use of the seed oil, the manufacture of celluloid, absorbent cotton, thread and cloth, the stalk fiber and the root.

THEACEÆ:

One-half case of various teas.

ILICINEÆ:

One-half case showing the utilization of Paraguay tea or maté.

RUBIACEÆ:

One case illustrating coffee. Its geography (by specimens), its harvesting, its sophistication and substitution.

ANACARDIACEÆ:

One-half case showing the various products of the family: Japanese lacquer, pistach nuts, marking nuts, wine, oils, waxes, gums and fruits.

LAURACEÆ:

One-half case showing the various products of the family: Camphor, cinnamon, cassia bark, sassafras, oils, fruits and gums.

PALMEÆ:

Two and one-half cases illustrating the utilization of the coconut palm, cordage, wood, utensils, matting, sugar, oil, confections,

fodder and soap. One-half case of palmetto illustrating brush manufacture. One case of saw palmetto illustrating brush and fiber manufacture.

URTICACEÆ;

One-half case of hemp illustrating the utilization of the fiber, the drug hashish, the seed and the oil.

LINACEÆ:

Seven cases illustrating flax, old domestic implements, home-spun linen, machine linen, machine thread, and linseed oil extraction.

PINACEÆ:

Five cases illustrating the turpentine industry, the manufacture of textiles from the needles of the Georgia pine, indurated fiber ware, and the manufacture of paper from wood.

STERCULIACEÆ:

One-half case illustrating cocoa and chocolate.

LEGUMINOSÆ:

Three cases illustrating various products of this large family: Indigo, licorice, peanuts, beans, peas, lentils, lupines, tamarinds, gums, cassia, tonka beans, fibers, tanning substances, etc.

AMARYLLIDACEÆ: (Plates XVIII and XIX.)

One case illustrating the utilization of the Mexican Hemp plant, the Century plant, the Pulque plant and the Ixtle of Mexico.

GUMS AND RUBBERS:

Two cases illustrating the various products of this nature with a special view to the instruction of pharmacological students.

PECULIAR PLANT FOODS:

One case containing temporarily, various odd and interesting human foods of peculiar origin, which will later go into the general systematic arrangement: Agar Agar, Vegetable Cheese, Mandioc Balls, Mowha Flowers, Jamaica Flowers, Sesame Cakes, Screw Beans, Prickly Pears, Yucca Bread, etc.

In the Department of Geology, the most important work performed in installation and rearrangement has been that of a complete reorganization of the paleontological collections. These have been installed in entirely new cases and now occupy five halls instead of three, as formerly. These halls, before occupation, were thoroughly renovated and repainted. For containing the collections thirty-two

wall cases and fourteen floor cases were constructed, after plans prepared by the Curator and assistants. Provision of two kinds of cases was deemed desirable, in order to give more open and attractive appearance to the halls than could be done if either kind was used alone. Further, by this means large and small specimens can be exhibited effectively in the same hall. The wall cases constructed are 12 feet long, 8 feet high, and either 2 or 3 feet deep. The base of the case is 20 inches in height and instead of being made solid, as is usually done, is cut so as to leave six legs, each 6 inches in width and 8 inches high, upon which the case rests. By the substitution of legs for the solid base, marring of the base by the feet of visitors is prevented and dust does not accumulate beneath the case. The portion of the case above the base consists practically, except at the rear, of a series of sashes, each with a single light, framed together. Two sashes, each with a single light 68 x 70 inches, form the front of the case. These are supported by pin butts fastened to the top rail, by means of which the sash can be swung outward when entrance to the case is desired, or by drawing the pins the entire sash can be removed. This plan of swinging the sashes was adopted with some misgivings on account of the weight to be borne, but it proves in practice to be entirely satisfactory. A specimen in any part of the case can be reached in a moment without the removal of the screws or wearing out of screw holes. Two locks in the lower rail of each sash serve as fastenings. Felted tongue and groove joints prevent the entrance of dust. The backs of the cases are of white-wood made of a framework carrying panels to permit normal shrinkage and expansion of the wood. The cases are provided with shelves cut in 3-foot lengths and varying from 7 to 16 inches in width. Considerable study was given the matter of making the shelf supports adjustable to any height and yet inconspicuous and not unduly consumptive of space. The plan adopted and one which seems to fulfill all requirements is to support the brackets by strips of one-quarter inch strap iron in which holes one inch apart bearing a screw head have been bored. To these, brackets of steel or iron, according to the weight which is to be supported, are fastened with screws, the screw passing in until it is flush with the surface of the bracket. The brackets have the form of a right angle, strengthened nearest the angle by extra thickness. By such a system of shelving and supports the case furniture becomes so inconspicuous that the eye scarcely appreciates its existence, and the specimens alone stand out as the objects which the case was designed to exhibit. The prominence of

the shelf is further lessened by bevelling its front edge a quarter of an inch from the top. In the construction of the floor cases one of the chief desiderata was deemed to be the lighting and installation of the small specimens which form so important a feature of all paleontological collections, so that they could be easily and fully examined. The ordinary style of flat or table case is not well suited to this purpose; the visitor must bend over the case in a fatiguing position, the light is reflected in a glaring manner, quite a number of the specimens are beyond an easy range of the eye and the space available for exhibition is no larger, but in fact smaller than the floor space occupied by the case. Vertical cases are better lighted and more economical of space, but they give a hall a crowded appearance and the majority of the specimens are out of range of the eye. Accordingly a case with top sloping two ways was adopted as best meeting the above needs. The cases so constructed and now in use are 5 feet long, 3 feet 8 inches wide and 5 feet $4\frac{1}{2}$ inches high. The base is 36 inches high, 8 inches of a portion of this being cut away to leave legs similar to those of the vertical cases. The remaining space is filled by four tiers of drawers which are utilized to hold specimens supplementary to those exhibited in the case above. The case itself constructed upon this base, has a truncated A shape, the sides and ends being single lights. The side lights are 31×56 inches in size and represent the amount of exhibition space, no use being made of the ends for display purposes. The end lights are of ground glass and with the narrow top lights aid in illuminating the interior of the case. For installing specimens each case is provided with a wooden screen of the shape of a triangular prism and of such a size as to leave a space of 5 inches between it and the side sashes, parallel with the latter. Upon this screen the specimens are installed, being either fastened immediately to it, or, for the most part, glued to tablets of manila board which are then laid upon the screen. The specimens are thus brought so close to the eye that they can be minutely examined. The economy of space afforded by such a case is shown by the fact that 25 square feet of exhibition space and 25 cubic feet of storage space are secured on each 20 square feet of floor space. The sashes of the cases are, like those of the vertical cases, supported by hinges fastened to the top rail. They are fastened by locks at the bottom. To open the case the sash is swung up and held by struts swinging from the floor of the case. All the openings being felted, the case is dust-proof. In both the vertical and floor cases the glass used is plate and the

wood mahogany. In rearranging the paleontological collections the specimens were so grouped as to distinguish the three great eras. Thus all of the fossils of the Paleozoic era are now exhibited in Hall 35, those of the Mesozoic era in Halls 36 and 59 and those of the Cenozoic era in Halls 59, 60 and 61. At the same time all form a consecutive series from the earliest to the latest. Besides the cases in which the specimens are arranged in stratigraphical order, and which form the bulk of the collection, a collection occupying two cases has been prepared which affords a comparison of ancient and living forms while another collection illustrating methods of fossilization occupies a single case. A series of bromide enlargements illustrating restorations of ancient animals has been framed and placed in the cases. An ideal Carboniferous landscape painted in oil was made by the Museum artists and is exhibited in connection with the fossils of that period. The painting is 8x4 feet in size. The large skeletons and specimens having individual floor mounts were moved to positions corresponding with the new classification and new bases were made for them. Three of the large Dinosaur bones have been placed upon floor mounts. The work of cleaning from the matrix the bones of the large dinosaur individual obtained by the expedition of 1901 was pushed as rapidly as the available force would permit. The following portions of this skeleton are at present cleaned and upon exhibition: 23 caudal vertebræ (in series), 15 chevrons, 3 dorsal vertebræ, 2 pubes, 2 ischia, 1 femur and 1 ilium. In addition considerable work has been done in the paleontological laboratory in remounting and reassembling vertebrate fossils on hand since the opening of the Museum which had never been properly prepared. A careful revision of the identification and labeling of the invertebrate fossils was made by Mr. Slocum of the Department and at the same time any needed cleaning and restoration of the specimens was performed. The result of this extensive and detailed labor has been to greatly increase the value and improve the appearance of the collections. As the force of preparators in paleontology was increased and more room was needed for their work, the Curator's office and the paleontological laboratory were exchanged in place. The laboratory thus obtained was fitted with storage racks, sink, closet and revolving work tables, and sliding overhead curtains were provided to regulate the light. In the room now occupied as the Curator's office a side window was cut, the room recalcimined, a closet built, and a transfer of bookcases made. The collection of relief maps formerly occupying Halls 60 and 61 was transferred to Halls 75 and

77, these halls together with Hall 68 having been first entirely renovated and repainted. A shelf with iron railing was built entirely around the walls of the halls to provide a means of supporting and exhibiting the maps. In addition twenty iron easels made after designs by the Curator, were provided for the exhibition of maps in the floor space. Four large tables were also provided for displaying small relief maps. In drawers in these tables have been filed the unmounted maps to the number of several hundred. These are now arranged alphabetically and in labeled covers. A total of sixty-two relief maps, large and small, besides globes and wall maps is now displayed in these two halls and the collection is one of the largest of its kind to be found on exhibition in any Museum. The collection of clays, sands and fictile material which formerly occupied Hall 77 was moved to Hall 68, this hall being in turn vacated by consolidating the collection of building stones with that of marbles in Hall 67. Two new cases were added to accommodate an additional series of clays presented by Mr. J. J. Moroney. Some work in reorganizing the clay collection has been done, the principal undertaking being to exhibit in connection with each specimen of clay, briquettes which show the clay before and after burning. When completed this collection will be of great economic interest and value.

The installation of Hall 24, containing the protozoa, sponges and coral collections, has been almost completed. The specimens have been placed in new cases specially built for their display to advantage, not only showing the specimens in the best possible way, but effecting a great economy of space, the collection, as a matter of fact, now occupying about one-half the space it formerly did.

PHOTOGRAPHY, ILLUSTRATION AND PRINTING.—The development of these two divisions continues and their importance as factors in Museum work cannot be questioned. The addition of a new Gordon press and a large amount of type has greatly increased the usefulness of the Division of Printing. The number of label forms and other impressions turned out by the printer is shown in the following table:

	Labels.	Other Impressions.
Anthropology,	2,295	13,600
Botany,	1,166	10,550
Geology,	5,267	.....
Zoology,	2,991	29,375
Director's Office,	13	36,762
Library, . . . . .	....	10,370

A statement of the work done in the Division of Photography appears below:

	Negatives.	Lantern Slides.	Prints.	Enlarge- ments.
Department A, . . .	261	479	5,162	4
Department B, . . .	37	35	41	..
Department G, . . .	127	185	92	..
Department Z, . . .	838	188	789	..
Director's Office, . . .	7	...	109	..
Distribution, . . .	...	...	38	..
Album, Record, etc., . . .	...	...	4,930	..
	<u>1,270</u>	<u>887</u>	<u>11,161</u>	<u>4</u>

TAXIDERMY AND LABORATORY WORK.—Laboratory work has been of an exceptionally effective character, and the taxidermists have had a busy and productive year. The magnificent group of red deer exposed to the public about ninety days ago seem to mark the highest point that has been reached in the contribution of scientific illustration upon popular lines. While this group has not, of course, been inspected by the critics at home and abroad whose opinions are of the highest desirability, yet enough is known of their opinion of this piece of scientific art to flatter even so diffident a temperament as that of its creator, Mr. Akeley.

Excellent results have been secured from the persistent working over and the installation of new material in economic botany and paleontology, and the Herbarium has made splendid progress in the identification, classification and arrangement of its abundant material.

In the Osteological laboratory much has been accomplished in the last twelve months. The skeletons of fourteen large mammals have been macerated, degreased and bleached preparatory to mounting. One hundred and twenty large skulls and sixteen smaller ones have been cleaned and prepared for the study collection. A large number of skulls have also been prepared for photographing, the illustrations being needed for the work on "The Mammals of Mexico," now in preparation.

ATTENDANCE.—An increase in the attendance approximating 14,000, including 2,500 increase in paid admissions, during the year is the most gratifying evidence that could be given of the growing popularity of the Museum and its increasing interest and consequent usefulness. August 24 marked the fourth largest number of admissions in a single day, 11,000. The analysis of the attendance will be quite interesting. It shows a slight falling off in the attendance of school children and teachers on pay days, but this decrease was coincident with very inclement weather, in the absence of which the comparative



PHOTOGRAPH BY C. H. CARPENTER. EQUUS BURCHELLI TRANSVAALENSIS—THE TRANSVAAL ZEBRA—FIELD COLUMBIAN MUSEUM.

C. E. Akeley, Taxidermist.

attendance at other times shows that in this character of attendance the numbers would have been largely increased. There can be no doubt that the schools of Chicago and Cook County, the public schools as well as universities and colleges, are availing themselves more and more of the facilities of the Museum as teaching adjuncts to the books.

A list is herewith submitted of the classes containing thirty or more scholars that visited the institution during the year just closed. A comparative statement of the attendance in the last two years is also appended:

SCHOOLS AND LOCATION.	Teachers.	Pupils.
Normal—444 West Sixty-ninth st., . . . . .	..	36
Jewish Training School—199 West Twelfth pl.,	1	35
Emerald Avenue—Emerald ave. and Seventy-ninth st.	2	55
River Forest—River Forest, Ill.,	2	41
Sherwood—Princeton ave. and Fifty-seventh st.,	2	35
Sherwood—Princeton ave. and Fifty-seventh st.,	3	58
Talcott—West Ohio st., corner Green st.,	2	44
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	70
Sherwood—Princeton ave. and Fifty-seventh st.,	2	39
Normal—444 West Sixty-ninth st.,	3	33
Marquette—Wood and Harrison sts.,	1	39
Cooper—625 West Nineteenth st.,	2	66
Sherwood—Princeton ave. and Fifty-seventh st.,	2	34
Komensky—Throop st., corner West Twentieth st.,	1	40
Sherwood—Princeton ave. and Fifty-seventh st.,	4	74
Harvard—Harvard ave., near Seventy-fourth st.,	1	37
Sherwood—Princeton ave. and Fifty-seventh st.,	2	41
Chas. W. Earle—Sixty-first st. and Armitage ave.,	2	34
Chas. W. Earle—Sixty-first st. and Armitage ave.,	2	63
Sherwood—Princeton ave. and Fifty-seventh st.,	2	47
Garfield—West Fourteenth pl., corner Johnson st.,	1	40
Normal—444 West Sixty-ninth st.,	3	34
Goodrich—West Taylor and Sangamon sts.,	1	34
O'Toole—Bishop and West Forty-eighth sts.,	1	32
Goodrich—West Taylor and Sangamon sts.,	2	58
Yale—Yale ave. and Seventieth st.,	5	36
Sherwood—Princeton ave. and Fifty-seventh st.,	2	30
Goodrich—West Taylor and Sangamon sts.,	2	44
University of Chicago, . . . . .	..	30
Chas. W. Earle—Sixty-first st. and Armitage ave.,	1	38
Mark Sheridan—Twenty-seventh and Wallace sts.,	3	40
Mark Sheridan—Twenty-seventh and Wallace sts.,	4	80
Alice L. Barnard—Charles st., corner West 104th st.,	3	41
Kershaw—Union ave. and West Sixty-fourth st.,	2	44
Chas. W. Earle—Sixty-first st. and Armitage ave.,	1	39
Greenwood Avenue—Forty-sixth st., corner Greenwood ave.,	1	33
University of Chicago,	7	45

SCHOOLS AND LOCATION.	Teachers.	Pupils.
John Marshall—West Adams st. and Kedzie ave.,	2	62
Jewish Training School—199 West Twelfth pl.,	2	51
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	32
Sherwood—Princeton ave. and Fifty-seventh st.,	1	44
Yale—Yale ave. and Seventieth st.,	5	36
Chas. W. Earle—Sixty-first st. and Armitage ave.,	1	39
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	62
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	40
Normal—444 West Sixty-ninth st.,	1	33
West Pullman—West 120th and Wallace sts.,	1	37
Normal—444 West Sixty-ninth st.,	1	34
Normal—444 West Sixty-ninth st.,	6	55
Normal—444 West Sixty-ninth st.,	1	32
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	2	30
Purdue University—Lafayette, Ind.,	1	40
Yale—Yale ave. and Seventieth st.,	3	36
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	2	36
Garfield—West Fourteenth pl., corner Johnson st.,	1	42
Normal—444 West Sixty-ninth st.,	1	42
Normal—444 West Sixty-ninth st.,	1	44
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	2	34
Van Vlissingen—West 108th pl. and Wentworth ave.,	1	30
Perkins Bass—West Sixty-sixth st., corner South May st.,	1	35
Garfield—West Fourteenth pl., corner Johnson st.,	1	32
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	35
Komensky—Throop st., corner West Twentieth st.,	2	46
Riverside—Hammond, Ind.,	5	94
Komensky—Throop st., corner West Twentieth st.,	2	58
Mark Sheridan—Twenty-seventh and Wallace sts.,	2	47
Prescott—Wrightwood ave., corner North Ashland Ave.,	2	59
Riverside—Hammond, Ind.,	2	52
Haven—Wabash ave. and Fourteenth st.,	1	31
Mark Sheridan—Twenty-seventh and Wallace sts.,	3	75
Prescott—Wrightwood ave., corner North Ashland ave.,	2	40
Josiah L. Pickard—W. Twenty-first pl., corner S. Oakley ave.,	2	34
O'Toole—Bishop and West Forty-eighth sts.,	2	33
Mark Sheridan—Twenty-seventh and Wallace sts.,	1	31
Kershaw—Union ave. and West Sixty-fourth st.,	1	34
Englewood High—West Sixty-second st., corner Stewart ave.,	1	106
Avondale—Sawyer ave., corner West Wellington st., . . . . .	..	30
Komensky—Throop st., corner West Twentieth st.,	4	100
Wells—North Ashland Ave., corner Cornelia ave.,	2	63
Buckley—West Forty-third st., corner Hermitage ave.,	4	167
Linne—Sacramento ave., corner West School st.,	2	51
George Dewey—West Fifty-fourth st., corner Union ave.,	2	56
Cornell—Drexel ave. and Seventy-fifth st.,	2	51
Hermann Raster—Wood st., corner West Seventieth st.,	1	38
Sherman—Morgan st. and West Fifty-first pl.,	1	53
Chicago Lawn—West Sixty-fifth st. and South Homan ave.,	1	52
Marquette—Wood st., corner West Harrison st.,	6	120

SCHOOLS AND LOCATION.	Teachers.	Pupils.
Kershaw—Union ave. and West Sixty-fourth st.,	2	30
Headley—Lewis st., corner Garfield ave.,	1	34
St. Patrick's—Commercial ave., corner Ninety-fifth st.,	1	53
Woodlawn—Lexington ave. and Sixty-fourth st., . . . . .	..	39
University of Chicago, . . . . .	..	39
Yale—Yale ave. and Seventieth st.,	3	43
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	76
Hyde Park High—Fifty-seventh st. and Klmbark ave., . . . . .	..	33

COMPARATIVE ATTENDANCE

FOR THE YEARS ENDING SEPTEMBER 30, 1901, AND SEPTEMBER 30, 1902.

	Increase.	Decrease.
Total attendance,	14,168	....
Paid attendance,	2,528	....
Attendance of School Children on pay days, . . . . .	....	1,008
Attendance of Students,	615	....
Attendance of Teachers,	41	....
Attendance of Members,	36	....
Average Daily Attendance, 1901,	682	
Average Daily Attendance, 1902,	719	

Herewith are submitted financial statements, analysis of attendance, list of accessions, names of members, etc.

FREDERICK J. V. SKIFF,
DIRECTOR.

FINANCIAL STATEMENT.

RECEIPTS AND DISBURSEMENTS

During the Year Ending September 30, 1902.

RECEIPTS.

Cash in Treasurer's hands, Sept. 30, 1901,	\$ 4,652.19
Petty Cash on hand, Sept. 30, 1901,	739.95
Dues of Members—	
Corporate,	\$ 135.00
Annual,	2,800 00
Admissions and Check Rooms,	2,935.00
South Park Commissioners,	6,858.90
Chicago City Railway Company,	15,000.00
Sale of Guides,	2,250.00
Sundry Receipts,	333.50
Interest on Investments,	713.47
Huntington W. Jackson Estate,	18,979.90
W. J. Chalmers, Special,	971.50
Walker & Payne,	40.00
Watson F. Blair,	100.00
M. A. Ryerson,	300.00
Edward E. Ayer,	300.00
Cyrus H. McCormick,	100.00
Sale of Securities	300.00
	<u>141,441.67</u>
	\$196,016.08

DISBURSEMENTS.

Salaries,	\$ 56,689.65
Guard Service,	11,857.37
Janitor Service,	6,929.16
Fire Protection,	2,827.50
Heat and Light—	
Wages,	\$ 3,254.92
Fuel and Supplies,	5,418.47
Additions to Plant,	1,594.54
	<u>\$ 10,267.93</u>
<i>Carried forward,</i>	\$ 88,571.61

	<i>Brought forward,</i>		\$ 88,571.61
Repairs and Alterations—			
	Wages of Carpenters, Painters, Roofers,	11,080	60
	Material used—Paints, Oils, Lumber, Plaster, etc.,	3,008	22
			14,088.82
Furniture and Fixtures—			
	Cases and Bases,	25,920.	08
	Sundries,	561.	53
			26,481.61
The Library—			
	Books and Periodicals,	693	99
	Binding,	371.	90
	Sundries,	86.	65
			1,152.54
Sections of Printing and Photography,			1,294.39
Collections and Articles Purchased,			22,860.80
Installation Expenses,			3,664.64
General Expense Account—			
	Freight, Expressage and Teaming,	1,421.	94
	Stationery, Postage, Telegrams and Telephone,	762.	50
	Publications,	2,471.	11
	Expeditions,	18,768.	51
	Sundries,	1,222.	69
			24,646.75
			\$182,761.16
In Treasurer's hands, Sept. 30, 1902,		4,089.	66
In Treasurer's hands, Sept. 30, 1902, Savings Account,		983.	64
Petty Cash on hand, Sept. 30, 1902,		739.	95
Securities Purchased,		7,441.	67
			13,254.92
			\$196,016.08

ATTENDANCE AND RECEIPTS FOR THE YEAR ENDING SEPT. 30, 1902.

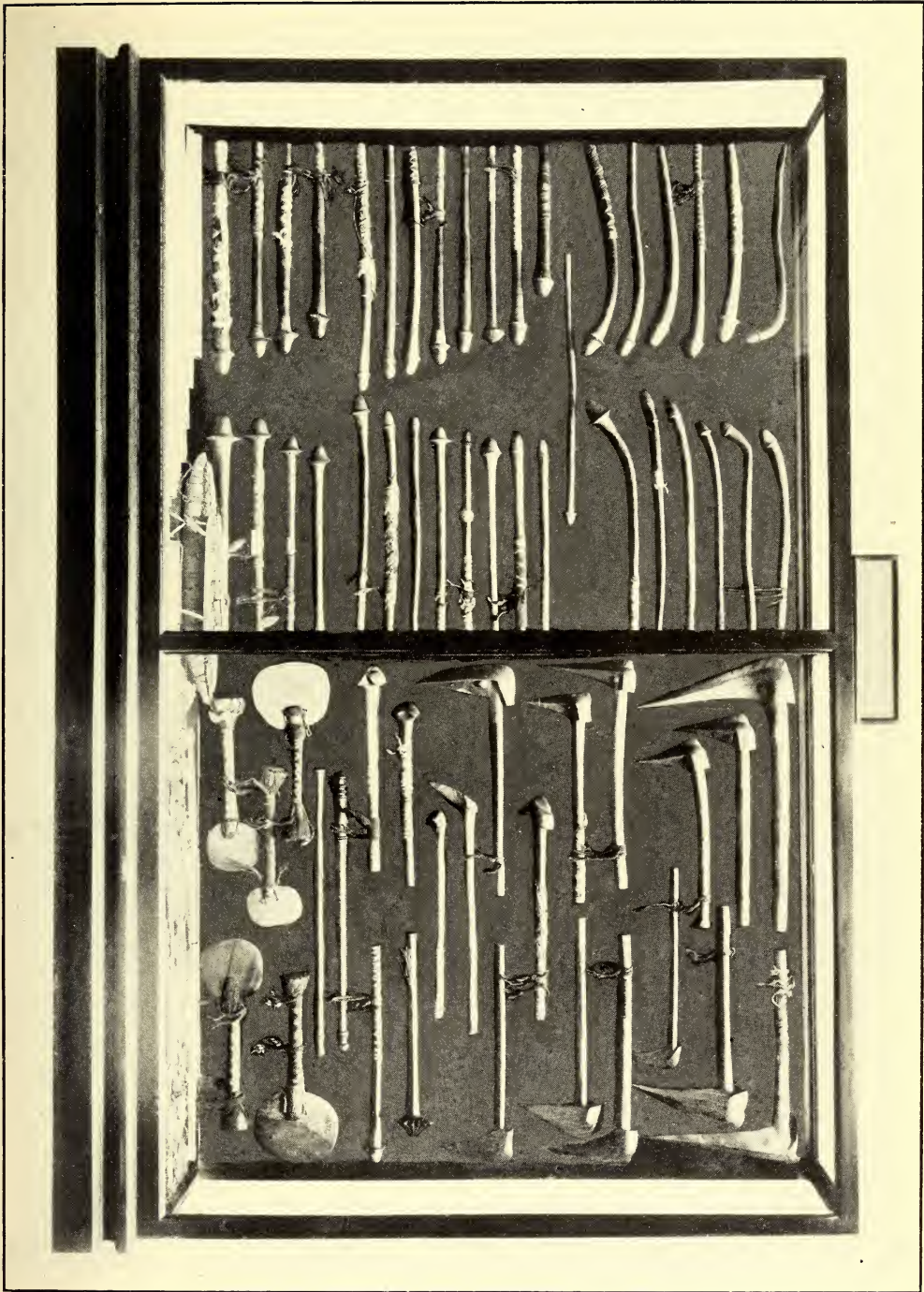
ATTENDANCE.

Paid attendance—			
Adults,	21,676		
Children,	1,359		
			23,035
Free admissions on pay days—			
School Children,	6,849		
Students,	2,807		
Teachers,	632		
Members—Corporate,	14		
Annual,	310		
Life,	10		
Officers' family,	147		
*Special,	228		
			10,997
Admissions on free days—			
Saturdays,	54,986		
Sundays,	173,558		
			228,544
Total attendance,			262,576
Highest attendance on any day (August 24, 1902),			10,914
Highest paid attendance on any day (July 4, 1902),			522
Average daily admissions (365 days),			719
Average paid admissions (261 days),			88

RECEIPTS.

Guides sold—1,334 at 25 cents each,	\$ 333.50
Articles checked—26,800 at 5 cents each,	1,304.00
Admissions,	5,554.90
	<u>\$7,192.40</u>

*American Society of Naturalists.



PHOTOGRAPH BY C. H. CARPENTER.

WAR CLUBS. NEW CALEDONIA. OCEANIA. FIELD COLUMBIAN MUSEUM.

ACCESSIONS.

FROM OCTOBER 1, 1901, TO SEPTEMBER 30, 1902.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

ADAMS, MILWARD, Chicago.

Suit of Japanese armor (exchange).

AMERICAN MUSEUM OF NATURAL HISTORY, New York.

Plaster cast of stone image from Seattle, Wash. (exchange).

BUCKWALTER, F. B., Homer, Neb.

Winnebago peace pipe, catlinite bowl (exchange).

COFFIELD, W. A., Pine Ridge, S. D.

Sioux war bonnet—S. Dakota (exchange).

FIELD COLUMBIAN MUSEUM.

Collected by Geo. A. Dorsey :

Ethnological specimens from the Kickapoo, Pawnee, Arapaho—Oklahoma.

Ethnological specimens from the Pawnee, Oto, Osage—Oklahoma.

Ethnological specimens from the Pawnee—Oklahoma.

Ethnological specimens from the Arapaho, Cheyenne, Kiowa, etc.—Oklahoma.

Collected by J. W. Hudson :

Ethnological collections from N. E. California.

Collected by C. F. Newcombe :

Ethnological specimens from the Tlingit and Haida—Alaska.

Collected by S. C. Simms :

Ethnological specimens from the Crow and Cheyenne—Montana.

2 skeletons—Crow Reservation, Mont.

Buffalo hide shields, buckskin shirts, bows and arrows, etc.—Crow Reservation, Mont.

Purchases :

Double-headed drum, Winnebago—Wisconsin.

Set of Lacondon bows and arrows—Mexico.

Skull and skeleton—San Nicholas Island, Cal.

Stone celt—Cahokia, Ill.

Cheyenne buffalo robe.

Hopi buffalo head dress.

Winnebago war club.

Winnebago war bow.

Winnebago bone knives.

Buffalo hide shield.

Ethnological specimens from the Ovimbundu and the Lovali tribes—West Africa.

Ethnological specimens from the Tlingit stock—Alaska.

Benin bronze heads—Benin, Africa.

Etruscan marble sarcophagi—Italy.

Roman iron garden tools from villa at Boscoreale.

Hopi Indian photographs.

- FIELD, MARSHALL & CO., Chicago.
Apache necklace of polished stone beads—Arizona (exchange).
- FREE MUSEUM OF SCIENCE AND ART, Philadelphia, Pa.
Copies of games (exchange).
Original head dress (exchange).
Archæological material, pottery, etc.—Pachacamac, Peru (exchange).
Skeletons of Yankton Sioux—Fort Peck Reservation, Mont. (exchange).
- HAMMOND, CHAS. L., 4627 Greenwood avenue, Chicago.
Indian book from village of Northern Cheyenne—Wyoming.
- HINSDALE, W. B., Ann Arbor, Mich.
Ethnological specimens from among the Klamath—California (exchange).
- MOORE, C. B., Philadelphia, Pa.
Casts of rare stone implements from Alabama and Georgia.
- RODDY, T. R., Chicago.
Sacred Sioux medicine bags (exchange).
Snow Snake, Iroquois, sacred lightning medicine of the Winnebago—(exchange).
- SARGENT, HOMER E., Chicago.
Small water basket (cheeter cup) made by Paiute—Nevada.
Photographs of Paiute Indians—Nevada.
Pueblo ceremonial robe of Pueblo Indians, N. M.
Dress of Hopi Indians, Arizona.
- SCOTT, MRS. J. W., Chicago.
War bonnet, pair beaded leggings, knife sheath, hair ornaments of horse hair and porcupine quill, of the Sioux (loan).
Sioux saddle bags.
- SETON-KARR, W. H., Wimbledon, London, England.
Rude stone implements—Somaliland, Africa.
- SPINK, R. C., Yainac, Oregon.
Beaver teeth dice game—Klamath Reservation, Oregon (exchange).
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
Ethnological specimens from the Andaman Islands (exchange).
- WESTON, H. M., Chicago.
Buckskin dress, beaded (deposit).
Basket cap (deposit).
- WILSON, R. N., McLeod, Alberta.
Games, etc., of the Piegan Indians—N. Piegan Reservation (exchange).
- WOHLGEMUTH, CARL, Bozen, Tyrol, Austria.
Collection of historical relics from Bavaria (exchange).

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ADY, G. E. & CO., Denver, Colo.
12 samples Dent corn—Colorado.
- ARTHUR, J. C., La Fayette, Ind.
1 specimen *Puccinia Windsoriae* Schw—La Fayette, Ind.
- AYER, MRS. E. E., Chicago.
1 herbarium specimen—Lake Geneva, Wis.
- BEBB, ROBERT, Washington Heights, Chicago.
252 herbarium specimens—Illinois, Indiana and Massachusetts.
- BIDWELL, JOSEPH E., Chicago.
3 samples of standardized corn—Illinois.
- BOTANIC GARDENS, Sydney, Australia.
13 herbarium specimens—New South Wales (exchange).
120 herbarium specimens—Australia (exchange).
- BROSS, MASON, Chicago.
1118 herbarium specimens—various localities.

- BUDGE, ENRIQUE, Buffalo, N. Y.
110 specimens Chilean fruits and seeds.
- THE CELLULOID CO., New York City.
35 celluloid effects.
1 book of "Tex-o-derm."
- CHAMBER OF COMMERCE, Baltimore, Md.
3 samples of standardized corn—Maryland.
- CHAMBER OF COMMERCE, Boston, Mass.
5 samples graded corn—Massachusetts.
- CHASE, MRS. AGNES, 5515 Monroe avenue, Chicago.
3 packages fruits of *Crataegus*, Illinois.
1 package fruits of *Crataegus*—Illinois.
171 herbarium specimens—Indiana, Illinois and Michigan.
2 packages fruits of *Crataegus*—Mokena, Illinois.
3 upholstery fibers.
- CHASE, V. H., Wady Petra, Illinois.
14 herbarium specimens—Illinois (exchange).
- DEERING HARVESTER CO., Chicago.
1 leaf of Sisal hemp—Yucatan.
- DORSEY, GEO. A., Chicago.
1 cotton cloth—Ancon mummy.
1 cotton cloth—Peruvian Indians.
- EMRICK, DR. G. M., 5700 Kimbark avenue, Chicago.
9 specimens dried plants and fruits—Paso del Rio, Mexico.
- ENTORF, RUFFNER & CO., Chicago.
37 samples coffee types.
- FAIRBANK CO., THE N. K., Chicago.
25 samples vegetable oil products.
- FIELD COLUMBIAN MUSEUM.
Collated by Mrs. Agnes Chase:
10 portions of plants—Missouri Botanical Garden.
Collated by C. F. Millspaugh:
14 various gramineæ.
127 portions of plants, tracings and drawings.
Collected by Charles J. Brand:
100 herbarium specimens—Bemidji, Minn.
6 specimens woods—Bemidji, Minn.
Collected by O. E. Lansing, Jr.:
56 herbarium specimens—Illinois and Indiana.
332 herbarium specimens—Illinois and Indiana.
Collected by S. E. Meek:
4 herbarium specimens—Ocotlan, Mexico.
Collected by C. F. Millspaugh:
57 herbarium specimens—Arizona.
- Purchases:
84 specimens in plant economics—Mexico.
1 pint essence of coffee.
1 sample of kola nuts.
1 sample of dandelion root.
4 samples coffee substitutes.
1 sample cotton root bark.
1 sample fluid extract cotton root bark.
19 specimens corn types—Illinois.
1,522 herbarium specimens—various localities.
13,000 herbarium specimens—North America and Hawaiian.
437 herbarium specimens—various localities.
545 herbarium specimens—Texas and Mexico.
212 herbarium specimens—Yellowstone National Park.
1 lacquer box.

- 1 carved bamboo.
- 1 sample cassia oil.
- 1 sample sassafras oil.
- 1 sample cinnamon oil.
- 1 sample hemp seed oil.
- 4 bromide enlargements.
- 4 economic specimens—Cashew seeds, mastich gum, pistach nuts, Chian turpentine.
- MARSHALL FIELD & CO., Chicago.
 - 98 samples various types cotton goods.
- GRAY HERBARIUM, Cambridge, Mass.
 - 1 herbarium specimen—Cuba.
- ITASCA PAPER CO., Grand Rapids, Minn.
 - 14 specimens illustrating paper pulp manufacture.
- KANSAS CORN FEATHER CO., Clinton, Iowa.
 - 1 corn feather mattress.
 - 1 sample corn feathers.
- KATO COFFEE CO., Chicago.
 - 1 bottle coffee fiber.
 - 1 bottle rancid fat.
 - 1 bottle kato.
- MAYERHOFF, DR. PAUL S., Fort Apache, Arizona.
 - 127 Indian plants and economics—Arizona.
- McDONALD, FRANK E., Peoria, Illinois.
 - 355 herbarium specimens—Illinois (exchange).
- MIDLAND LINSEED OIL CO., Minneapolis, Minn.
 - 12 samples illustrating linseed oil extraction.
- MILLSPAUGH, C. F., Field Columbian Museum.
 - 1 type moss—West Virginia.
 - 1 type flowering plants—West Virginia.
 - 21 herbarium specimens—West Virginia and Mexico.
 - 1 sample French chestnuts.
 - 1 sample French chestnut burrs.
 - 12 samples coffee substitutes.
 - 1 sample Padang coffee.
 - 1 sample German coffee berry—soy beans.
 - 18 drawings and type fragments.
 - 1 package banana cigar wrappers—Porto Rico.
 - 1 quart parched sweet corn.
 - 1 bottle corn stigmas from Hopi corn.
- NEW YORK BOTANICAL GARDEN, Bronx Park, New York.
 - 634 herbarium specimens—Porto Rico (exchange).
 - 48 herbarium specimens (exchange).
- NORTHRUP, KING & CO., Minneapolis, Minn.
 - 18 samples typical corn—Minnesota.
- OHIO AGRICULTURAL EXPERIMENT STATION, Wooster, Ohio.
 - 134 herbarium specimens—Ohio (exchange).
- OHIO STATE UNIVERSITY, Columbus, Ohio.
 - 16 specimens fungi exsiccati—Ohio (exchange).
 - 26 specimens fungi exsiccati—Ohio (exchange).
 - 18 specimens fungi exsiccati—Ohio (exchange).
 - 20 specimens fungi exsiccati—Ohio (exchange).
- THE OLD TIMES DISTILLERY CO., Louisville, Ky.
 - 10 specimens illustrating corn whisky.
- PARKE, DAVIS & CO., Detroit, Mich.
 - 126 medicinal roots and herbs.
- THE PHILADELPHIA MUSEUMS, Philadelphia, Pa.
 - 128 economic specimens (exchange).
- POLLARD, C. L., Washington, D. C.
 - 2 herbarium specimens—Cuba.

- RICE, BARTON & FALES, Worcester, Mass.
2 photographs of fourdrinier.
- SANITAS NUT FOOD CO., Battle Creek, Mich.
1 package hullless beans.
1 package bean hulls.
1 package toasted corn flakes.
- ESTATE OF HIRAM SIBLEY, Sibley, Illinois.
6 samples corn types—Sibley, Illinois.
- SNOW, MISS L. M., Chicago.
5 herbarium specimens—Delaware.
- SPRAGUE, WARNER & CO., Chicago.
1 sample cassia buds.
1 sample Sargon cassia.
1 sample Ceylon cinnamon.
1 sample Java cassia bark.
1 sample Canton cinnamon.
- THORBURN, J. M. & CO., New York.
92 specimens typical corn—New York.
72 specimens typical beans—New York.
- UMBACH, DR. L. M., Naperville, Illinois.
102 herbarium specimens—Illinois, Indiana and Canada (exchange).
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
456 herbarium specimens—Florida and Mexico (exchange).
65 herbarium specimens—various localities (exchange).
- UNIVERSITY OF MINNESOTA, Minneapolis, Minn.
135 herbarium specimens—North America (exchange).
- VAUGHAN, J. C. & CO., Chicago.
6 specimens typical corn—Milford, Conn.
- VOTH, H. R., Oraibi, Arizona.
58 herbarium specimens—Arizona.
36 specimens corn of the Hopi—Arizona.
- WHITMAN, CLARENCE & CO., Chicago.
4 samples various grades cotton goods.

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- BAILEY, MRS. C. A., Rome, N. Y.
1 relief map.
1 cast "Welcome" nugget.
1 cast crustacean track.
5 casts meteorites.
1 cast platinum nugget.
1 lava stalactite.
- BOARMAN, FATHER M. I., Chicago.
9 specimens volcanic products—Hawaiian Islands.
- BOEDAKER, WILLIAM, 602 117th street, Chicago.
1 specimen trilobite—*Calymene niagarensis*—Lemont, Ill.
- BOWLAND, MISS M. M., Galion, Ohio.
2 specimens fossil fishes—Colorado.
3 specimens fossil plant impressions—Colorado.
- BUDGE, ENRIQUE, Buffalo, N. Y.
31 specimens minerals and ores—Chile.
- CHALMERS, W. J., 188 Lincoln Park boulevard, Chicago.
1 specimen tourmaline crystal—California.
1 section smoky quartz crystal showing zonal structure—Colorado.
- CRANE, W. E., Tarrytown-on-the-Hudson, New York.
205 specimens Paleozoic fossils (50 species), (exchange).

CONSOLIDATED MINES, Kimberley, South Africa.

25 photographs, illustrating diamond mining.

DELAWARE, LACKAWANNA & WESTERN RAILROAD, Scranton, Pa.

1 stump of tree of the Carboniferous period, diameter at base 2 feet, height 2½ feet.

DERR, H. B., Champaign, Ill.

1 photograph of *Ptychophyllum stokesii*, Niagara limestone, Chicago.

ELDRIDGE, E. W., Chicago.

3 specimens graphite—Colorado.

FARGO, DR. J. F., Los Angeles, Cal.

2 specimens crystallized corundum in matrix—California.

1 specimen opal—California.

1 specimen axinite—Japan (exchange).

FIELD COLUMBIAN MUSEUM.

Collected by O. C. Farrington :

162 specimens minerals, beryl, orthoclase, tourmaline, bertrandite, etc.—Maine.

Collected by O. C. Farrington and A. W. Slocum :

8 specimens bitumen in limestone, 5 specimens fossils, 1 specimen pyrite—Thornton, Ill.

2 species fossil fish teeth, 2 species crinoids, 1 species coral, 1 glaciated pebble—Elmhurst, Ill.

Collected by L. V. Kenkel :

1 specimen marcasite concretion—Chicago.

1 specimen banded jasper—Wauconda, Ill.

Collected by H. W. Nichols :

28 specimens ores of the Black Hills, S. D., and Laramie Mountains, Wyo.

1 specimen zinc ore—Tennessee.

1 specimen graphite—Wyoming.

Collected by E. S. Riggs :

14 specimens of fossil shells (2 species)—Illinois.

1 specimen adobe clay—Colorado.

9 specimens cement rock clays and their products—North Dakota.

24 vertebræ of *Morosaurus* and *Plesiosaurus*, 10 invertebrate fossils—North Dakota.

Purchases :

2 pyrite "suns."

1 specimen pyrite on slate.

2 specimens anorthite.

1 specimen sulphur.

1 specimen gold—North Carolina.

1 section of Casas Grandes meteorite.

1 relief map of Porto Rico.

1 relief map of Hawaiian Islands.

1 relief map of Niagara Falls.

18 specimens celestite crystals.

2 specimens sulphur.

2 specimens crystallized epidote.

47 grams Agen meteorite.

85 grams Lancon meteorite.

15 mineral specimens—various localities.

Skull of *Hyracodon*—South Dakota.

Saline Township, Kansas, meteorite.

92 specimens vertebrate fossils—Wyoming and Alaska.

28 specimens Upper Silurian and Devonian fishes—Scotland.

20 specimens minerals.

2 tusks of mammoth—Alaska.

1 relief map showing stages of recession of Lake Chicago.

8 bromide enlargements.

FOHRMAN, CHAS. A., Chicago.

1 specimen covellite—Wyoming.

- FOOTE MINERAL CO., Philadelphia, Pa.
1 section of amethyst crystal—Brazil (exchange).
- GARDNER, JOHN L., JR., Boston, Mass.
1 negative and print of beryl crystal.
- GOODSELL, B. W., Chicago.
8 specimens copper ore, 2 specimens gold ore, 1 specimen corundum—
United States and Canada.
- JOHNSON, E. C., Hill City, South Dakota.
1 specimen of tin ore, weighing 200 lbs.—Gertie mine, Black Hills.
- KING, IRVING, Chicago.
3 species fossil ostrea, 1 species fossil coral, 1 species fossil foraminifera—
Natchitoches, La.
- MILLS, A. C., 5613 Kimbark avenue, Chicago.
1 specimen post-glacial conglomerate—Wabash, Ind.
- MORONEY, J. J., Chicago.
71 specimens briquettes, 11 specimens clays.
- PHILLIPS, DR. W. B., Austin, Texas.
2 specimens mercury ore.
2 specimens country rock of same.
- PIERCE, H. B., Golconda, Ill.
6 specimens fluorite, 2 specimens sphalerite, 1 specimen smithsonite,
1 specimen barite, 1 specimen galena—Illinois.
- ROMANO, JOSEPH, Austin, Ill.
1 specimen limonite concretion.
- SHAFER, SILAS A., Assumption, Ill.
2 blocks of bituminous coal from 1,000 foot level, upper and lower veins
—Assumption, Ill.
- SLOCOM, A. W., Chicago.
347 specimens fossils (55 species), 4 specimens rocks, 3 specimens min-
erals, (loan).
- STATE SCHOOL OF MINES, Golden, Colorado.
17 specimens rocks, 18 specimens minerals—Colorado and Minnesota
(exchange).
- STURTEVANT, G. W., Chicago.
6 specimens gold and silver ores—Arizona.
- UNITED STATES MARBLE CO., Spokane, Washington.
5 specimens marble—Washington.
- UNIVERSITY OF CHICAGO, Chicago.
177 specimens fossils (18 species)—Utah and Indiana.
- UNIVERSITY OF WISCONSIN, Madison, Wis.
1 polished section of Algoma meteorite, 6½ grams—Algoma, Wis.,
(exchange).
1 cast of Algoma meteorite (exchange).
- WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.
13 specimens modern crinoids, brachiopods and echinoderms (exchange).
1 skeleton of lizard (exchange).
1 skull of peccary (exchange).
- WEBER, DR. F. C., Chicago.
1 specimen ferro-titanium-bor.

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- CLARK, H. W., Chicago.
1 lesser scaup duck—Jackson Park, Chicago.
- DEARBORN, N., Chicago.
6 bird skins—New Hampshire.

FIELD COLUMBIAN MUSEUM.

Collected by Geo. F. Breninger:

- 232 bird skins—Chihuahua, Mexico.
- 515 bird skins—Mexico.
- 487 bird skins—Mexico.
- 65 bird skins—Mexico.
- 2 bird skins, 163 bird's eggs—Mexico.
- 186 bird skins—Mexico.

Collected by E. B. Chope:

- 1 Maryland yellowthroat.
- 1 Northern shrike.
- 2 sora.

Purchased:

- 1 hooded merganser—Browning, Illinois.
- 20 bird skins.
- 1 ring-necked duck.
- 1 scaup duck.
- 1 widgeon.
- 2 plantain eaters, 1 hornbill, 1 heron, 2 hawks—Cameroons, West Africa.

GERHARD, WM. J., Chicago.

- 1 Tennessee warbler—Illinois.
- 1 flicker—Illinois.

KENNICOTT, H., The Grove, Illinois.

- 1 shoveler duck—Illinois.

McCORMICK, R. H., Virginia Hotel, Chicago.

- 1 Owens apteryx.
- 1 owl parrot.

SCHAU, MRS. J. W., Chicago.

- 1 rose-colored cockatoo.

DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AMERICAN MUSEUM OF NATURAL HISTORY, New York.

- 1 skeleton European red deer (exchange).

BEAN, DR. T. H., Washington, D. C.

- 1 mole—Long Island, New York.

93 fishes, 5 snakes, 2 turtles, 2 frogs, 1 crab, 3 shrimps—Long Island, New York.

- 3 fishes—Long Island, New York.

BRIND, W. L., 4001 Grand boulevard, Chicago.

- 3 snakes—South Chicago, Ill.

CHAMBERLIN, R. V., Brighton, Utah.

- 1 centipede—Utah.

CHOPE, E. B., Field Columbian Museum.

- 446 beetles, 5 ichneumon flies—various localities.

- 1 spider's nest—Chicago.

- 53 beetles, 6 flies, 4 bugs—various localities.

- 1 cockroach, 32 bugs, 16 flies, 20 bees and wasps, 4 grasshoppers, 1 beetle—Chicago.

- 1 wasp, 1 fly, 10 bugs, 116 beetles, 1 moth—Chicago.

- 61 bees and wasps, 13 flies, 12 beetles, 2 bugs—Chicago.

- 9 flies, 2 grasshoppers, 22 bees and wasps, 1 bug, 42 beetles—Chicago.

- 3 bugs, 1 katydid, 1 wasp, 1 fly, 3 beetles, 12 grasshoppers—Russell, Ala.

- 6 flies, 29 beetles, 3 bugs, 2 butterflies—Illinois.

- 13 flies, 11 bees and wasps, 1 moth, 1 beetle, 3 bugs, 2 butterflies, 1 ant—Chicago.

- 6 flies, 1 bee—Chicago.

CLARK, H. W., Field Columbian Museum.

1 bug—Chicago.

2 dragonflies, 2 beetles, 2 fungusflies—Chicago.

1 beetle, 2 moths—Chicago.

CORY, C. B., Boston, Mass.

1 rabbit—Mexico.

1 squirrel—Mexico.

DEARBORN, N., Field Columbian Museum.

1 fly—Chicago.

DOHMEN, U. A., Field Columbian Museum.

2 flies, 1 beetle—Chicago.

1 beetle—Roby, Ind.

DRUMMOND, GEO. H., Chicago.

1 waterbug—Chicago.

ELLIOT, D. G., Field Columbian Museum.

1 beetle—Chicago.

FIELD COLUMBIAN MUSEUM.

Collected by Geo. F. Breninger:

5 squirrels, 4 chipmunks—Mexico.

Collected by Wm. J. Gerhard:

106 specimens bugs, beetles, flies, grasshoppers, bees, etc.—Chicago.

114 specimens butterflies, bees, wasps, flies, beetles and bugs—Chicago.

100 specimens grasshoppers, butterflies, bees, wasps, flies, beetles, moths, etc.—Chicago.

73 specimens mayflies, moths, butterflies, bees, wasps, beetles, bugs, etc.—Chicago.

53 specimens moths, flies, cockroaches, bees, wasps, etc.—Chicago.

40 specimens cockroaches, butterflies, dragonflies, flies, bees, wasps and beetles—Miller, Ind.

138 specimens moths, beetles, roaches, bugs, flies, grasshoppers, bees, wasps, etc.—Chicago.

91 specimens bugs, beetles, moths, flies, etc.—Chicago.

159 specimens grasshoppers, moths, butterflies, flies, beetles, bees and wasps—Glen Ellyn, Ill.

77 specimens beetles, moths, flies, butterflies, dragonflies, wasps, etc.—Chicago.

89 specimens caddiceflies, bugs, beetles, moths, dragonflies, bees, wasps, etc.—Chicago.

39 specimens butterflies, moths, bugs, flies, bees and wasps—Riverdale, Illinois.

170 specimens caddiceflies, mayflies, beetles, moths, butterflies, bees, wasps, etc.—Chicago.

276 specimens dragonflies, caddiceflies, bugs, moths, beetles, bees, wasps, etc.—Chicago.

1 bat—Willow Springs, Ill.

1 cricket, 29 moths—Chicago.

148 specimens moths, butterflies, bees, wasps, grasshoppers, waterbug, flies, etc.—Riverside and Chicago, Ill.

72 specimens parasites, lacewings, leafhoppers, flies, moths, caterpillars, butterflies, bees, etc.—Chicago and Beverly Hills, Ill.

70 specimens moths, flies, beetles, grasshoppers, bees, wasps, parasites, etc.—Chicago and Maywood, Ill.

64 specimens flies, moths, scorpion fly, bees, wasps, caterpillars, parasites, etc.—Chicago.

133 specimens beetles, flies, bugs, moths, dragonflies, bees, wasps, etc.—Chicago and West Pullman, Ill.

1 gopher—Willow Springs, Ill.

65 specimens moths, flies, butterflies, beetles, bees, wasps and bugs—Beverly Hills, Ill.

66 specimens moths, scorpion flies, grasshoppers, beetles, bees, wasps, etc.—various localities.

- 65 specimens parasites, sawflies, scorpionflies, beetles, gall insects, etc.—Illinois.
 163 specimens moths, parasites, bugs, bees, wasps, etc.—Illinois.
 43 specimens beetles, moths, wasps, bees, grasshoppers, butterflies, etc.—Illinois.
 20 specimens bugs, flies, hemerobians, beetles, bees and wasps—Chicago.
- Collected by E. Heller:
 28 specimens snakes and lizards—California.
 2 black-tailed deer—California.
 178 specimens skunks, rabbits, weasels, minks, squirrels, moles, shrews, mice, gophers, chipmunks, etc.—Oregon.
 3 polecats, 2 squirrels, 2 shrews, 13 pouch rats, 4 rabbits, 2 wood rats, 1 muskrat, 1 weasel—Oregon.
 16 snakes, 1 lizard—Oregon.
 2 snakes, 2 lizards—Oregon.
 149 rodents—Oregon.
 43 rodents—Mexico.
 8 rabbits, 7 foxes, 1 antelope, 4 bats, 219 rodents—Mexico.
 1 scorpion—California.
 13 rodents—Mexico.
 15 ground squirrels, 17 bats, 2 foxes, 2 rabbits, 15 wood rats, 5 jumping rats, 10 gophers, 101 mice, 13 sheep, 5 deer—Mexico.
 1 bat—Mexico.
 9 snakes, 95 lizards, 1 toad, 4 fishes—Lower California.
 7 horned toads, 91 lizards, 7 snakes, 100 fishes—Lower California.
- Collected by F. E. Lutz:
 1 beetle, 1 male cricket, 1 centipede, one dragon-fly lava—Mexico.
 2 beetles, 8 bugs, 1 dragon-fly lava—Mexico.
 1 bug, 1 tarantula, 5 scorpions—Mexico.
 6 water bugs, 9 water beetles—Mexico.
 1 water bug—Mexico.
 2 water bugs—Mexico.
 18 grasshoppers, 1 diggerwasp, 6 beetles, 17 bugs, 50 mosquitoes—Mexico.
 95 cockroaches, 1 grasshopper, 11 crickets, 1 velvet ant—Mexico.
 1 water bug—Mexico.
- Collected by W. E. Snyder:
 35 rodents—N. Dakota.
 17 ground squirrels, 1 badger, 1 rabbit, 3 gophers, 13 mice—N. Dakota.
 16 rodents—N. Dakota.
 49 rodents, 1 insectivora, 1 carnivora—N. Dakota.
 30 rodents—Steele, N. Dakota.
 83 rodents, 2 bats—N. Dakota.
- Purchases:
 7 rat and weasel skins, 6 skeletons—W. Va.
 6 mountain goat—Alaska.
 1 moose skin and skull.
 19 skulls of mink, marten and otter.
 21 mammal skins and skulls.
 1 wolf skin and skull.
 6 ourang-outang skulls.
 49 moths, 138 dragon-flies, 1012 bees and wasps, 95 grasshoppers, 123 flies, 832 beetles.
 1 bull moose, 2 cow moose, 1 yearling—Alaska.
 1 rabbit, 1 badger, 4 hares, 5 weasels, 8 mice, 1 rat, 3 woodchucks, 18 ground squirrels—Canada.
 8 bats, 3 shrews—N. W. Territory.
 3 grizzly bear skins and skulls, 1 brown bear skull—Alaska.
 2 white foxes, 2 blue foxes, 4 rabbits, 1 seal.
 1 moose skin and skull—Alaska.
 6 gophers, 4 rats, 21 mice, 4 jumping mice, 4 ground squirrels—California.
 9 rats, 29 mice, 2 ground squirrels.
 4 caribou—British Columbia.
 4 squirrels, 1 weasel.

4 rats, 2 jumping rats, 2 pocket rats, 6 mice, 1 armadillo, 1 wolf, 1 fox.
 6 monkey skins and skulls.
 1 blue bear skin.
 4 kangaroo rats.
 5 beaver skins.
 2 bear skins and skulls.
 1 skeleton of New Zealand lizard.
 2 fishes, 1 timber wolf—Michigan.
 13 tiger beetles—various localities.
 5 antelope, 3 monkeys, 2 flying squirrels, 2 rats, 4 mice.
 140 specimens fishes (42 species).
 24 cave bats—Cuba.
 6 sable, 3 mink, 2 foxes, 6 lynx, 2 wolverines, 3 otters, 1 caribou—Alaska.

FISH, CARL, Harrisburg, Neb.

1 beetle—Nebraska.
 1 snake—Nebraska.

GERHARD, WM. J., Field Columbian Museum.

113 moths, 282 butterflies—various localities.
 114 specimens beetles, flies, grasshoppers, bugs, bees, wasps, etc.—New York.

HALL, MISS JENNIE, 5445 Drexel avenue, Chicago.

2 scorpions (in alcohol)—Texas.

HELLER, E., Field Columbian Museum.

51 rodents and insectivores—Oregon.
 49 mammal skins—California.

HARRIS, MRS. JOSEPH, 4532 Lake avenue, Chicago.

1 dragon fly—Chicago.

HART, W. H., New York.

3 bear skulls—Mexico.

KENKEL, L. V., Field Columbian Museum.

1 wasp's nest—Chicago.
 1 dragon fly—Chicago.
 18 specimens bugs, beetles, bees, wasps, flies, moths—Illinois.
 3 bats—Chicago.
 1 centipede, 1 water bug—Chicago.

KENNEDY, VERNON SHAW, 3524 Michigan avenue, Chicago.

2 bears, 5 pumas, 4 foxes, 3 lynx—Mexico.
 1 bear skin and skull.

KREKO BROS. Armenia.

1 camel.

LINDAHL, SETH, 53 75th street, Chicago.

696 beetles—various localities.

LUTZ, F. E., Chicago.

6 mice—Chicago.
 1 wood rat, 1 porpoise skull—Mississippi.

MASON, C. K., Field Columbian Museum.

1 ground wasp—Chicago.

MEARNS, DR. EDGAR A., Newport, R. I.

4217 specimens shells (37 species)—Newport, R. I.

MEEK, S. E., Field Columbian Museum.

1 wasp—Chicago.

MILLSPAUGH, CHAS. F., Field Columbian Museum.

125 specimens weevils, parasites, beetles, flies, etc.
 2 pea weevils.
 108 specimens flies, beetles, pea weevils, ichneumon flies—various localities.
 207 specimens dragon flies, moths, butterflies, bees, wasps, bugs and beetles—Colorado.
 228 specimens beetles—various localities.
 7 beetles—Mexico.
 1 moth—Chicago.

- MILWAUKEE PUBLIC MUSEUM, Milwaukée, Wis.
3 killifishes—Florida.
- MUNZNER, H., Chicago.
1 beetle—Harvey, Ill.
- NORRIS, PHILIP, Field Columbian Museum.
1 beetle—Chicago.
1 dragon-fly, 1 fly, 2 beetles—Chicago.
- PEDERSEN, J. K., Field Columbian Museum.
1 ground squirrel—Chicago.
- PETERSEN, J. F., Field Columbian Museum.
33 specimens beetles, flies, saw-flies, ant, etc.—Chicago.
17 specimens flies, grasshoppers, saw-flies, etc.—Chicago.
21 specimens butterflies, bees, wasps, bugs—Chicago.
21 specimens grasshoppers, flies, bees, wasps—Chicago.
- SLOCOM, A. W., Field Columbian Museum.
1 bumblebee, 1 butterfly, 4 beetles—Illinois.
1 bat—Chicago.
1 wasp, 1 centipede, 1 spider, 1 ichneumon fly—Illinois.
1 velvet ant—Chicago.
- SPAULDING & CO., Chicago.
69 specimens pearl-bearing shells from Wisconsin.
1 shell showing some peculiar pearl formation—Wisconsin.
- STANFORD UNIVERSITY, California.
Collection of fishes from Brazil and Japan, comprising 100 specimens
(exchange).
- STONE, FRANK B., Chicago.
4 beetles—California.
2 beetles—Mexico.
- TIEMANN, B., Field Columbian Museum.
1 beetle—Chicago.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
1 fish—Mexico.
1 bat, 1 mouse (exchange).
2 fishes—Mexico.
1 fish—Kentucky.
- VIERECK, HENRY, Philadelphia, Pa.
2 seventeen-year bicadas.
1 nymph case of the same species.
- WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.
26 sponges, 2 corals, 1 crinoid, 1 star fish, 1 sea urchin, 7 sea cucumbers,
3 worms, 2 tunicates (exchange).
- WHITE, E. N., Chicago.
2 parasites—Chicago.
- WILLIAMSON, E. B., Salem, Ohio.
6 fishes—Ohio.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Made by Chas. J. Brand:

60 negatives, North American forestry.

Made by Geo. A. Dorsey:

126 negatives, Indians of Arizona and New Mexico.

522 negatives, Indians of Indian Territory and New Mexico.

Made by O. C. Farrington:

36 negatives, views of landscapes, etc.—Maine and New Hampshire.

- Made by J. W. Hudson:
 84 negatives, California Indians.
 144 negatives, California Indians.
- Made by S. C. Simms:
 66 negatives, of Crow Indians.
- Purchases:
 34 lantern slides on Economic Geology.

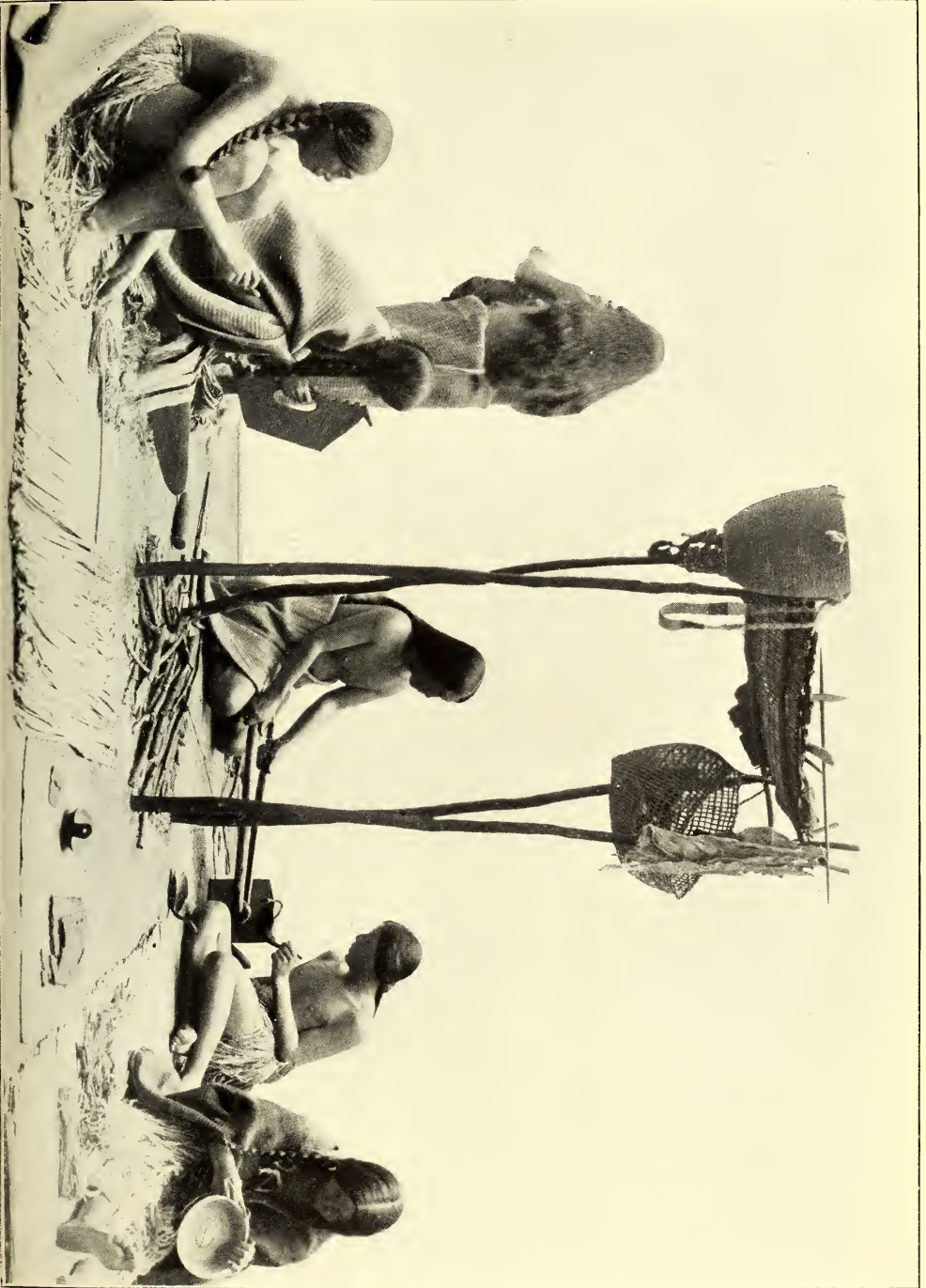
THE LIBRARY.

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Books, Pamphlets and Serials.

- ABERDEEN UNIVERSITY, MARISCHAL COLLEGE, Aberdeen, Scotland.
 1 pamphlet.
- ADAMS, C. C. (the author), Chicago, Ill.
 3 reprints.
- ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Ala.
 Bulletins, 43 back nos. and current nos. (gift).
- ALABAMA GEOLOGICAL SURVEY, University, Ala.
 Charles Mohr: Plant life of Alabama.
- AMBROSETTI, JUAN B. (the author), Buenos Aires, Argentina.
 4 reprints.
- AMERICAN ACADEMY OF ARTS AND SCIENCES, Boston, Mass.
 Proceedings, current nos.
- AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass.
 Proceedings, vol. 14, pts. 1 and 2.
- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,
 Pittsburg, Pa.
 Proceedings, Denver meeting, vol. 50.
- AMERICAN BUREAU OF GEOGRAPHY, Winona, Minn.
 Bulletin, vol. 1, nos. 1, 3 and 4, vol. 2.
- AMERICAN CHEMICAL JOURNAL, Baltimore, Md.
 Journal, current nos.
- AMERICAN FOLK-LORE SOCIETY, Cambridge, Mass.
 Journal, Nos. 54-57.
- AMERICAN FORESTRY ASSOCIATION, Washington, D. C.
 Forestry and irrigation, current nos.
- AMERICAN GEOGRAPHICAL SOCIETY, New York City.
 Bulletin, current nos.
- AMERICAN INSTITUTE OF HOMEOPATHY, New York City.
 Transactions, vol. 57, 1901.
- AMERICAN JOURNAL OF PHARMACY, Philadelphia, Pa.
 Journal, current nos.
- AMERICAN MICROSCOPICAL SOCIETY, Washington, D. C.
 Journal, current nos.
- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
 Annual report, 1901.
 Bulletin, vol. 11, pt. 4.
 Bulletin, vol. 14.
 Bulletin, vol. 15, pt. 1.
 Memoirs, vol. 3 and 6.
- AMERICAN NUMISMATIC AND ARCHÆOLOGICAL SOCIETY, New
 York City.
 Proceedings and papers, 43d and 44th meetings.

- AMERICAN ORIENTAL SOCIETY, New Haven, Conn.
 Index, vols. 1-20.
 Journal, vol. 21, pt. 1.
 Journal, vol. 22, pt. 2.
 Journal, vol. 23, pt. 1.
- AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia, Pa.
 Proceedings, vol. 40, nos. 167-169.
- AMERICAN SOAP JOURNAL, Milwaukee, Wis.
 Journal, current nos. (gift).
- AMSTERDAM. KONIGLICHE AKADEMIE VAN WETENSCHAPPEN,
 Amsterdam, Netherlands.
 Proceedings, section of sciences, vol. 3.
 Verhandelingen, vol. 7, nos. 4-6.
 Verslag, vol. 9.
- AMSTERDAM. UNIVERSITEITS BIBLIOTHEEK, Amsterdam, Netherlands
 12 inaugural dissertations.
- ANDOVER THEOLOGICAL SEMINARY, Andover, Mass.
 Catalogue, 1901-1902.
- ANDREE, RICHARD, Braunschweig, Germany.
 Globus, vols. 80 and 81.
- ANGERS. SOCIETE d'ETUDE SCIENTIFIQUES, Angers, Maine-et-Loire,
 France.
 Bulletin, vol. 30.
- ANNALES DES MINES, Paris, France.
 Annales, current nos.
- ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRE-
 LAND, London, England.
 Journal, current nos.
- ARIZONA AGRICULTURAL EXPERIMENT STATION, Tucson, Arizona.
 Annual report, 9, 10, 11, 12.
 Bulletin, current nos.
- ARKANSAS AGRICULTURAL EXPERIMENT STATION, Fayetteville,
 Arkansas.
 Bulletin, no. 36.
- ARMOUR INSTITUTE OF TECHNOLOGY, Chicago, Ill.
 Year book, 1902-03.
- ARTHUR, J. C. (the author), Lafayette, Indiana.
 4 reprints.
- ASIATIC SOCIETY OF BENGAL, Calcutta, India.
 Journal, current nos.
 Proceedings, current nos.
- ASSOCIATION OF AMERICAN ANATOMISTS, Washington, D. C.
 History, constitution, membership, and the letters and abstracts of papers,
 for the years 1888-1892.
- ASSOCIATION OF ENGINEERING SOCIETIES, Philadelphia, Pa.
 Journal, current nos.
- AUSTRALIAN MUSEUM, Sydney, Australia.
 Nests and eggs of birds found breeding in Australia and Tasmania.
 Records, current nos.
 Report of the curator, 1900.
 Report of the trustees, 1900.
- AUTOMOBILE REVIEW, Chicago, Ill.
 Journal, current nos. (gift).
- BALTIMORE AND OHIO RAILROAD CO., Baltimore, Md.
 Book of the royal blue, current nos. (gift).
- BAMBERG. NATURFORSCHENDE GESELLSCHAFT, Bamberg, Germany.
 Bericht, vol. 18.



Source: Harper's Photo-Duplex Camera. Museum of the Field Columbian Museum, Chicago.

- BARLOW, CHESTER, Santa Clara, California.
List of the land birds of Placerville, California (gift).
- BARROWS, D. P., Chicago, Ill.
1 pamphlet.
- BASEL-NATURFORSCHENDE GESELLSCHAFT, Basel, Switzerland.
Namenverzeichnis und sachregister der band 6-12.
Verhandlungen, Band 13, pt. 2 and 3.
Verhandlungen, Band 14.
- BEAN, T. H., Washington, D. C.
Report of the department of forestry and fisheries, Paris Exposition, 1900.
- BEECHER, C. E. (the author), New Haven, Conn.
5 reprints.
- BELOIT COLLEGE, Beloit, Wisconsin.
Catalogue, 1901-02.
- BERGENS MUSEUM, Bergen, Norway.
Aarbog, 1901, pt. 1 and 2.
Aarsberetning, 1901.
- BERLIN. GESELLSCHAFT FUR ERDKUNDE, Berlin, Germany.
Bibliotheca geographica, vol. 7.
Verhandlungen, current nos.
Zeitschrift, current nos.
- BERLIN. KONIGLICHE BIBLIOTHEK, Berlin, Germany.
Jahres verzeichniss der an den deutschen universitaten erscheinenden
schriften, vol. 16.
- BERLIN. K. BOTANICAL GARTEN UND MUSEUM, Berlin, Germany.
Appendix 9.
Notizblatt, no. 29.
- BERLIN. KONIGLICHE MUSEEN, Berlin, Germany.
Führer, 1901.
- BERLIN. K. MUSEUM FUR VOLKERKUNDE, Berlin, Germany.
Ethnologische notizblatt, current nos.
- BERLIN. K. PREUSSISCHE AKADEMIE DER WISSENSCHAFTEN,
Berlin, Germany.
Sitzungsberichte, current nos.
- BERLINER GESELLSCHAFT FUR ANTHROPOLOGIE, Berlin, Germany.
Zeitschrift fur ethnologie, current nos.
- BERN. HOCHSCHUL BIBLIOTHEK, Bern, Switzerland.
32 inaugural dissertations.
- BERNICE PAUCHI BISHOP MUSEUM, Honolulu, Hawaii.
Fauna Hawaiiensis, vol. 3, pt. 1.
Memoirs, vol. 1, no. 3.
Occasional papers, vol. 1, nos. 3 and 4.
- BERTONI, M. S. (the author), Asuncion, Paraguay.
Aves nuevas del Paraguay (gift).
- BIXBY, MAYNARD (the author), Salt Lake City, Utah.
Utah minerals and localities (gift).
- BLACK DIAMOND COMPANY, Chicago, Ill.
Black diamond, current nos. (gift).
- BOMBAY PRESIDENCY. DEPARTMENT OF LAND RECORDS AND
AGRICULTURE, Bombay, India.
Crop experiments report, 1899-1900, 1900-1901.
- BORDEAUX. SOCIETE LINNEENNE, Bordeaux, France.
Proces-verbaux, 1901.
- BOSTON BOOK COMPANY, Boston, Mass.
Bulletin, current nos. (gift).
- BOSTON MUSEUM OF FINE ARTS, Boston, Mass.
Annual report, 26.

- BOSTON PUBLIC LIBRARY, Boston, Mass.
Annual list of new and important books, 1900-1901.
Monthly bulletin, current nos.
- BOSTON SOCIETY OF NATURAL HISTORY, Boston, Mass.
Proceedings, current nos.
- BOSTON TRANSIT COMMISSION, Boston, Mass.
Annual report, 7th, 1901.
- BOSTON UNIVERSITY, Boston, Mass.
President's annual report, 1901.
Yearbook, vol. 28.
- BOTANICAL SOCIETY OF AMERICA, New York City.
Publication, 18 (gift).
- BOUCARD, A. (the author), Oak Hill, Spring Vale, Isle of Wight.
Catalogus avium.
Genera of humming birds.
The Humming Bird, vols. 1-5.
Travels of a naturalist.
35 pamphlets.
1 photograph.
- BOWDITCH, C. P. (the author), Boston, Mass.
2 reprints.
- BOWDOIN COLLEGE, Brunswick, Me.
Catalogue, 1901-02.
President's report, 1901-02.
- BRISTOL MUSEUM AND REFERENCE LIBRARY, Bristol, England.
Report, 1901.
- BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,
London, England.
Report, 1901.
- BRITISH COLUMBIA GOVERNMENT PRINTING OFFICE, Victoria, B. C.
Sessional papers, 1901.
Statutes of British Columbia, 1901, 1902 (gift).
- BRITISH MUSEUM (NATURAL HISTORY), London, England.
Catalogue of African plants, vol. 1, pt. 4.
Catalogue of African plants, vol. 2, pt. 2.
- BROOKLYN INSTITUTE OF ARTS AND SCIENCES, Brooklyn, N. Y.
Prospectus, 1901-1902, 1902-1903.
Yearbook, 1808-1899, 1899-1900, 1900-1901.
- BROWN UNIVERSITY, Providence, R. I.
Annual report, 1901-02.
- BRUXELLES. ACADEMIE ROYAL DE BELGIQUE, Bruxelles, Belgium.
Annuaire, 1902.
Bulletin, 1901.
- BRUXELLES. INSTITUTE GEOGRAPHIQUE, Bruxelles, Belgium.
Publications, nos. 2-7 (gift).
- BRUXELLES. SOCIETE D'ARCHEOLOGIE, Bruxelles, Belgium.
Annuaire, 1901, vol. 13.
- BRUXELLES. SOCIETE ROYALE LINNÉENNE, Bruxelles, Belgium.
Bulletin, current nos.
- BRYN MAWR COLLEGE, Bryn Mawr, Pa.
Program, 1901-02.
- BUFFALO PUBLIC LIBRARY, Buffalo, N. Y.
Annual report, 1901.
- BUITENZORG. L'INSTITUTE BOTANIQUE, Buitenzorg, Java.
Bolletijn, no. 13.
- BUENOS AIRES. MUSEO NACIONAL, Buenos Aires, Argentina.
Comunicaciones, current nos.
- BUSSEY INSTITUTION, Jamaica Plain, Mass.
Bulletin, vol. 3, pt. 2.

- CALIFORNIA ACADEMY OF SCIENCES. San Francisco, Cal.
Proceedings, current nos.
- CALIFORNIA AGRICULTURAL EXPERIMENT STATION, Berkeley, Cal.
Bulletin, 46 back nos. and current nos.
Natural study bulletin.
Report, 1898-1901.
- CALIFORNIA STATE LIBRARY, Sacramento, Cal.
Bulletin, current nos.
- CALIFORNIA UNIVERSITY, Berkeley, Cal.
Bulletin of the Dep't of Geology, vol. 2, Nos. 10, 11 and 12.
University chronicle, current nos.
- CAMBRIDGE PUBLIC LIBRARY, Cambridge, Mass.
Annual report, 1901.
Bulletin, current nos.
- CAMBRIDGE UNIVERSITY-MUSEUM OF ZOOLOGY, Cambridge, England.
Annual report of the Museum and Lecture Room Syndicate, 1866-1868,
1871-1874, 1877-1894, 1901-02.
Catalogue of Strickland collection of birds.
- CANADA DEPARTMENT OF MARINE AND FISHERIES, Ottawa, Canada.
Annual report, 33d.
- CANADA GEOLOGICAL SURVEY, Ottawa, Canada.
Annual report, 1898.
Catalogue of Canadian birds pt. 1.
Index to reports of the Geological Survey, 1863-1884.
- CANADIAN INSTITUTE, Toronto, Canada.
Archæological report, 1900, 1901.
- CAPE GOVERNMENT HERBARIUM, Cape Town, South Africa.
Report of the botanist, 1901.
- CAPE TOWN GEOLOGICAL COMMISSION, Cape Town, South Africa.
Annual report, 1898-99.
- CAPITAN, L., Paris, France.
1 reprint.
- CARNEGIE INSTITUTE, DEPARTMENT OF FINE ARTS, Pittsburg, Pa.
Sixth annual exhibit, 1901.
- CARNEGIE LIBRARY, Pittsburg, Pa.
Annual report, 6th.
- CARNEGIE MUSEUM, Pittsburg, Pa.
Annales, vol. 1, nos. 1 and 2.
Memoirs, vol. 1, no. 1.
Prize essay contest, 1900.
Report of the Director, 1900-01.
- CARPENTER, GEORGE H., Dublin, Ireland.
Irish naturalist, current nos.
- CATHOLIC UNIVERSITY OF AMERICA, Washington, D. C.
Bulletin, vol. 1-4 and current nos.
- CHAVERO, ALFREDO, Mexico, Mex.
La Piedra del Sol.
- CHICAGO ACADEMY OF SCIENCES, Chicago, Ill.
Historical sketch of the Academy.
- CHICAGO ART INSTITUTE, Chicago, Ill.
Annual report, 23d.
Catalogue of the fourteenth annual exhibition by American artists.
General catalogue of paintings, sculptures and other objects of art in the
Museum, 1901.
6 other catalogues.
- CHICAGO HISTORICAL SOCIETY, Chicago, Ill.
Report of annual meeting, November 19, 1901.
- CHICAGO LIBRARY CLUB, Chicago, Ill.
A list of serials in public libraries of Chicago and Evanston (gift).

- CHICAGO PUBLIC LIBRARY, Chicago, Ill.
 Annual report, 29th.
 Bulletin nos. 55-58.
 Catalogue—English prose and juvenile books.
 Finding list, history and biography.
 Special bulletin, nos. 2 and 3.
- CHICAGO UNIVERSITY, Chicago, Ill.
 Announcements, vol. 2, no. 2.
 Botanical gazette, current nos.
 Journal of geology, current nos.
 Register, 1901-02.
 2 reprints.
- CHICKERING & SONS, Boston, Mass.
 1 catalogue (gift).
- CHILE COMMISSION TO THE PAN-AMERICAN EXPOSITION, Buffalo, New York.
 Brief notes on Chile and general catalogue of the Chile exhibit at the Pan-American Exposition, Buffalo, 1901.
 8 pamphlets.
- CINCINNATI MUSEUM ASSOCIATION, Cincinnati, Ohio.
 Annual report, 21st.
- CINCINNATI NATURAL HISTORY SOCIETY, Cincinnati, Ohio.
 Journal, vol. 20, nos. 1 and 2.
- CINCINNATI PUBLIC LIBRARY, Cincinnati, Ohio.
 Annual list of books added during 1901.
 Annual reports, 1901-02.
 Finding list of English prose fiction.
 Leaflet, current nos.
 Quarterly bulletin, current nos.
- CLAUSTHAL. KONIGLICHE BERGAKADEMIE, Clausthal, Germany.
 Programm, 1902-03.
- CLEVELAND PUBLIC LIBRARY, Cleveland, Ohio.
 Annual report, 33d.
 Open shelf, current nos.
- COHEN, E., Greifswald, Germany.
 3 reprints.
- COLBY COLLEGE, Waterville, Maine.
 Bulletin, vol. 1, no. 3.
- COLLIERY ENGINEER COMPANY, Scranton, Pa.
 Mines and minerals, current nos.
- COLLINGE, W. E., Birmingham, England.
 2 reprints.
- COLORADO AGRICULTURAL EXPERIMENT STATION, Fort Collins, Colorado.
 Annual report, 4, 6-11, 13.
 Bulletin, current nos.
- COLORADO BUREAU OF MINES, Denver, Colorado.
 Bulletin, no. 5.
- COLORADO STATE SCHOOL OF MINES, Golden, Colorado.
 Catalogue, 1900-01.
- COLORADO UNIVERSITY, Boulder, Colorado.
 Studies, vol 1, no. 1.
- COLUMBIA UNIVERSITY, New York City.
 Catalogue, 1901-02.
 Quarterly, current nos.
- CONNECTICUT AGRICULTURAL EXPERIMENT STATION, New Haven, Connecticut.
 Annual report, 25th.
 Bulletin, 29 back nos. and current nos.

- CONNECTICUT COMMISSION OF FISHERIES AND GAME, Hadlyme, Connecticut.
Fish and game laws for 1901.
- COOPER ORNITHOLOGICAL CLUB, Santa Clara, California.
Pacific Coast avifauna, no. 3.
The Condor, vol. 1, nos. 2, 4, 6, vol. 2 and 3, and current nos.
- COOPER UNION, New York City.
Annual report, 43d.
- COPENHAGEN UNIVERSITY MUSEUM, Copenhagen, Denmark.
Beretning, 1901.
Communications paleontologiques, nos. 1 and 2.
1 pamphlet.
- CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION, Ithaca, New York.
Bulletin, current nos.
Report, 1898-1900 (gift).
- COSTA RICA INSTITUTO FISICO-GEOGRAFICO NACIONAL, San Jose, Costa Rica.
Bulletin, current nos.
- CUDMORE, P., Faribault, Minn.
1 pamphlet (gift).
- CZERNOWITZ, K. K. FRANZ-JOSEPHS-UNIVERSITÄT, Czernowitz, Austria.
Uebersicht der akademischen behorden, 1902-03.
Verzeichnis der öffentlichen vorlesungen, 1902-03.
2 catalogues.
1 pamphlet.
- DARTMOUTH COLLEGE, Hanover, N. H.
Catalogue, 1900-01, 1901-02.
- DAVENPORT ACADEMY OF SCIENCES, Davenport, Iowa.
Proceedings, vol. 8.
- DELAWARE AGRICULTURAL EXPERIMENT STATION, Newark, Del.
Annual reports, 4-13.
Bulletin, current nos.
- DETROIT MUSEUM, Detroit, Mich.
Annual report, 1901.
- DETROIT PUBLIC LIBRARY, Detroit, Mich.
Annual report, 37th.
Bulletin, no. 13.
- DEUTSCHE GEOLOGISCHE GESELLSCHAFT, Berlin, Germany.
Zeitschrift, current nos.
1 pamphlet.
- DEUTSCHE GESELLSCHAFT FÜR NATUR UND VOLKERKUNDE OSTASIENS, Tokio, Japan.
Festschrift, 25 jährige stiftungsfest.
Mittheilungen, vol. 8, pt. 3.
Mittheilungen, supplement.
- DIAL PUBLISHING COMPANY, Chicago, Ill.
The Dial, current nos. (gift).
- DIXON, R. B. (the author), New York City.
Basketry designs of the Indians of Northern California.
3 pamphlets.
- DRESDEN. K. SAMMLUNGEN FÜR KUNST UND WISSENSCHAFT, Dresden, Germany.
Bericht, 1898-99.
- DRESDEN. K. ZOOLOGISCHES UND ANTHROPOLOGISCH-ETHNOGRAPHISCHES MUSEUMS, Dresden, Germany.
Studies, pt. 2.

- DREW THEOLOGICAL SEMINARY, Madison, N. J.
 List of the alumni, etc., 1902.
 Report of the librarian, 1901-02.
 Year book, 1901-'02.
- DRUGS, OILS AND PAINTS, Philadelphia, Pa.
 Journal, current nos. (gift).
- DUNCAN, C. H. (the author), Philadelphia, Pa.
 1 pamphlet (gift).
- EAST KENT SCIENTIFIC AND NATURAL HISTORY SOCIETY, Canterbury, Kent, England.
 Report and transactions, 1901.
- EDINBURGH MUSEUM OF SCIENCE AND ART, Edinburgh, Scotland.
 Guide to collections of the Geological Survey, pt. 1.
 Report, 1901.
- EIGENMANN, C. H. (the author), Bloomington, Ind.
 Report from the biological station.
 4 reprints.
- ELECTRICAL ENGINEERING PUBLISHING COMPANY, Chicago, Ill.
 Telephone magazine, current nos. (gift).
- ELISHA MITCHELL SCIENTIFIC SOCIETY, Chapel Hill, N. C.
 Journal, vol. 17, pts. 1 and 2.
- ELROD, M. J., Missoula, Montana.
 1 reprint.
- ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA, Pittsburg, Pa.
 Proceedings, current nos.
- ENOCH PRATT FREE LIBRARY, Baltimore, Md.
 Annual report, 17th.
 Bulletin, current nos.
- ESSEX INSTITUTE, Salem, Mass.
 Annual report, 1902.
 Historical collections, vol. 38, nos. 1-3.
- EVANS, A. W., New Haven, Conn.
 The lejeuneæ of the United States and Canada.
 2 reprints.
- EVANSTON FREE PUBLIC LIBRARY, Evanston, Ill.
 Annual report, 28th, 1900-01.
- FERNALD, M. L. (the author), Cambridge, Mass.
 The northeastern carices of the section hyparrhenæ.
 3 reprints.
- FESSENDEN, R., Washington, D. C.
 1 pamphlet.
- FIELD COLUMBIAN MUSEUM, Chicago, Ill.
 10 publications.
 Purchases:
 87 books.
 9 pamphlets.
 65 periodicals.
- FISHER, A. K., Washington, D. C.
 1 reprint.
- FLORIDA AGRICULTURAL EXPERIMENT STATION, Lake City, Fla.
 Bulletin, nos. 4, 9-13, 16, 17, 19 and current nos.
- FOREST AND STREAM PUBLISHING COMPANY, Chicago, Ill.
 Forest and stream, current nos.
- FORSTEMANN, E. (the author), Charlottenburg, Germany.
 2 reprints.
- FRANKLIN INSTITUTE, Philadelphia, Pa.
 Journal, current nos.

- FREIBERG. K. SACHS. BERGAKADEMIE, Freiberg, Germany.
 Programm, 1902-03.
- FREIBURG. NATURFORSCHENDE GESELLSCHAFT, Freiburg, Germany.
 Bericht, vol. 12.
- FRIEDLANDER, R. AND SOHN, Berlin, Germany.
 Naturæ novitates, current nos.
- FRITSCH, CARL (the author), Wien, Austria.
 Schedæ ad floram exsecatam Austro-Hungaricam.
- FÜRBRINGER, MAX (the author), Heidelberg, Germany.
 1 reprint.
- GAMBA, F. P., Bogota, Colombia, S. A.
 Riqueza mineral de la Republica de Colombia (gift).
- GENÈVE. CONSERVATOIRE AND JARDIN BOTANIKES, Geneva, Switzerland.
 Annuaire, 1900.
- GENÈVE. SOCIETE DE PHYSIQUE ET D'HISTOIRE NATURELLE, Geneva, Switzerland.
 Memoires, vol. 33, no. 2.
 Memoires, vol. 34, nos. 1 and 2.
- GEOLOGICAL SOCIETY OF AMERICA, Rochester, N. Y.
 Bulletin, current nos.
- GEORGIA EXPERIMENT STATION, Experiment, Georgia.
 Annual reports, 1-8, 10-14.
 Bulletin, current nos. (gift).
- GHIZEH ZOOLOGICAL GARDENS, Cairo, Egypt.
 Report, 1901.
- GIESSEN. GROSSH. HESSISCHE LUDWIGS UNIVERSITÄT, Giessen, Germany.
 3 inaugural dissertations.
- GÖTTINGEN. K. GEORG-AUGUST-UNIVERSITÄT, Göttingen, Germany.
 Chronik, 1900.
 Verzeichnis des personals etc., 1901-02.
 Verzeichnis der vorlesungen, sommer, 1902.
 Verzeichnis der vorlesungen, winter, 1902-03.
 62 inaugural dissertations.
- GOULD, I. C. (the author), London, England.
 Early defensive earthworks (gift).
- GRATZ. STYRIA NATURWISSENSCHAFTLICHEN VEREIN FÜR STEIERMARK, Gratz-Styria, Austria.
 Mittheilungen, 1901.
- GREGG, W. H. (the author), St. Louis, Mo.
 Where, when, and how to catch fish on the east coast of Florida (gift).
- GREENE, E. L., Washington, D. C.
 Pittonia, vols. 1 and 2.
 Pittonia, vol. 3, pts. 13 and 14, and current nos.
- GRENADA BOTANIC GARDEN, St. George, West Indies.
 Annual report, 1900.
- GROSVENOR LIBRARY, BUFFALO, N. Y.
 Catalogue of poetry.
- HAARLEM. STADS BIBLIOTHEEK, Haarlem, Netherlands.
 Verslag van den toestand, 1901.
- HAMBURG. NATURHISTORISCHES MUSEUM, Hamburg, Germany.
 Mittheilungen, vol. 18.
- HAMILTON SCIENTIFIC ASSOCIATION, Hamilton, Ontario.
 Journal and proceedings, vol. 17.
- HAMY, E. T. (the author), Paris, France.
 3 reprints.

- HANCOCK, J. L. (the author), Chicago, Ill.
The tettigidae of North America (gift).
- HANNOVER. GEOGRAPHISCHE GESELLSCHAFT, Hannover, Germany.
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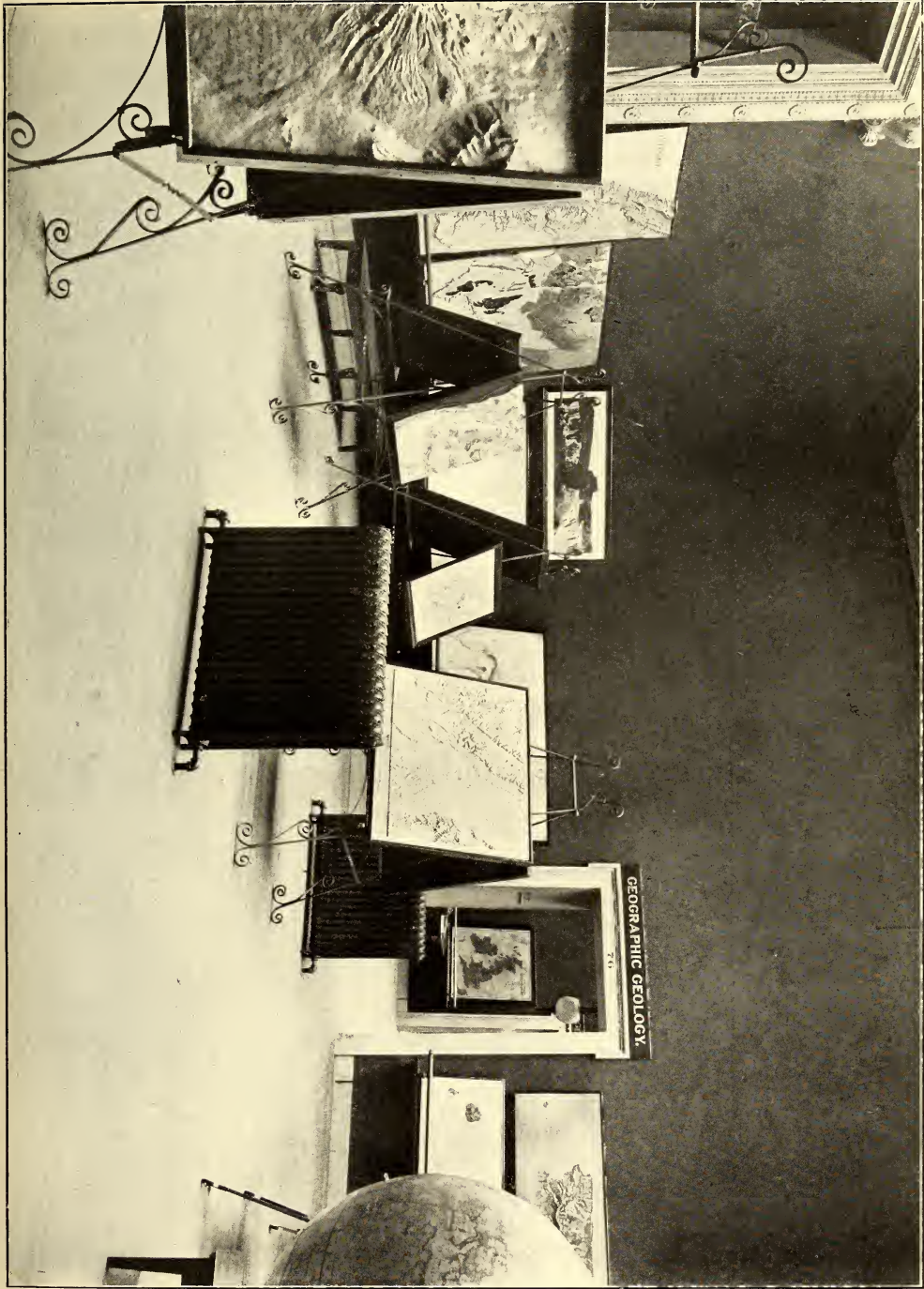
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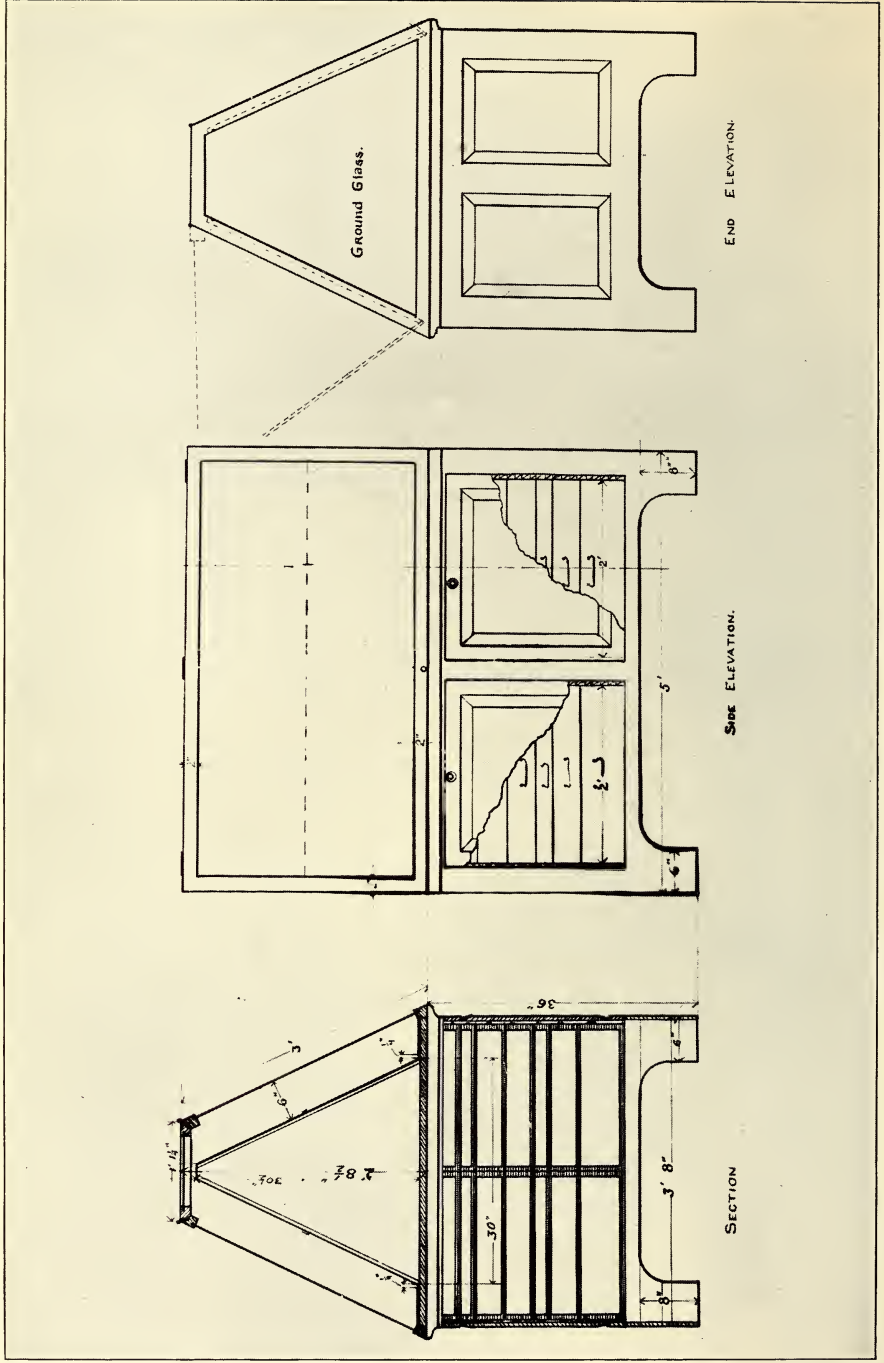
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ARTICLES OF INCORPORATION.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSEN, *Secretary of State*:

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, Therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archeology, Science and History.

3. The management of the aforesaid Museum shall be vested in a board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(*Signed*),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaas, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, Geo. M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS, }
 COOK COUNTY. } *ss.*

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26th, 1894, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS.

(JANUARY 29, 1900.)

ARTICLE I.

MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons and Honorary Members.

SEC. 2. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of annual membership.

This said annual membership shall entitle the member to:

First.—Free admittance for himself and family to the Museum on any day.

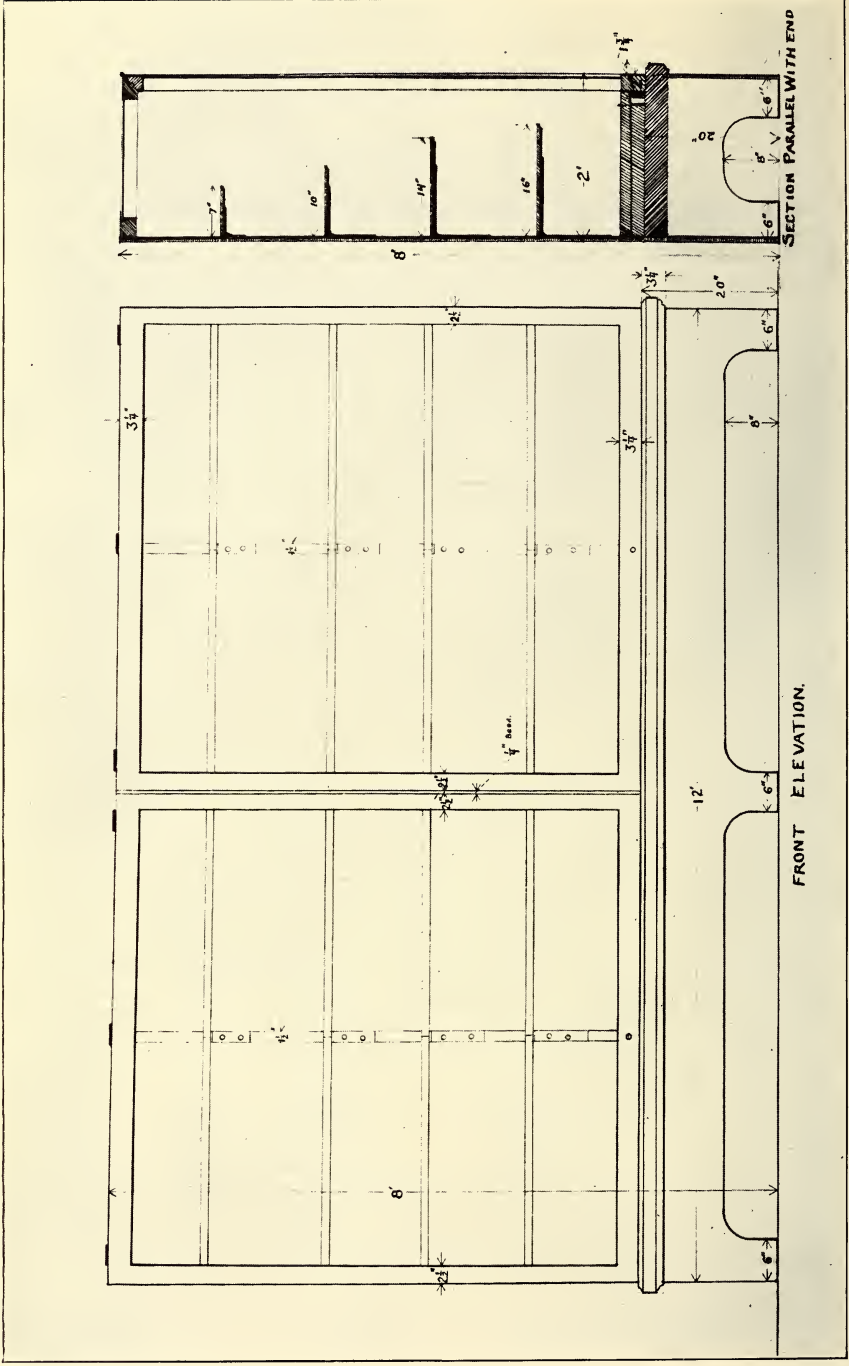
Second.—Ten tickets every year admitting the bearer to the Museum on pay days.

Third.—A copy of every publication of the Museum sold at the entrance door, and to the Annual Reports.

Fourth.—Invitations to all receptions, lectures or other entertainments which may be given at the Museum.

SEC. 3. The Corporate Members shall consist of the persons named in the articles of association, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of association shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members, shall, within ninety days of their respective election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. The annual dues of Corporate Members shall be five dollars (\$5.00) after the first year of membership, and no one shall exercise the rights of a Corporate Member until his dues are paid; and a delinquency of six months in the payment of annual dues shall be ground for forfeiture of corporate membership. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars at any one time shall, upon the unanimous vote of the Trustees, become a Life Member. Life Members shall be exempt from all dues.



SEC. 5. Patrons shall be chosen by the Board of Trustees, upon recommendation of the Executive Committee, from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SEC. 6. Honorary Members shall be chosen from among persons who have rendered eminent service to science, art or mechanics. They shall be chosen by a vote of the Trustees, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues. In commemoration of the 14th day of October, Honorary Members shall not be more than fourteen in number at any one time.

SEC. 7. All members of whatever class shall be eligible to appointment upon committees other than the Executive Committee.

ARTICLE II.

OFFICERS.

SECTION 1. The respective members of the Board of Trustees now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board of Trustees at any regular meeting.

SEC. 2. The other officers shall be President, two Vice-Presidents, Secretary and Treasurer, and an Executive Committee of four persons, who shall be chosen by ballot by the Board of Trustees from their own number as early as practicable after the annual meeting in each year. The President shall be *ex-officio* a member of the Executive Committee and Chairman thereof, in addition to the other four members. The Secretary and Treasurer may, or may not, be the same person, and the Secretary may, or may not, be a Corporate Member.

Any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The President shall appoint from among the Trustees a Committee on Finance, a Committee on Property, an Auditing Committee, and a Committee on Buildings and Grounds, who shall serve during the pleasure of the Board.

SEC. 4. The officers shall perform such duties as ordinarily appertain to their respective offices, and such other duties as the Board of Trustees may from time to time devolve upon them. The Treasurer shall give bond in such amount and with such surety as shall be approved by the Executive Committee, and shall disburse the funds of the Museum only in accordance with the directions of the Executive Committee, upon the signature and counter-signature of such officers as the Executive Committee shall empower thereto.

SEC. 5. The Executive Committee shall have full control of the affairs of the Museum, under the general supervision of the Board of Trustees.

ARTICLE III.

MEETINGS.

SECTION 1. In commemoration of the discovery of America by Christopher Columbus, the annual meeting of the Corporate Members shall be held on the 14th day of October in each year, except when that day falls on a Sunday, and then

upon the Monday following. At such meetings the Corporate Members shall transact such business as may properly come before the meeting. Special meetings of the Corporate Members shall be called at any time by the Secretary upon written request of twenty Corporate Members. In such case, thirty days' notice by mail shall be given to Corporate Members of the time, place and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the 14th day of October, except when that day falls on a Sunday, and then upon the Monday following, and upon the last Monday of January, April and July of each year. Special meetings may be called by the President at any time upon reasonable notice by mail, and shall be called upon the written request of three Trustees. Five Trustees shall constitute a quorum, but meetings may be adjourned by any less number from day to day or to a day fixed.

ARTICLE IV.

AMENDMENTS.

SECTION 1. These By-Laws may be amended at any regular meeting of the Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at the last regular meeting preceding, or shall be recommended by the Executive Committee.

HONORARY MEMBERS.

EDWARD E. AYER

HARLOW N. HIGINBOTHAM

CHARLES B. CORY

DECEASED.

MARY D. STURGES

PATRONS.

ALLISON V. ARMOUR

FREDERICK W. PUTNAM

WILLIAM I. BUCHANAN

FREDERICK J. V. SKIFF

WILLARD A. SMITH

CORPORATE MEMBERS.

- | | |
|--------------------------|------------------------|
| ADAMS, GEORGE E. | HIGINBOTHAM, H. N. |
| ALDIS, OWEN F. | HUTCHINSON, CHARLES L. |
| ARMOUR, ALLISON V. | JONES, ARTHUR B. |
| AYER, EDWARD E. | KEITH, E. G. |
| BAKER, WILLIAM T. | KOHLSAAT, HERMAN H. |
| BARTLETT, A. C. | LATHROP, BRYAN |
| BLACK, JOHN C. | LEITER, L. Z. |
| BLAIR, WATSON F. | McCAGG, E. B. |
| BLATCHFORD, ELIPHALET W. | McCONNELL, JOHN |
| BUCHANAN, W. I. | McCORMICK, CYRUS H. |
| BUCKINGHAM, EBENEZER | McNALLY, ANDREW |
| BURNHAM, DANIEL H. | MANIERRE, GEORGE |
| BUTLER, EDWARD B. | MITCHELL, JOHN J. |
| CHALMERS, W. J. | PATTERSON, ROBERT W. |
| CHATFIELD-TAYLOR, H. C. | PECK, FERD. W. |
| CLARK, JOHN M. | PUTNAM, FREDERICK W. |
| CURTIS, WILLIAM E. | REAM, NORMAN B. |
| EASTMAN, SIDNEY C. | RYERSON, MARTIN A. |
| ELLSWORTH, JAMES W. | SCHNEIDER, GEORGE |
| FITZSIMONS, CHARLES | SKIFF, F. J. V. |
| GAGE, LYMAN J. | SMITH, BYRON L. |
| GETTY, HENRY H. | SMITH, WILLARD A. |
| GUNSAULUS, FRANK W. | SPRAGUE, A. A. |
| GUNTHER, C. F. | STOCKTON, JOSEPH |
| HARPER, WILLIAM R. | STONE, MELVILLE E. |
| HATCH, AZEL F. | WALKER, EDWIN |
| HEAD, FRANKLIN H. | WALSH, JOHN R. |

DECEASED.

- | | |
|------------------------|--------------------|
| ARMOUR, PHILIP D. | McCLURG, A. C. |
| BISELL, GEORGE F. | PEARCE, J. IRVING |
| CRAWFORD, ANDREW | PETERSON, ANDREW |
| DAVIS, GEORGE R. | PULLMAN, GEORGE M. |
| HALE, WILLIAM E. | SCOTT, JAMES W. |
| JACKSON, HUNTINGTON W. | WALLER, R. A. |
| WILLIAMS, NORMAN | |

LIFE MEMBERS.

By the payment of five hundred dollars.

- | | |
|-------------------------|-------------------------|
| ADAMS, GEORGE E. | KING, JAMES C. |
| ALDIS, OWEN F. | KIRK, WALTER RADCLIFFE |
| BLAIR, CHAUNCEY J. | LAWSON, VICTOR F. |
| BARTLETT, A. C. | McCORMICK, MRS. |
| BARRETT, MRS. A. D. | McCORMICK, CYRUS H. |
| BARRETT, ROBERT L. | McCORMICK, HAROLD F. |
| BARRETT, S. E. | McNALLY, ANDREW |
| BOOTH, W. VERNON | MacVEAGH, FRANKLIN |
| BURNHAM, D. H. | MITCHELL, J. J. |
| BUTLER, EDWARD B. | MURDOCH, THOMAS |
| CARTER, JAMES S. | NEWELL, A. B. |
| CARTON, L. A. | ORR, ROBERT M. |
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| COOPER, FRANK H. | PIKE, EUGENE S. |
| CRANE, R. T. | PORTER, GEORGE T. |
| DEERING, CHARLES | PORTER, H. H. |
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| FULLER, WILLIAM A. | RUSSELL, EDMUND A. |
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| GRISCOM, CLEMENT A. | RYERSON, MARTIN A. |
| GROMMES, JOHN B. | SCHLESINGER, LEOPOLD |
| HAMILL, ERNEST A. | SCHNEIDER, GEORGE |
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| HIBBARD, W. G. | SEAVERNS, GEORGE A. |
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| HUGHITT, MARVIN | SMITH, BYRON L. |
| HUTCHINSON, C. L. | SMITH, ORSON |
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| ISHAM, MRS. KATHERINE | SPRAGUE, OTHO S. A. |
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| JOHNSON, MRS. ELIZABETH | THORNE, GEORGE R. |
| JONES, ARTHUR B. [AYER | TREE, LAMBERT |
| KEITH, ELBRIDGE G. | WELLING, JOHN C. |
| KIMBALL, W. W. | WELLS, M. D. |
| KING, FRANCIS | WILLARD, ALONZO J. |
| | WOLFF, LUDWIG |

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- ADAMS, CYRUS H.
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 BARNHART, ARTHUR M.
 BARRELL, JAMES
 BATCHELLER, W.
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 BROWN, WILLIAM L.
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 KIMBALL, MRS. MARK
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 KOEHLER, THOMAS N.

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 LAFLIN, GEORGE H.
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 LEIGH, EDWARD B.
 LEITER, JOSEPH
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 LINN, W. R.
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 LYON, THOMAS R.
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McCREA, W. S.
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 McWILLIAMS, LAFAYETTE
 McFARLAND, HENRY J.
 MAGEE, HENRY W.
 MANSON, WILLIAM
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 MARSHALL, GEORGE E.
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 MAYER, DAVID
 MAYER, LEVY
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 MERRYWEATHER, GEORGE
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 MILLER, CHARLES P.
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 MILLER, THOMAS
 MIXER, C. H. S.
 MOORE, L. T.
 MOORE, N. G.
 MORRIS, EDWARD
 MORRIS, IRA
 MORRIS, NELSON
 MORRISSON, JAS. W.
 MULLIKEN, A. H.
 MULLIKEN, CLARENCE H.

NATHAN, ADOLOPH
 NOLAN, JOHN H.
 NORTON, O. W.
 NOYES, LA VERNE W.

OEHNE, THEODORE
 ORB, JOHN A.
 ORTSEIFEN, ADAM
 OSBORN, HENRY A.

PALMER, MILTON J.
 PALMER, PERCIVAL B.
 PARKER, FRANCIS W.
 PATTERSON, W. R.
 PEARSON, EUGENE H.
 PECK, CLARENCE I.
 PECK, GEORGE R.
 PERRY, LEWIS S.
 PETERS, HOMER H.
 PETERSEN, GEORGE L.
 PETERSON, WM. A.
 PIETSCH, C. F.
 PINKERTON, W. A.
 POND, IRVING K.
 POPE, MRS. CHARLES B.
 PORTER, WASHINGTON.

RABER, P. W.
 RANDALL, THOMAS D.
 RAYNER, JAMES B.
 REHM, JACOB
 REID, W. H.
 REW, HENRY C.
 RIPLEY, E. P.
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 ROSENFELD, MAURICE
 ROSENTHAL, MRS. OSCAR
 RUMSEY, GEORGE D.
 RUNNELLS, J. S.
 RYERSON, MRS. MARTIN

SCHAFFNER, JOSEPH
 SCHMIDT, DR. O. L.
 SCHMITT, ANTHONY
 SCHWARTZ, G. A.
 SEARS, JOSEPH
 SEIPP, MRS. C.
 SEIPP, W. C.
 SELFRIDGE, HARRY G.
 SELLERS, FRANK H.
 SELZ, MORRIS
 SHEDD, JOHN G.
 SHERWOOD, H. M.
 SHIPMAN, DANIEL B.
 SHORTALL, JOHN G.
 SKINNER, THE MISSES
 SMITH, F. B.
 SMITH, JOHN C.
 SNOW, MISS HELEN E.
 SOPER, JAMES P.

SOUTHWELL, H. E.
 SPENCE, MRS. ELIZABETH E.
 SPOOR, J. A.
 STANLEY, FRANK W.
 STEELE, HENRY B.
 STOCKTON, JOHN T.
 STUART, ROBERT
 SWIFT, G. F.

TEMPLETON, THOMAS
 TILTON, MRS. L. J.
 TOBEY, FRANK B.
 TRIPP, C. E.
 TRUDE, A. S.
 TRUMBULL, PERRY
 TURNER, E. A.

UIHLEIN, EDWARD G.
 UNZICKER, OTTO

VIERLING, ROBERT

WACKER, CHARLES H.
 WALKER, GEORGE C.
 WALKER, JAMES R.
 WALKER, WILLIAM B.
 WALLER, EDWARD C.
 WARNER, EZRA J.
 WEBSTER, GEORGE H.
 WELLS, B. D.
 WHEELER, MRS. CHARLES W.
 WHITE, A. STAMFORD
 WHITEHEAD, W. M.
 WHITEHOUSE, FRANCIS M.
 WICKES, T. H.
 WILLIAMS, SIMEON B.
 WILLING, MRS. HENRY J.
 WILSON, E. C.
 WILSON, M. H.
 WINK, HENRY
 WOLF, FRED. W.
 WOOD, S. E.
 WOODCOCK, LINDSAY T.
 WOOSTER, CLARENCE K.

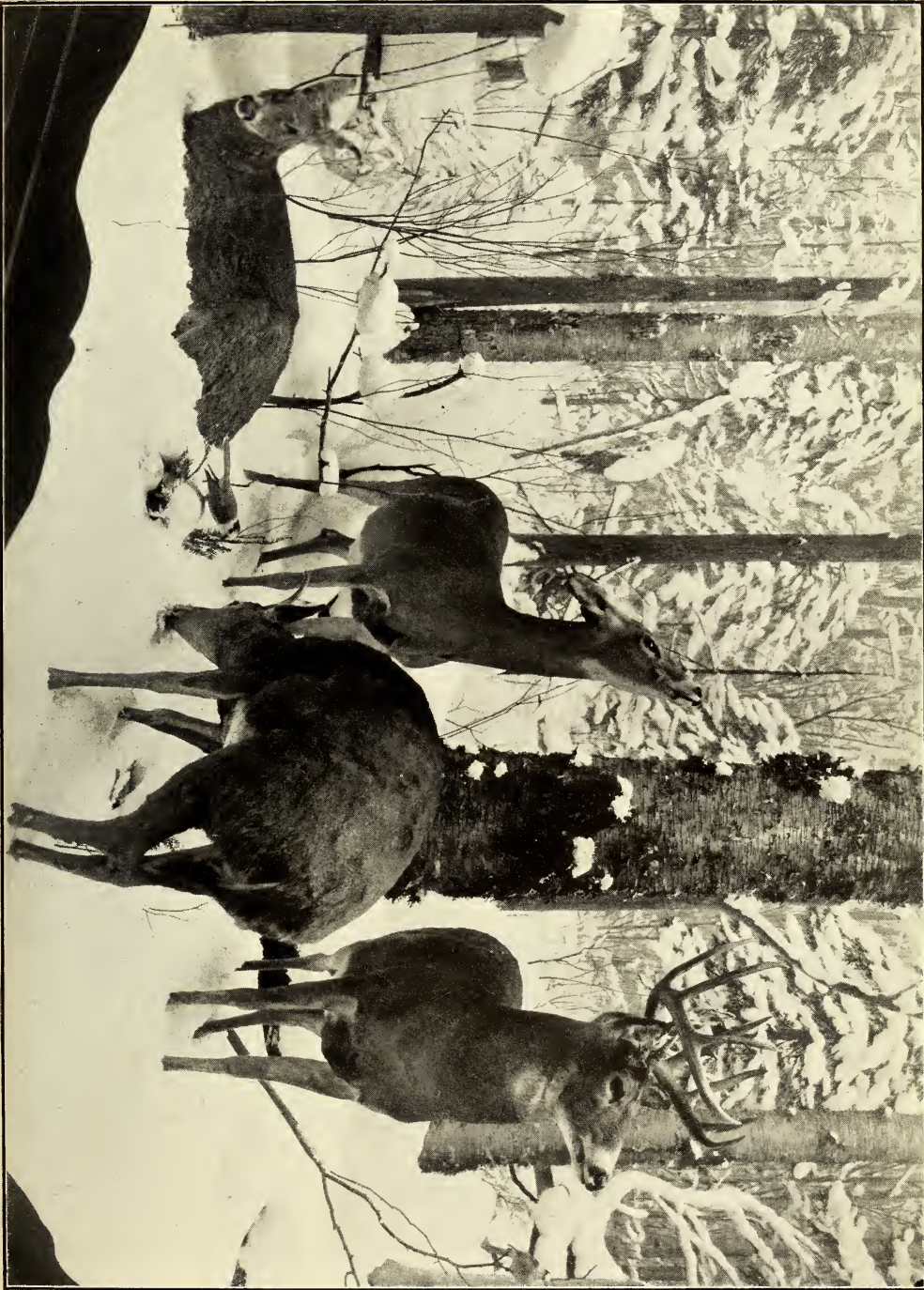
YERKES, CHARLES T.

DECEASED.

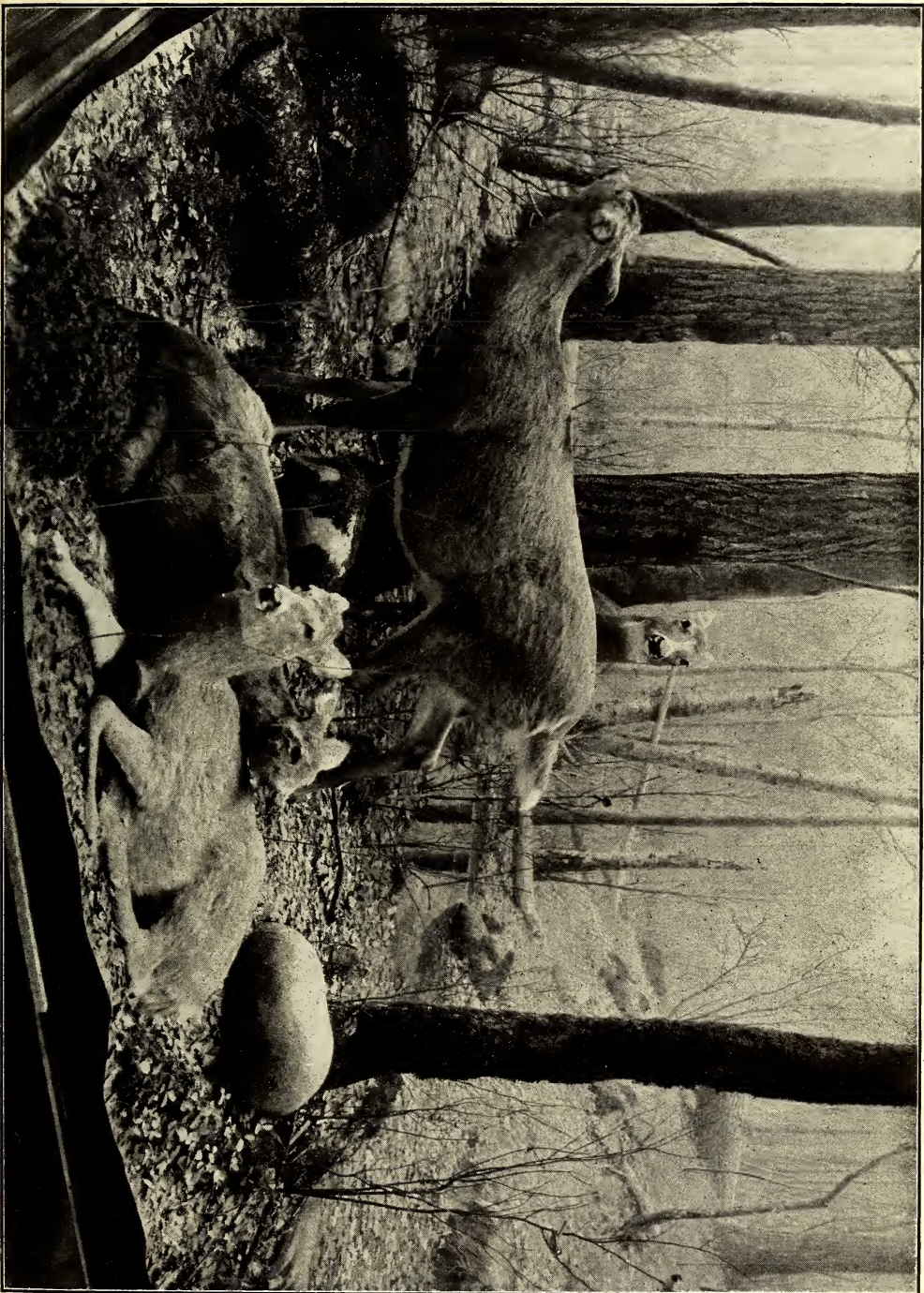
BOOTH, A.
 CLARK, JONATHAN
 ISHAM, E. S.







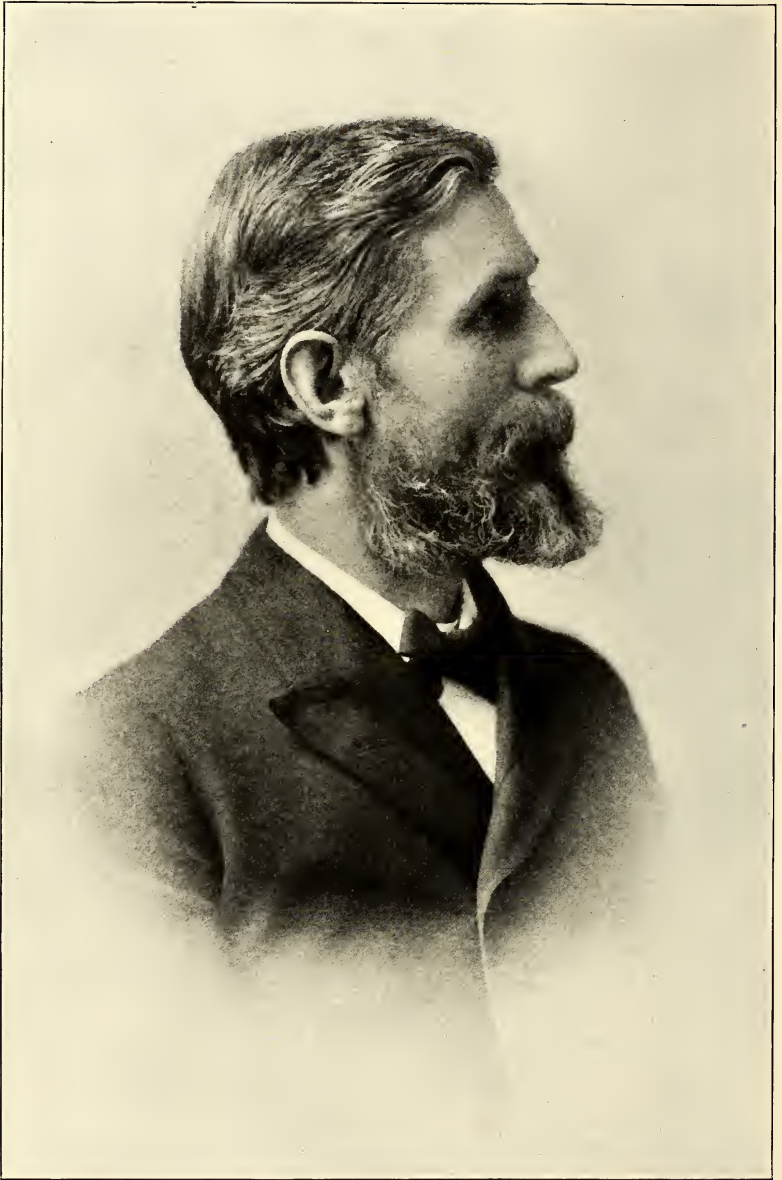
G. E. ANELEY, TAXIDERMIST.



PHOTOGRAPH BY C. H. CARPENTER.

VIRGINIA OR PEN DEER IN SPRING—FIELD COLUMBIAN MUSEUM.

C. E. ARLEY, TAXIDERMIST.



HARLOW N. HIGINBOTHAM, PRESIDENT.

FIELD COLUMBIAN MUSEUM

PUBLICATION 86.

REPORT SERIES.

VOL. II, No. 3.

ANNUAL REPORT OF THE
DIRECTOR

TO THE
BOARD OF TRUSTEES

FOR THE YEAR 1902-1903.



CHICAGO, U. S. A.

October, 1903.

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THE BOARD OF TRUSTEES.

GEORGE E. ADAMS.	ARTHUR B. JONES.
OWEN F. ALDIS.	GEORGE MANIERRE.
EDWARD E. AYER.	CYRUS H. McCORMICK.
WATSON F. BLAIR.	NORMAN B. REAM.
WILLIAM J. CHALMERS.	MARTIN A. RYERSON.
MARSHALL FIELD, JR.	FREDERICK J. V. SKIFF.
HARLOW N. HIGINBOTHAM.	EDWIN WALKER.

DECEASED.

NORMAN WILLIAMS.	GEORGE R. DAVIS.
HUNTINGTON W. JACKSON.	

OFFICERS.

HARLOW N. HIGINBOTHAM, *President.*

MARTIN A. RYERSON, *First Vice-President.*

MARSHALL FIELD, JR., *Second Vice-President.*

HARLOW N. HIGINBOTHAM, *Chairman Executive Committee.*

GEORGE MANIERRE, *Secretary.*

BYRON L. SMITH, *Treasurer.*

COMMITTEES.

EXECUTIVE COMMITTEE.

HARLOW N. HIGINBOTHAM, *Chairman Ex Officio.*

EDWARD E. AYER.

NORMAN B. REAM.

OWEN F. ALDIS.

MARTIN A. RYERSON.

FINANCE COMMITTEE.

MARTIN A. RYERSON.

WATSON F. BLAIR.

MARSHALL FIELD, JR.

COMMITTEE ON BUILDING.

GEORGE E. ADAMS.

WILLIAM J. CHALMERS.

CYRUS H. McCORMICK.

OWEN F. ALDIS.

AUDITING COMMITTEE.

GEORGE MANIERRE.

ARTHUR B. JONES.

STAFF OF THE MUSEUM.

DIRECTOR.

FREDERICK J. V. SKIFF.

DEPARTMENT OF ANTHROPOLOGY.

GEORGE A. DORSEY, *Curator*.S. C. SIMMS, *Assistant Curator Division of Ethnology*.CHARLES L. OWEN, *Assistant Curator Division of Archæology*.

DEPARTMENT OF BOTANY.

CHARLES F. MILLSPAUGH, *Curator*.

DEPARTMENT OF GEOLOGY.

OLIVER C. FARRINGTON, *Curator*. H. W. NICHOLS, *Assistant Curator*.ELMER S. RIGGS, *Assistant Curator Paleontology*.

DEPARTMENT OF ZOÖLOGY, EXCEPT ORNITHOLOGY.

D. G. ELLIOT, *Curator*.SETH E. MEEK, *Assistant Curator*.WILLIAM J. GERHARD, *Assistant Curator Division of Entomology*.

DEPARTMENT OF ORNITHOLOGY.

CHARLES B. CORY, *Curator*.

RECORDER.

D. C. DAVIES.

THE LIBRARY.

ELSIE LIPPINCOTT, *Librarian*.

TAXIDERMIST-IN-CHIEF.

CARL E. AKELEY.

ANNUAL REPORT OF THE DIRECTOR.

1902-1903.

To the Trustees of the Field Columbian Museum :

I have the honor to present the report of the operations of the Museum during the year closing September 30, 1903.

MAINTENANCE.—The sum of \$102,000 was appropriated by the Executive Committee for the necessary expenses of maintenance during the fiscal year, and it is a matter of congratulation to report that the actual amount expended for this purpose was but \$83,101, leaving a satisfactory margin of \$18,899. This is more especially noteworthy, as numerous additions were made during the year to the force of departmental assistants. There were, however, several sums expended for collections, expeditions, and research work, specially authorized by the Executive Committee, which brings the grand total of disbursements during the year to \$145,066. When comparisons are made between the expenditures of the year just closed and those of previous years, it is noted that there is a substantial reduction in the outlay for repairs to the building. It was stated in my last report that the building was perfectly safe, and I have no hesitation in re-iterating that statement, and no anxiety need be felt as to any accidents occurring either to visitors or to those employed in the building, but the periodical attempts to improve the outside appearance of the walls have ceased, as it has been conclusively proven that such efforts were ineffectual. In fact, the introduction of new plaster in patching seemed to loosen a larger area than was repaired. The roof of the Museum building is, perhaps, to-day in better order than it ever has been, and it is doubtful if the interior has been so well protected from leakages since the construction of the building; but this condition is due to constant vigilance.

LECTURE COURSES.—The attendance at the two courses given was highly gratifying, but the poor ventilation of the hall undoubtedly

discourages many, who would otherwise be regular attendants. Experiments have been made in the matter of obtaining purer air in the hall, but the singular construction of the room almost precludes the possibility of accomplishing this with any measure of success. Opportunity is taken to tender sincere thanks to the lecturers who so readily and cheerfully participated in this highly beneficial form of public instruction. The syllabuses shown herewith mark a number of unusually interesting discourses.

Following is the Eighteenth Lecture Course, delivered in October and November, 1902:

- Oct. 4.—“Past and Future of the South Appalachian Mountains.”
Dr. J. A. Holmes, State Geologist, North Carolina.
- Oct. 11.—“The Salmon and Salmon Fisheries of Alaska.”
Dr. Tarleton H. Bean, Chief of the Department of Fish and Game, St. Louis Exposition, 1904.
- Oct. 18.—“Flying Reptiles.”
Dr. S. W. Williston, Professor of Paleontology, University of Chicago.
- Oct. 25.—“Invisible Stars.”
Prof. Edwin B. Frost, Yerkes Observatory, University of Chicago.
- Nov. 1.—“The Insect Life of Ponds and Streams.”
Dr. Jas. G. Needham, Lake Forest College.
- Nov. 8.—“A Naturalist’s Visit to Cuba.”
Dr. C. H. Eigenmann, Director Biological Station, Bloomington, Ind.
- Nov. 15.—“The Mythologic Age—The Indian and the Buffalo.”
Dr. George A. Dorsey, Curator of Anthropology.
- Nov. 22.—“The Fishes of Mexico—A Study in Geographical Distribution.”
Dr. S. E. Meek, Assistant Curator, Department of Zoölogy.
- Nov. 29.—“The Navaho.”
Mr. C. L. Owen, Assistant Curator, Division of Archæology.



HYBRID DUCK—PINTAIL + MALLARD.

The following is the Nineteenth Lecture Course, Spring 1903:

- March 7.—“The Crow Indians of Montana.” (Repeated by request.)
Mr. S. C. Simms, Assistant Curator, Division of Ethnology.
- March 14.—“Diamonds and Diamond Mining.”
Prof. O. C. Farrington, Curator, Department of Geology.
- March 21.—“The English Sparrow.”
Dr. J. Rollin Slonaker, University of Chicago.
- March 28.—“A Tour of the Plant World—Japan.”
Dr. C. F. Millspaugh, Curator, Department of Botany.
- April 4.—“Swimming Reptiles.”
Dr. S. W. Williston, Associate Curator, Division of Paleontology.
- April 11.—“Mining in the Southern Appalachians.”
Mr. Henry W. Nichols, Assistant Curator, Department of Geology.
- April 18.—“Our Household Insects.”
Mr. W. J. Gerhard, Assistant Curator, Division of Entomology.
- April 25.—“Experimental Agriculture in Russia.”
Mr. Frederick W. Taylor, Chief of the Department of Agriculture, St. Louis Exposition, 1904.

PUBLICATIONS.—The established series of publications have been continued, and numbers have appeared at irregular intervals as the opportunity for recording the results of research and observation presented itself. The executive Committee sanctioned an increase of five hundred copies in the different issues, so that the edition of each paper is now fifteen hundred. This increase was necessary on account of the large addition to the number of names on the mailing list of the institution. The following list is presented, giving the titles of issues since the date of last report, with the number of pages and illustrations:

PUBLICATIONS 1902-1903.

- Pub. 68.—Botanical Series, Vol. 1, No. 7. "Flora of the Island of St. Croix." By Charles Frederick Millspaugh. 105 pp., 1 zinc etching, edition 1,000.
- Pub. 69.—Botanical Series, Vol. 3, No. 1. "Plantæ Yucatanæ" (Regionis Antillanæ), Plants of the Insular, Coastal, and Plain Regions of the Peninsula of Yucatan, Mexico. By Charles Frederick Millspaugh. 84 pp., 118 zinc etchings, edition 1,000.
- Pub. 70.—Report Series, Vol. 2, No. 2. "Annual Report of the Director to the Board of Trustees." For the year 1902-1903. 82 pp., edition 2,500, illustrations 12 (half-tones).
- Pubs. 71, 72.—Zoölogical Series, Vol. 3, Nos. 8 and 9. "A List of a Collection of Mexican Mammals, and Description of an apparently New Subspecies of Marten from the Kenai Peninsula, Alaska." By D. G. Elliot. 11 pp., 1 illustration (half-tone). Edition 1,032.
- Pub. 73.—Geological Series, Vol. 2, No. 1. "North American Plesiosaurs, Part I." By Samuel W. Williston. 77 pp., 29 illustrations (half-tones), edition 1,000.
- Pub. 74.—Zoölogical Series, Vol. 3, No. 10. "Descriptions of Apparently New Species and Subspecies of Mammals from California, Oregon, the Kenai Peninsula, Alaska, and Lower California, Mexico." By D. G. Elliot. 21 pp., 1 illustration (half-tone), edition 1,000.
- Pub. 75.—Anthropological Series, Vol. 4. "The Arapaho Sun Dance; The Ceremony of the Offerings Lodge." By George A. Dorsey. 228 pp., 127 half-tones, 10 colored plates, edition 2,000.
- Pub. 76.—Zoölogical Series, Vol. 3, No. 11. "A List of Mammals Obtained by Edmund Heller, Collector for the Museum, from the Coast Region of Northern California and Oregon." By D. G. Elliot. 22 pp., edition 1,500.
- Pub. 77.—Geological Series, Vol. 2, No. 2. "Catalogue of the Collection of Meteorites, May 1, 1903." By Oliver Cummings Farrington. 45 pp., 10 illustrations (8 half-tones, 2 zinc etchings), edition 1,500.

- Pub. 78.—Geological Series, Vol. 2, No. 3. "On the Osteology of *Nyctosaurus* (*Nyctodactylus*), with Notes on American Pterosaurs." By Samuel W. Williston. 38 pp., 5 illustrations (1 photogravure and 4 zinc etchings).
- Pub. 79.—Zoölogical Series, Vol. 3, No. 12. "A List of Mammals Collected by Edmund Heller in the San Pedro Martir and Hanson Laguna Mountains, and the Accompanying Coast Regions of Lower California, with Descriptions of Apparently New Species." By D. G. Elliot. 33 pp., 6 illustrations (1 zinc etching and 5 half-tones), edition 1,500.
- Pub. 80.—Zoölogical Series, Vol. 3, No. 13. "Descriptions of Apparently New Species of Mammals of the Genera *Heteromys* and *Ursus* from Washington and Mexico." By D. G. Elliot. 5 pp., edition 1,500, no illustrations.
- Pub. 81.—Anthropological Series, Vol. 5. "Traditions of the Arapaho." Collected under the Auspices of the Field Columbian Museum and of the American Museum of Natural History. By George A. Dorsey and Alfred L. Kroeber. 350 pp., edition 1,500.

The distribution to foreign countries still continues through the Bureau of International Exchanges of the Smithsonian Institution. The following table presents a record of the distribution of the publications by series:

OFFICIAL :

Trustees,	13
Staff,	10
Corporate Members,	3
Honorary Members,	3
Annual Members,	250

RECEIVED PUBLICATIONS IN ALL DEPARTMENTS :

	Domestic	Foreign.
Individuals,	10	10
Universities, Schools, and Colleges,	60	37
Academies and Institutes,	29	18
Museums and Gardens,	6	39
Societies,	25	49
Libraries,	60	28
Governments and State Departments,	11	2
Journals,	12	2

RECEIVED PUBLICATIONS IN ONE OR MORE DEPARTMENTS:

	Domestic.				
	*A	B	G	†O	Z
Individuals,	83	53	109	10	37
Universities, Schools, and Colleges,	2	29	12	1	10
Academies and Institutes,	4	2	3	..	1
Museums and Gardens,	10	8	9	1	7
Societies,	11	11	9	5	8
Libraries, . . . . .	..	3	1	..	1
Journals,	12	9	6	2	4
Governments and State Departments,	1	8	18	..	15

	Foreign.				
	*A	B	G	†O	Z
Individuals,	55	26	49	4	21
Universities, Schools, and Colleges,	1	1	6	1	9
Academies and Institutes,	3	1	7	1	9
Museums and Gardens,	12	6	6	1	8
Societies,	11	15	23	3	29
Libraries, . . . . .	..	..	..	..	..
Journals,	26	17	19	17	16
Government and State Departments, . . . . .	..	5	15	..	8

LIBRARY.—The number of books and pamphlets in the library is 32,224, distributed as follows:

	Books.	Pamphlets.
General Library,	10,873	14,749
Department of Anthropology,	347	95
Department of Botany,	564	264
Department of Geology,	1,765	2,864
Department of Ornithology,	382	.....
Department of Zoölogy,	321	.....

The accessions in this important division of the Museum were specially noteworthy and numerous during the year just closed. An increase of 222 titles over those received in any previous year has to be recorded. This exceptional increase was due to the fact that exchange transactions were for the first time inaugurated with several learned institutions and societies both at home and abroad. The number and value of the publications thus obtained increases yearly, and every effort is made to extend the mailing list with this object in view. The accessions were received from 122 individuals and 628 societies and incorporated institutions, 228 of which were from abroad. The number of periodicals subscribed to is 67. A complete list of the accessions to the Library accompanies this

* A, B, G, O, Z denote Anthropology, Botany, Geology, Ornithology, and Zoölogy.

† Indicates that nothing was issued in the department designated by the † during the year ending September 30, 1903.

report. Special mention is made of the Separata of the late Professor E. D. Cope, presented by Mrs. E. D. Cope; Codex Vaticanus, No. 3773, presented by the Duc de Loubat; and the British Museum which presented several of its valuable catalogues. An allusion in the Librarian's report to the increasing use of the facilities of the Library by the general public, and more especially by the school children, is interesting, and the assurance is here given that every encouragement will be offered to those seeking the benefits of the Library. The introduction of compressed air as a means of dusting the books was attended with more or less success, although the method thus employed demands the removal of the books from the shelves. The inventory of the departmental libraries, which in future will be taken annually, showed that all books and pamphlets were on file. Nine installments of the John Crerar Library duplicate catalogue were received and placed in the card cabinet specially constructed for that purpose. There were written 2,552 catalogue cards, and over 4,000 were revised, rewritten, and distributed among the several catalogues. Four hundred and forty books were received from the bindery. The courtesies which have been extended from year to year by the John Crerar Library and the Chicago Public Library are still made use of, and grateful acknowledgment is here made to these two institutions.

DEPARTMENTAL CATALOGUING, INVENTORING AND LABELING.—All specimens received in the Department of Geology during the year have been numbered and catalogued as received, and descriptive data regarding them filed. The method of cataloguing and recording specimens employed in this department is as follows: Each specimen is given a serial number which is inscribed upon it in an inconspicuous place with oil paint. A black or white color is usually used, according as either may be necessary to contrast with the color of the specimen. The numbers so applied are perfectly durable so far as handling of the specimen is concerned, and if it is desired to remove them at any time, this can be readily done without injury to the specimen by the application of a drop or two of a solution of caustic potash. While the serial number is placed upon each specimen, it may be the same for all the specimens of a single lot. A letter is also prefixed to the number of the specimen to indicate in a measure its character. Thus, specimens related to the economic collections have the letter "E" placed before their serial number, those of a paleontological character the letter "P," and so on. A correspondent grouping is made of the record books. Under the serial number of each specimen

in the record books are recorded the following: Date of accession of each specimen, its previous or original number, if any; its name, locality, from whom received, by what method, such as gift, exchange, purchase, etc.; by whom and when collected, its dimensions or weight, or both, and any further data regarding it that may be of interest or importance. Accession cards filed in the Recorder's office show corresponding numbers and the more important of the above data. Thus, practically, two separate records of each specimen are preserved. The maintenance of a third in the form of a card catalogue has not been found essential, although such a catalogue has been prepared for some collections. The label of the specimen, which is kept so far as possible associated with it, affords practically, however, a third brief record. If the label becomes separated from the specimen in any way, the number on the specimen affords at once a means of identifying the latter through consulting the record books. The chances of confusing specimens or of losing the data regarding them are, therefore, practically eliminated, and complete and readily accessible records of each specimen are available at all times. The work of labeling has included the preparation of twenty-eight hundred (2,800) tablets for the paleontological collection. Each of these tablets bears the label of the specimen or specimens which belong to it, imprinted directly upon the surface of the tablet itself. As the tablets are of many different sizes, the correlation of tablet, object, and label, so as to avoid mistakes and present a neat appearance was a labor involving much care and painstaking. As now prepared, the completed mounts show, beside the specimen itself, the Museum number of the specimen, its common name, if any, its scientific name, the authority by whom named, the period to which it belongs, and the locality where found. The paleontological cases have also been completely provided with framed case labels indicating the contents of each case. About one thousand (1,000) labels were printed and distributed in Hall 72 for the collection of gold and silver ores. The labeling of that collection is now practically complete. The collection of lead and silver ores to the number of about seven hundred (700) specimens in the West Dome was also completely labeled. The labeling of the systematic rock collection, so far as the individual specimens were concerned, was carried to completion, about three hundred (300) labels having been prepared for this purpose. Numerous miscellaneous labels, many of them descriptive in character, were also prepared and placed with new material as it was put on exhibition. There are now fifty-one catalogue books in the Department of Botany, which show one hun-



SKELETON OF EXTINCT FLYING REPTILE (*NYCTOSAURUS GRACILIS*) X $\frac{1}{2}$. FROM CHALK BEDS, GOVE COUNTY, KANSAS.
DEPARTMENT OF GEOLOGY.

dred and thirty-nine thousand, nine hundred and forty-five (139,945) entries, of which eighteen thousand five hundred and ninety (18,590) were made during the past year. The work of inventorying and cataloguing in the Department of Anthropology has been carried on as in previous years. This department seems to be in an unusually good condition in this respect. Several of the more extensive collections resulting from field explorations during the summer months are as yet uncatalogued, owing to the fact that the collectors are still in the field. All this work will, however, be brought up to date immediately on their return. The extensive collection purchased from Lieutenant Emmons and that obtained by Assistant Curator Simms in the field, have both been labeled and are ready for installation. The Curator of Zoölogy reports that all material received in that department has been catalogued and that the entries are up to date. The pressing need, however, in this department is a card index to the specimens, and it is expected that this work will be commenced shortly. Labeling in this department has kept abreast with the receipt of the specimens. Cards to the number of thirty-two hundred (3,200) have been written for the catalogue in the Department of Ornithology, and there is now in process of preparation a catalogue of the Birds of North America, which will be, when completed, a catalogue of the North American birds in the Museum collections.

The year's work in the Museum on catalogues and inventories is shown in detail:

Departments.	No. of Record Books.	Total No. of Entries to Sept. 30, 1903.	Entries during 1902-1903.	Total No. of Cards written.
Anthropology,	24	60,913	4,913	64,803
Botany,	51	139,945	18,590	4,050
Geology,	11	33,920	2,956	6,000
Library,	1	35,784	3,630	20,741
Ornithology,	3	15,032	1,764	3,209
Photography,	4	16,051	2,183	.....
Zoölogy,	20	28,464	3,383	13,600

ACCESSIONS.—The accessions of material in the Department of Geology, although not so numerous as usual, were nevertheless important. Gifts worthy of especial mention included fifty-four specimens of crystallized barite from Prof. S. W. McCallie; a slab of Uintacrinus from Dr. S. W. Williston; and a crystal of gem tourmaline from W. J. Chalmers, Esq. A collection of about one hundred and twenty-five (125) minerals and ores was received on deposit from the Denver & Rio Grande R. R. The meteorite collection was considerably increased through a number of exchanges made with

domestic and foreign institutions, twenty-eight new falls being thus obtained. A number of fossils from the Mississippi Valley was also received from H. V. Baker by exchange. By purchase, a specimen of a pterodactyl, *Nyctosaurus*, was obtained, which is the most complete one of this genus in existence, and one of the finest known of the order. Other additions by purchase include a very choice specimen of fossil sting ray from Wyoming, and well-preserved specimens of fishes and plants from the same beds; a series of cut and massive turquoises from Arizona; two specimens of precious opal from Honduras; some cut thomsonites from Grand Marais; and three specimens of meteorites. The most important accession in the Department of Zoölogy was Mrs. Gray's Water Buck (*Cobus Mariæ*), a very beautiful and rare Antelope, specimens of which are in very few museums of the world. The Mexican expedition, conducted by Assistant Curator Meek, contributed over three thousand specimens of fishes and two hundred and forty-two (242) shells. There were four thousand one hundred and fifty-one (4,151) specimens added to the Entomological series, of which nine hundred and thirty-three (933) were gifts. Cases for these collections are urgently needed, the delicate nature of the specimens demanding more care than any other objects. The majority of the accessions in the department of Anthropology were again this year chiefly ethnological, and considerably more than half of these were secured through expeditions in the field by members of the staff. Among the more important accessions may be mentioned those collected by J. W. Hudson in California; by C. F. Newcombe, on the Northwest Coast; by S. C. Simms, among the Cree tribes of Canada, and the Chippeway, of Minnesota; by C. L. Owen, among the Apache of Arizona; and by the Curator of the department, among the Pawnee, Arapaho, Arikara, and other tribes of the Plains. Two important collections have been secured during the year by means of purchases. First, a collection of two hundred and fifty (250) ancient Tlingit baskets, purchased from Mr. G. T. Emmons, of the United States Navy. This is one of the most complete and important collections of basketry ever brought together in any museum in this country. The second purchase was made through Mr. E. E. Ayer, who secured from Bosco Reale three large plaster panels and other interesting specimens, forming notable additions to the already important collection from this region. Mr. Ayer also purchased, in Egypt, sixteen fine stone vases. The most important loan during the year was secured through Mr. Ayer, and was made by Mr. T. M. Davis, of Newport, R. I. Reference is made to a cut-leather corselet

of an Egyptian priest of Thebes, of the sixteenth century B. C., made, probably, from the skin of an ibex or an oryx; this, with another specimen found with it, being absolutely unique in character, and the only specimens in existence. In the Department of Ornithology the additions to the collections have been largely by expedition and purchase, although several gifts are reported, as will be seen in the list of accessions. The department collected in Phoenix, Arizona, San Clemente Island, and Monterey, California, and in the Huachuca Mountains of Arizona, and secured over eleven hundred and forty-one (1,141) bird skins, and one hundred and seventy-six (176) eggs, which were especially important when it is considered that the department did not possess a representative collection from any of those localities. Accessions of eggs and skins of several species not previously represented were added, while of other species, of which there were only one or two skins, there is now a series sufficient for comparative study. The donation from Mr. Rowley of forty-three (43) bird skins collected in Sonora, Mexico, were also particularly valuable in this respect, coming as they did from a locality otherwise almost wholly unrepresented in this department. The Curator of Botany reports important additions to the Herbarium, of which the following may be mentioned: Smith's Colombian Plants, 2,312 sheets; Egger's West Indian Plants, 1,025 sheets; Pringle's Plants of Mexico, 918 sheets; Egger's Ecuadorian Plants, 817 sheets; Harper's Plants of Georgia, 669 sheets; Tracy's Plants of the Gulf States, 579 sheets; Northrop's original set of Bahama Plants, 523 sheets; Heller's Plants of Porto Rico, 498 sheets; Pollard & Palmer's Plants of Cuba, 390 sheets; Heller's California Plants, 385 sheets; Smith, E. C., Plants of Illinois, 375 sheets; Schaffner's Mexican Plants, 337 sheets; Lansing's Plants of the Lake Chicago Basin, 304 sheets; Newcombe's Plants of Alaska, 288 sheets; Miller's Plants of Venezuela, 274 sheets; Cusick's Oregon Plants, 265 sheets; Exsiccatae Grayanæ, 245 sheets; Palmer's Mexican Plants, 235 sheets; Bebb's Illinois, Indiana and Wisconsin Plants, 218 sheets; Rowlee's Plants of the Isle of Pines, 107 sheets; Pringle's Plants of Cuba, 54 sheets. The classification of accessions follows:

	No. of Acces- sions.	No. of Speci- mens.
Gifts,	139	3,119
Loans,	3	240
Exchanges,	39	3,616
Collected,	59	14,527
Purchase,	69	10,784
Deposit,	2	3
Collated,	4	169
Award,	1	1

EXCHANGES.—The increase of material obtained by means of exchange is highly gratifying, and during the year this mode of increasing the collection has been considerably extended. Among the institutions and individuals from whom specimens have been received through this medium, may be mentioned the British Museum; the Australian Museum, Sydney; Botansk Have, Christiana, Norway; K. K. Naturhistorisches Hof Museum, Vienna; Botanical Gardens, Sydney; U. S. National Museum; Free Museum of Science and Art, Philadelphia; Ohio State University; New York Botanical Gardens; Gray Herbarium, Cambridge; U. S. Department of Agriculture, Washington.

EXPEDITIONS AND FIELD WORK.—The field work of the Department of Anthropology has already been touched upon in a notice of the accessions. In continuation of a plan begun two years ago, Dr. C. F. Newcombe has continued his explorations among the tribes of the Northwest Coast. He has paid especial attention during the year to the region of the Thompson and Frazer Rivers, and has also made an extended trip to the west coast of Vancouver Island. During the summer months, a considerable portion of his time was devoted to the Haida of Queen Charlotte Islands, where he secured a large number of skeletons, and a number of very interesting carvings of large size, which form interesting additions to the collection illustrating this phase of Northwest Coast art. Also in continuation of a plan begun two years ago, for collection and investigation in Northern California, Dr. J. W. Hudson has devoted himself to the extreme northwestern part of the state, where he has met with very great success. He has forwarded to the Museum about forty large cases of material. Assistant Curator Owen, in the spring, returned to the White Mountain Apache, where he remained several months collecting and continuing his studies among the medicine-men of the Apache. Mr. Owen has added a very large number of interesting specimens to the Apache collection, and has succeeded in obtaining a large fund of valuable and ethnological information concerning the practices of the medicine-men. Assistant Curator Simms, in August, set out on an expedition among the Cree of Canada, and Chippeway of Minnesota, and is yet in the field. Mr. Simms has had a successful period of work, as the collection made by him contains ethnic objects from tribes hitherto almost without representation in the department. Early in the spring of the year, Mr. Burt was sent on a short trip to the Pawnee and Wichita for the purpose of obtaining data to be used by him in the construction of miniature groups of those tribes. Two of these

groups are well under way, and are not only of unusual interest, but have been constructed with the utmost thoroughness. The Curator of the department has continued his investigations among the Arapaho, Pawnee, and Wichita, and has extended them to include the Arikara—the work among the Pawnee and Arikara being carried on during the present year by means of an especial grant made by the Carnegie Institution of Washington. He has made extensive additions to the Arapaho collection; small, but important, additions to the Pawnee collection; and has made a good beginning toward a collection illustrative of the Arikara. Mr. H. R. Voth, through the generosity of Mr. Stanley McCormick, has been enabled to continue his studies among the Hopi of Arizona, the greater portion of his time being spent in the preparation or revision among the Indians themselves, of memoirs bearing upon Hopi ceremoniology. The plan of co-operative work has been continued during the present year with the U. S. Bureau of Ethnology, and Mr. James Mooney of that institution has been continuing his investigations among the Cheyenne for the department, especially investigating the heraldry of that tribe. This work is well advanced and is proving most interesting. Mr. Alleyne Ireland reports from Rangoon that he has shipped over fourteen cases of ethnic material obtained in British North Borneo and Burmah. A small, but particularly interesting, collection of material was also obtained by Mr. Ireland in Sarawak. In the interests of the Department of Geology, Assistant Curator Nichols, during the months of October and November, made an extended trip through the mining districts of the southern Appalachians, principally in the mountainous parts of North Carolina and Georgia. The well-known copper mines of Ducktown, Tennessee, were visited, and a full series of the copper ores, rocks, and accessory minerals there occurring were collected. Representative specimens of the eastern Tennessee barytes, iron, and zinc ores were also secured. In North Carolina the iron mines of Cranberry yielded a collection of iron ores with accessory rocks and minerals. Mitchell and Yaney counties, of North Carolina, in the heart of the Appalachian Mountains, were visited for mica, gem minerals, and minerals of rare earths. In these counties, besides mica and the ordinary accessory minerals, such as garnet, beryl, etc., aqua-marine, emerald, and transparent oligoclase were secured; also pitch-blende, gummite, allanite, and other minerals of the rare earths. In southern North Carolina and northern Georgia, corundum from various localities was collected, together with abrasive garnet, asbestos, cyanite, and other minerals. From many localities in Georgia, specimens of talc and kaolin, as well as ores of iron, gold, copper,

manganese, and chromium were secured. Some fossils were obtained in southern Tennessee and Mississippi. In all, the expedition yielded six hundred and eighty-two (682) specimens of minerals, one hundred and thirty-two (132) specimens of ores and associated rocks, twelve (12) specimens of fossils, and twelve (12) miscellaneous geological specimens. A deposit of Permian batrachian fossils in Oklahoma was investigated by Mr. Menke in November, with a view to determining its richness in Museum material. Some fragmentary specimens of scientific importance were secured, but the investigation showed that material for exhibition purposes was not likely to be afforded by the locality. A number of localities in Wisconsin affording Cambrian and Trenton fossils were visited by Mr. Slocum in August, and a large amount of material new to the collections was obtained. Several hundred specimens, chiefly of trilobites, brachiopods, worm and plant remains were secured, those of Cambrian age being of especial importance, as this period has been but poorly represented in the Museum collections hitherto. Field work on the North American Forestry collection was carried on in northern Minnesota last autumn, at which time several complete collections of trees were made by the Assistant Curator in Economic Botany. The only other field work in the Department of Botany was that done by the staff in Lake Chicago Basin. Several trips have been made between Chicago and various points in northern Indiana and southern Michigan, which have resulted in the addition of five hundred and thirty-nine (539) sheets to the interesting series obtained in previous years. Many photographs have also been made of plant societies in this region. Mr. Heller, regular collector in the Department of Zoölogy, was extremely successful in the Sierra Nevada and Death Valley regions, and obtained a very large amount of valuable material, amongst which were several new species. Mr. Meek, Assistant Curator in the Department of Zoölogy, also did effective work in southern and eastern Mexico, securing representative collections of reptiles and invertebrates of those regions. As will be noted elsewhere, Mr. Breninger collected for the Department of Ornithology from January until July, chiefly in Arizona and California, and met with unusual success, adding representative collections of nests, eggs, and skins from the regions indicated. The following list indicates the various expeditions sent out during the year:

Locality.	Collector.	Material.
Southern States, . . .	H. W. Nichols, . . .	Ores, Minerals, and Fossils.
Oklahoma,	George A. Dorsey, . . .	Pawnee Ethnology.
North Dakota,	George A. Dorsey, . . .	Arikara Ethnology.



HALL OF EGYPTOLOGY.

Locality.	Collector.	Material.
Oklahoma,	James Mooney,	Cheyenne Heraldry.
Southern Kansas and Oklahoma,	H. W. Menke,	Permian Batrachians and Reptiles.
Northern Minnesota,	Chas. J. Brand,	North American Forestry, Woods, Herbarium Spec- imens, Economic Speci- mens.
British North Borneo,	Alleyne Ireland,	Ethnology.
Queen Charlotte Islands British Columbia,	C. F. Newcombe,	Skeletons and Ethnological specimens.
Oklahoma,	George A. Dorsey,	Cheyenne and Arapaho Eth- nology.
California,	J. W. Hudson,	Ethnological Collections from Wintun, Maidu, and Hupa.
Oklahoma,	J. A. Burt,	Pawnee and Wichita Groups.
Southern and Eastern Mexico,	S. E. Meek,	Fishes, Reptiles, and Inver- tebrates.
California and Mexico,	Geo. F. Breninger,	Birds and Eggs.
Arizona,	C. L. Owen,	Apache Ethnology.
Canada and Minnesota,	S. C. Simms,	Ethnological Collections from Crees and Chippe- way.
Wisconsin,	A. W. Slocum,	Cambrian and Trenton fos- sils, clays, and sand- stones.
Arizona,	H. R. Voth,	Investigations in Hopi cer- emonies.
Lake Chicago Basin,	O. E. Lansing, Jr.,	Collection of Plants of Chi- cago Basin.
Sierra Nevada and Death Valley Regions,	Edmund Heller,	Mammals.
Mexico,	N. G. Buxton,	Mammals.

INSTALLATION, REARRANGEMENT, AND PERMANENT IMPROVEMENT.—The follow-
ing new installations are reported from the Department of Botany:

GRAMINEÆ:

One full case illustrating various cereal and sugar products from
this family.

One full case illustrating the various types of Japanese bamboo
in large and distinctive specimens. Also a few of the many utiliza-
tions of this majestic and gigantic grass.

MORACEÆ:

One-half case and one framed transparency illustrating the

products of this interesting family of plants. The installation includes the mulberry, Japanese papers from the paper mulberry, rubber, figs, vegetable milk and cheese, fustic, bread-fruit, hops, etc.

TILIACEÆ:

One full case devoted to the two important bast fibers produced by these plants—jute and linden—with various examples of their utilization.

SOLANACEÆ:

Two cases devoted to the tobacco plant, and many of the more interesting native uses of the leaves.

Satisfactory progress has been made in the full labeling of several of the cases previously installed, and in supplanting the early incongruous labels with the uniform black labels adopted by this department last year.

Over 18,000 sheets have been mounted, recorded, and installed in systematic order in the Herbarium during the year. These sheets represent various fields as follows:

	Added this Year.	Total in Herb.
Acklin Island (Bahama),	1	1
Alabama,	33	212
Andros Island (Bahama),	293	293
Arizona,	1,319	1,971
Arkansas,	107	118
Brazil,	1	75
Bahamas (in general),	540	689
Barbadoes,	11	75
Canada,	41	1,612
Cedros Island (California),	1	40
California,	1,307	5,401
Connecticut,	12	198
Colorado,	919	3,672
Coronados Island (California),	1	5
Cuba,	746	2,102
Curacao,	15	15
Dakotas,	1	62
Delaware,	95	569
District of Columbia,	16	1,073
Dominica,	6	31
Ecuador,	817	830
Fortune Island (Bahamas),	3	3
Farallones Island,	1	3
Florida,	372	5,193
Guatemala,	2	79
Guadeloupe Island (California),	3	20
Grenada (W. I.),	64	90
Georgia,	681	927

	Added this Year.	Total in Herb.
Haiti,	4	13
Hog Island (Bahamas),	16	16
Indian Territory,	17	83
Idaho,	28	672
Indiana,	448	2,286
Illinois,	1,325	11,797
Iowa,	24	757
Jamaica,	134	959
Kansas,	7	102
Kentucky,	3	375
Louisiana,	85	646
Lower California,	125	754
Mississippi,	37	1,325
Missouri,	23	533
Montana,	409	1,636
Minnesota,	111	459
Michigan,	294	1,482
Mexico,	1,715	7,887
Massachusetts,	203	1,329
Maryland,	19	311
Mackinac Island (Michigan),	2	156
Maine,	68	725
Nebraska,	8	41
Nevada,	14	88
New Brunswick,	22	510
New Hampshire,	46	636
New Jersey,	69	926
New Mexico,	199	588
New Providence (Bahamas),	183	183
New York,	135	3,282
North Carolina,	63	489
Ohio,	62	198
Oregon,	581	2,644
Pacific Coast (general),	36	256
Pennsylvania,	81	1,662
Porto Rico,	496	3,519
Pines Island (Cuba),	107	330
Prince of Wales Island (Alaska),	189	189
Queen Charlotte Islands (B. C.),	82	82
Rose Island (Bahamas),	1	1
Rhode Island,	30	341
Rocky Mountains (general),	6	662
Salt Cay (Bahamas),	5	5
St. Croix (W. I.),	18	1,284
St. Kitts (W. I.),	7	15
South Carolina,	30	455
St. Thomas (W. I.),	262	462
St. Jan (W. I.),	5	5
St. Vincent (W. I.),	102	102

	Added this Year.	Total in Herb.
Santo Domingo (W. I.),	43	163
Tennessee,	80	460
Texas,	771	2,170
Trinidad (W. I.),	8	40
Turk's Island (Bahamas),	11	11
Tobago (W. I.),	32	34
U. S. Colombia,	2,294	2,312
Utah,	60	285
Vermont,	98	650
Venezuela,	324	818
Vancouver (B. C.),	9	19
Virginia,	79	344
West Virginia,	11	1,088
Wisconsin,	80	399
Washington (state),	358	2,056
Wyoming,	19	136
Yellowstone Park,	20	232

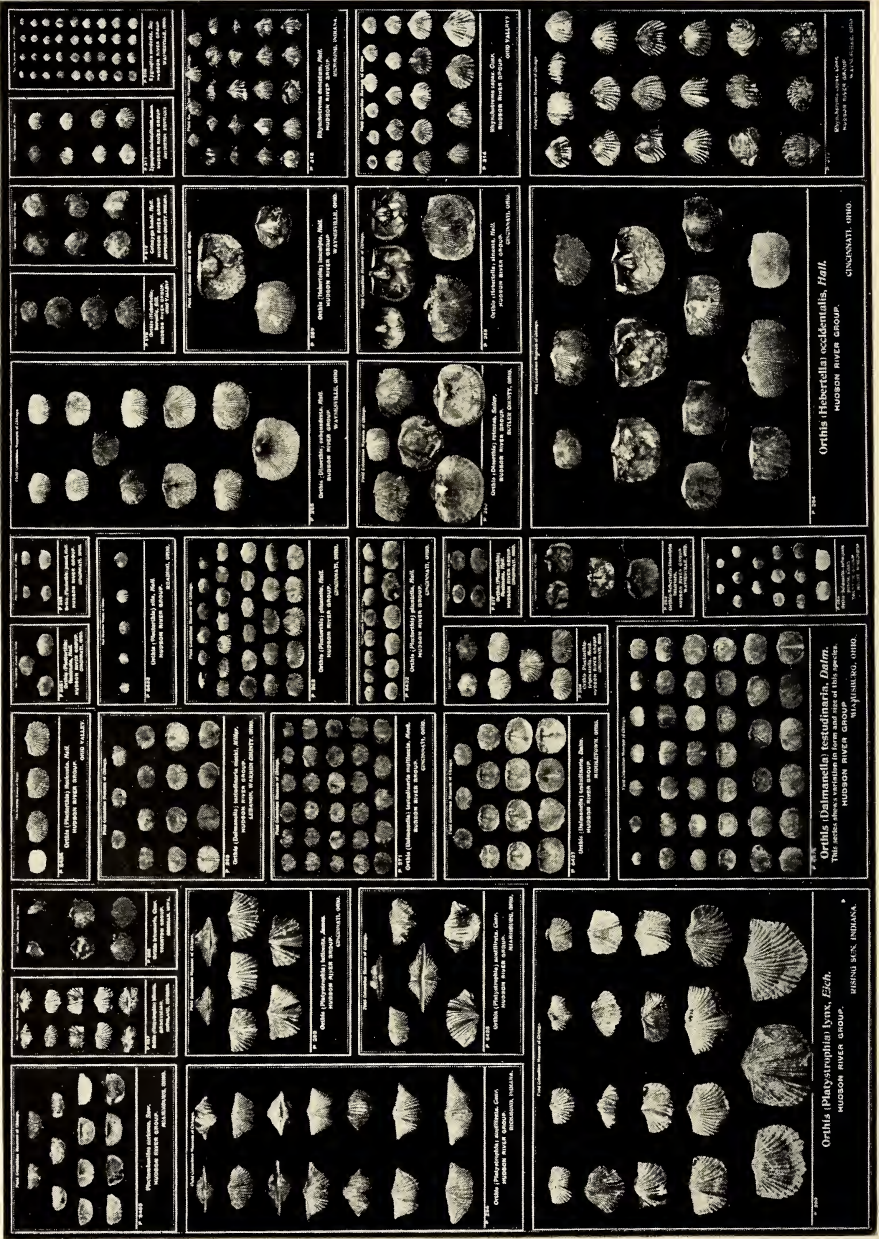
Of the collections made, purchased, or received by exchange during the year, all are now mounted and installed except about 1,130 specimens that have arrived during the past few days. Of the Patterson herbarium purchased in 1900, 4,847 sheets have been mounted this year, and 15,462 previously, making 20,209 sheets so far placed in the regular herbarium installation; it is estimated that some 15,000 sheets still remain to be cared for. Of the Heller herbarium, 1,721 sheets have been mounted this year, and 2,842 previously, leaving some 10,000 sheets still to be mounted and installed. The work of installing the paleontological collections in the cases described in last year's report has been practically completed during the year, the principal labor involved being the mounting of invertebrate and other small fossils upon tablets of manila board and installing these. About twenty-eight hundred (2,800) tablets have been so prepared. The tablets have a dull black finish, and upon each tablet is printed in aluminum ink the label of the specimen which it bears. The sizes of the tablets follow a unit of two inches, eight sizes being employed, as follows: 2 x 2, 2 x 4, 4 x 2, 4 x 4, 4 x 6, 6 x 6, 4 x 8, and 8 x 8 inches. By such an employment of units, specimens of different sizes can be inserted anywhere in a series without disturbing its horizontal or vertical arrangement. The gain in prominence of the specimens and appearance of the collection as a whole through employment of the black tablets, has been considerable, and the general effect proven very satisfactory. Case labels to the number of ninety have been provided for the collection, and about two thousand specimens designed for study purposes have

been placed in drawers beneath the corresponding exhibition material. The mineral specimens available for exchange, to the number of several hundred, have been carefully assorted and arranged in drawers by species, so as to be preserved from injury and made readily available. The work of preparing for exhibition the large Dinosaur specimen collected in 1901 has been continued to completion during the year. One cervical and seven dorsal vertebræ, eighteen ribs, and the sacrum have been thus prepared, and so far as available case room would permit, placed on exhibition, together with parts of the individual previously worked out. The vertebral series, as now exhibited, measures about thirty feet in length. Important contributions to a knowledge of the structure of Dinosaurs have resulted from the working out of this individual, and it forms a unique specimen. Portions of another large Dinosaur individual belonging to a new genus, are now being prepared for exhibition and study. The progress of the work upon these fossils has been much facilitated by the introduction of a complete pneumatic apparatus, including drills, chisels, and rotary appliances driven by pneumatic power, by which means removal of the matrix can be accomplished much more safely and rapidly than could otherwise have been the case. The essential tool is a pneumatic hammer of the straight cylinder type. It consists of a cylindrical chamber in which a five-eighth inch stroke is caused to play upon the head of a chisel at the rate of 3,000 to 3,500 strokes per minute. This rapid succession of light blows gives the chisel a remarkable cutting capacity, and has the great advantage for paleontological work of avoiding the jar attendant upon the use of the hand hammer. Considerable time has been given to rearranging, cleaning, and labeling the economic collections. Many of the lead ores formerly exhibited in Hall 72 were transferred to the West Dome, thus affording space for the exhibition in Hall 72 of gold and silver ores which had hitherto been kept in storage. All of the specimens in this Hall have been mounted upon exhibition blocks, and labels to the number of over two thousand have been provided for them. The specimens were thoroughly cleaned at the same time, and dust leaks in the cases stopped as far as possible. In Skiff Hall, all the specimens were removed from the cases and given a thorough cleaning, rearrangement, mounting, and labeling. This work was performed primarily in order to brace the shelves to prevent their sagging, and accordingly the opportunity to improve the collection as a whole was made use of. There were also prepared in connection with the ores of the different metals, several series rep-

representing graphically the composition of the minerals affording that metal. Thus in order to illustrate each mineral affording copper, for example, there is shown in an adjacent tube a quantity of copper, sulphur, silica, water, or other ingredient going to make up the mineral in the exact proportion in which each enters into its composition. The demonstration of composition to the eye is thus made more vivid than it could be if expressed in figures alone, and the exhibition in series enables the relative richness of the different minerals in any metal to be determined at a glance. In Hall 70, a large number of the coal specimens have been treated to prevent disintegration, and the series of graphite ores has been rearranged and enlarged. Several important improvements have been made in the Department Laboratory to afford better facilities for chemical work, chief among which has been an entire rebuilding of the hood. The old wooden frame was taken down and sashes fitted with large lights of glass put in its place. The interior of the hood was lined throughout with white porcelain tile, thus affording a clean and smooth surface. A large air bath was constructed within the hood, and the interior piped for water, gas and compressed air. The stock of chemicals and apparatus has been considerably increased, the additions to apparatus including a lever air-pump, pycnometer, calorimeters, and dichroscope. The work of cataloguing and numbering the specimens in the field during the previous year absorbed the attention of the staff in the Department of Anthropology, leaving little time for new installation and rearrangement. But a single hall has been installed during the year, namely, that illustrating the ethnology of the Islands of the Pacific. As is customary, during the autumn of each year, all the cases in the department have been examined and overhauled. Interchangeable black and gold numbers were placed upon each case containing permanently installed specimens, and a black and gold label now adorns most of the cases in the department. These additions enable visitors to readily refer to the official guide for more extended information regarding the contents.

Among the permanent improvements made in the building, the following may be noted: The construction of a new laboratory for the osteologist in the east end of the building, and a room for the photogravure operator in the east gallery. Several of the offices were entirely overhauled and provided with fresh coats of paint and kalsomine.

PRINTING.—It will be noticed that an unusually large number of labels have been printed during the year. The office is well equipped and it is clearly evident that this very useful section of the Museum



might be enlarged to great advantage in its facilities and number of employees. The following figures show the number of impressions in the way of label printing and other impressions:

Department.	Labels.	Other Impressions.
Anthropology,	322	6,500
Botany,	1,288	24,550
Geology,	4,990	.....
Zoölogy,	1,225	18,750
Director's Office,	6	50,783
Library,	.....	7,400

PHOTOGRAPHY AND ILLUSTRATION.—Unusual activity marked the progress in this important division. The addition of a complete photo-gravure plant must be considered an enterprising step, enabling the series of publications now to be illustrated by this very satisfactory process. The suggestion that each Curator be provided with an album, containing a print of every negative made for his department, has materialized, thus facilitating the location of each negative in the possession of the Museum, a far more satisfactory system than a written record, where descriptions are often misleading. These albums now number twenty-two, and contain over seven thousand prints. Over fifteen hundred negatives, made in the field, were developed; one thousand lantern slides and six hundred skull negatives indicate, to a limited extent, the busy year of this division.

ATTENDANCE.—It is highly gratifying to report an increase in the total attendance for the year of 32,714. In fact, the figures for the year just closed show that more visitors viewed the collections than in any previous year except the first, an impressive indication intimating that the Museum is growing in serious regard, as well as in popular favor. An analysis of the attendance during the entire year appears in another portion of this report. The following is a list of the school classes (thirty pupils or more), that visited the Museum during the year.

LIST OF CLASSES.

Schools and Location.	Teachers	Pupils.
Sherwood—Princeton ave. and Fifty-seventh st.,	5	67
Yale—Yale ave. and Seventieth st.,	1	41
Riverside High School—Riverside, Ill.,	1	51
River Forest—River Forest, Ill.,	1	30
F. W. Parker—Webster ave. and N. Clark st.,	4	30
Bryant—S. Forty-first ave. and W. Thirteenth st.,	1	39
Medill—W. Fourteenth pl. and W. Throop st.,	2	42
Bryant—S. Forty-first ave. and W. Thirteenth st.,	1	41
Kershaw—Union ave. and W. Sixty-fourth st.,	2	41

Schools and Location.	Teachers.	Pupils.
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	3	61
Agassiz—Diversey and Seminary aves.,	2	75
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	3	60
University of Chicago,	1	32
Sherwood—Princeton ave. and Fifty-seventh st.,	2	31
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	1	51
John Marshall—W. Adams st. and Kedzie ave.,	2	73
Ray—Fifty-seventh st. and Monroe ave.,	2	41
Keith—Thirty-fourth and Dearborn sts.,	1	36
Sherwood—Princeton ave. and Fifty-seventh st.,	2	38
School of Education,	2	35
West Pullman—West Pullman, Ill.,	1	47
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	1	36
Yale—Yale ave. and Seventieth st.,	2	39
Keith—Thirty-fourth and Dearborn sts.,	1	41
University of Chicago,	1	30
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	3	72
Keith—Thirty-fourth and Dearborn sts.,	1	37
Notre Dame—Notre Dame, Ind.,	3	36
West Pullman—West Pullman, Ill.,	1	37
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	1	35
Perkins Bass—W. Sixty-sixth st., corner S. May st.,	2	36
Sherwood—Princeton ave. and Fifty-seventh st.,	2	33
Ray—Fifty-seventh st. and Monroe ave.,	2	34
Normal—444 W. Sixty-ninth st.,	1	31
Ray—Fifty-seventh st. and Monroe ave.,	2	36
Walsh—W. Twentieth and Johnson sts.,	1	32
Emerald Avenue—Emerald ave. and W. Seventy-ninth st.,	2	51
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	4	63
Ray—Fifty-seventh st. and Monroe ave.,	2	30
Northwestern University—Evanston, Ill.,	1	40
J. N. Thorp—Superior ave. and Eighty-ninth st.,	3	30
Normal—444 W. Sixty-ninth st.,	1	58
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	4	65
Yale—Yale ave. and Seventieth st.,	2	35
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	4	61
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	79
Walsh—W. Twentieth and Johnson sts.,	1	40
Lewis-Champlin—W. Sixty-second st. and Princeton ave.,	1	46
J. N. Thorp—Superior ave. and Eighty-ninth st.,	3	58
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	4	58
Esmond Street—Morgan Park, Ill.,	7	62
Harrison—Twenty-third pl. and Wentworth ave.,	2	56
Englewood High—W. Sixty-second st., corner Stewart ave.,	1	154
Walsh—W. Twentieth and Johnson sts.,	1	32
St. Martin's—W. Fifty-ninth st., corner Princeton ave.,	8	187
Helen Heath Kindergarten—869 Thirty-third pl.,	5	33
J. R. Doolittle, Jr.—Thirty-fifth st., W. of Cottage Grove ave.,	1	38
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	36

Schools and Location.	Teachers.	Pupils.
Kershaw—Union ave. and W. Sixty-fourth st.,	1	34
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	39
Walsh—W. Twentieth and Johnson sts.,	1	42
Keith—Thirty-fourth and Dearborn sts.,	1	39
Sanders—Blue Island, Ill.,	2	62
Moody Bible Institute—80 Institute pl.,	1	79
Jones—Plymouth ct. and Harrison st.,	4	54
Fernwood—W. 104th and Wallace sts.,	2	42
Lincoln—Hammond, Ind.,	2	60
Normal—444 W. Sixty-ninth st.,	2	30
Keith—Thirty-fourth and Dearborn sts.,	2	35
South Division High—Twenty-sixth st. and Wabash ave.,	2	33
Bryant—S. Forty-first ave. and W. Thirteenth st.,	1	36
Chas. W. Earle—Sixty-first st. and Armitage ave.,	2	61
St. Bernard's—Sixty-sixth st. and Stewart ave.,	2	52
Lake Forest—Lake Forest, Ill.,	3	39
Walsh—W. Twentieth and Johnson sts.,	1	39
Riverside—Hammond, Ind.,	4	96
Walsh—W. Twentieth and Johnson sts.,	2	67
Seamore—Blue Island, Ill.,	1	33
Fernwood—W. 104th and Wallace sts.,	1	41
Myra Bradwell—Sherman ave. and Seventy-seventh st.,	1	32
Komensky—Throop and W. Twentieth sts.,	2	52
Normal—444 W. Sixty-ninth st.,	4	36
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	33
Raymond—Wabash ave. and Thirty-sixth pl.,	1	35
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	30
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	33
Myra Bradwell—Sherman ave. and Seventy-seventh st.,	1	39
Normal—444 W. Sixty-ninth st.,	2	40
Myra Bradwell—Sherman ave. and Seventy-seventh st.,	1	34
J. N. Thorp—Superior ave. and Eighty-ninth st.,	2	88
Fernwood—W. 104th and Wallace sts.,	2	31
Agassiz—Diversey and Seminary aves.,	2	67
Prescott—Wrightwood ave., corner N. Ashland ave.,	1	39
Taylor—Avenue J and Ninety-ninth st.,	2	71
W. C. Goudy—Foster ave., corner Winthrop ave.,	2	101
D. J. Corkery—W. Twenty-fifth and S. Forty-second ave.,	2	103
Cornell—Drexel ave. and Seventy-fifth st.,	1	35
Linne—Sacramento ave., corner W. School st.,	1	32
G. W. Curtis—114th pl., corner State st.,	1	41
University of Chicago,	1	48
University of Chicago,	2	35
University of Chicago,	1	35
Seward Vacation School—4758 S. Marshfield ave.,	1	40
University of Chicago,	1	40
John Spry Vacation School—Southwest boul. and W. Twenty-fourth st.,	4	194
Moody Bible Institute—80 Institute pl.,	1	54

Schools and Location.	Teachers.	Pupils.
Medill—W. Fourteenth pl. and W. Throop st.,	2	55
Kershaw—Union ave. and W. Sixty-fourth st.,	2	40
Chase—Cornelia ct. and Point st.,	1	48
Hyde Park High—Fifty-seventh st. and Kimbark ave.,	1	39
Hyde Park High—Fifty-seventh st and Kimbark ave.,	1	81

The following comparisons in the daily attendance for the year ending September 30, 1902, and the year ending September 30, 1903, may prove interesting:

	Increase.	Decrease.
Total Attendance,	32,714	...
Paid Attendance,	2,361	...
Attendance of School Children on Pay Days, . . . . .	.....	23
Attendance of Students,	201	...
Attendance of Teachers, . . . . .	.....	118
Attendance of Members, . . . . .	.....	97
Average Daily Attendance, 1902, . . . . .	.....	719
Average Daily Attendance, 1903, . . . . .	.....	809

Herewith are submitted financial statements, analysis of attendance, list of accessions, names of members, etc.

FREDERICK J. V. SKIFF,

DIRECTOR.

FINANCIAL STATEMENT.

RECEIPTS AND DISBURSEMENTS

During the Year Ending September 30, 1903.

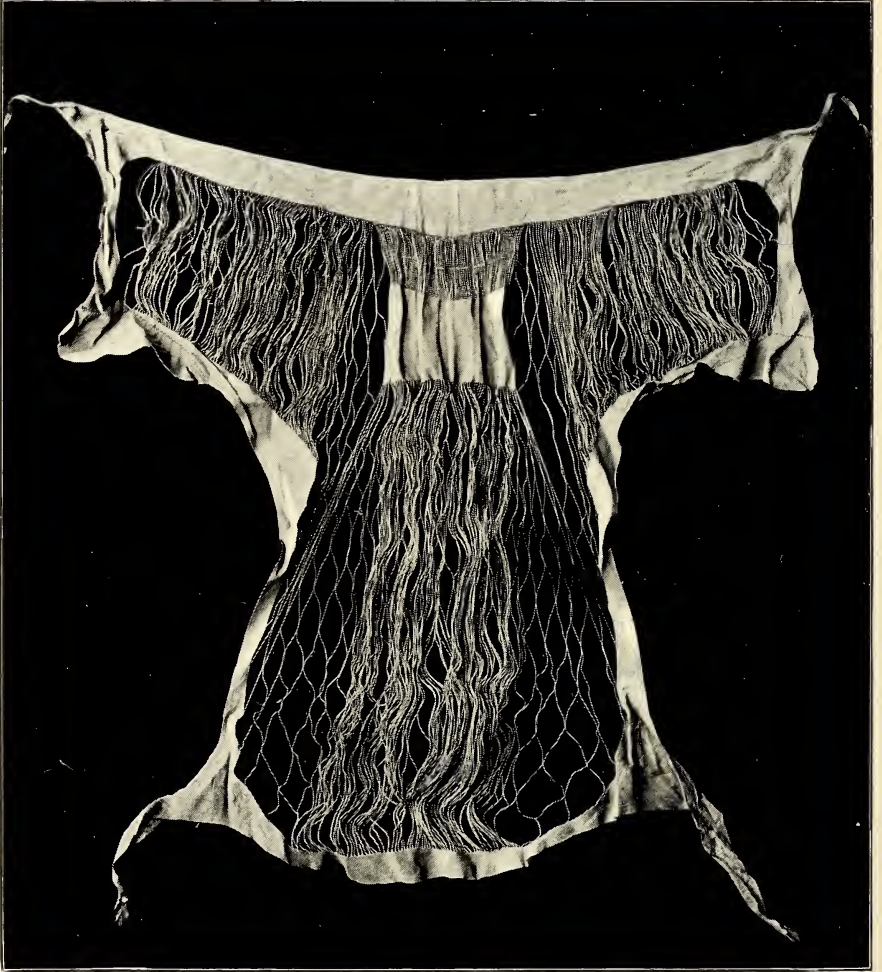
RECEIPTS.

Cash in Treasurer's hands, September 30, 1902,		\$4,089.66
Cash in Treasurer's hands, September 30, 1902 (Special Fund),		983.64
Petty Cash on hand, September 30, 1902,		739.95
Dues of Members—		
Corporate,	\$ 135.00	
Annual,	2,545.00	2,680.00
Admissions and Check Rooms,		7,494.65
Sale of Guides,		262.25
South Park Commissioners,		15,000.00
Chicago City Railway Co.,		2,250.00
Sundry Receipts,		771.74
Interest on Investments, etc.,		50,261.59
Sale of Securities,		67,000.00
Donations—		
Stanley McCormick (Special),	1,900.00	
W. J. Chalmers (Special),	10.00	1,910.00
		\$153,443.48

DISBURSEMENTS.

Salaries,		60,147.58
Guard Service,		11,839.87
Janitor Service,		6,288.04
Fire Protection,		2,954.27
Heat and Light—		
Wages,	\$3,287.26	
Fuel and Supplies,	4,967.74	
Additions to Plant,	271.02	8,526.02
Repairs and Alterations—		
Wages of Carpenters, Painters, Roofers,	9,223.92	
Materials used — Paints, Oils, Lumber, Plaster, etc.,	1,606.85	10,830.77
<i>Carried forward,</i>		\$100,586.55

<i>Brought forward,</i>		\$100,586.55
Furniture and Fixtures—		
Cases and Bases,	\$1,427.00	
Air Compressor,	764.82	
Sundries,	332.34	2,524.16
The Library—		
Books and Periodicals,	722.47	
Binding,	273.20	
Sundries,	63.33	1,059.00
Sections of Printing and Photography,		1,927.39
Collections and Articles Purchased,		6,806.29
Departmental Expenses,		3,500.95
General Expense Account—		
Freight, Expressage, and Teaming	2,085.72	
Stationery, Postage, Telegrams, and Telephone,	958.02	
Publications,	6,246.93	
Expeditions,	18,138.13	
Sundries,	1,233.83	28,662.63
		<hr/>
		\$145,066.97
In Treasurer's hands, September 30, 1903,	6,623.21	
In Treasurer's hands, September 30, 1903, Savings Account,	1,013.35	
Petty cash on hand, September 30, 1903,	739.95	8,376.51
		<hr/>
		\$153,443.48



ANCIENT EGYPTIAN PRIEST'S LEATHER CORSELET.

ATTENDANCE AND RECEIPTS FOR THE YEAR ENDING SEPT. 30, 1903

ATTENDANCE.

Paid Attendance—			
Adults,	. . . . .	23,873	
Children,	. . . . .	1,523	
		<hr/>	25,396
Free Admissions on Pay Days—			
School Children,	. . . . .	6,826	
Students,	. . . . .	3,008	
Teachers,	. . . . .	514	
Members—Corporate,	. . . . .	28	
Annual,	. . . . .	202	
Life,	. . . . .	7	
Officers' Families,	. . . . .	40	
Special,	. . . . .	139	
		<hr/>	10,764
Admissions on Free Days—			
Saturdays,	. . . . .	54,778	
Sundays,	. . . . .	204,352	
		<hr/>	259,130
Total Attendance,			295,290
Highest Attendance on any day (August 9, 1903),			9,374
Highest Paid Attendance on any day (September 29, 1903),			370
Average Daily Admissions (365 days),			809
Average Paid Admissions, (261 days),			97

RECEIPTS.

Guides sold—1,049 at 25 cents each,	. . . . .	\$262.25
Articles checked—27,482, at 5 cents each,	. . . . .	1,374.10
Admissions,	. . . . .	6,120.55
		<hr/>
		\$7,756.90

ACCESSIONS.

FROM OCTOBER 1, 1902, TO SEPTEMBER 30, 1903.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

AYER, E. E., Chicago.

Plaited fiber necklace, carved ivory pendant, and five carved ivory objects—Hawaii; large Roman fibula, Egyptian vase, Etruscan bottle, bowl—Rome.

DAVIS, T. M., Newport, R. I.

Priest's leather corselet—Egypt (deposit).

FIELD COLUMBIAN MUSEUM.

Collected by Geo. A. Dorsey:

Ethnological specimens from the Arapaho, Pawnee, Wichita, Arikara, Hopi, Tlingit, Pueblo.

Ethnological specimens from the Pawnee, Wichita, Hopi.

Collected by J. W. Hudson:

Ethnological collections from N. W. California.

Collected by C. F. Newcombe:

10 Nootka skeletons—Northwest Coast.

Ethnological collections from Northwest Coast.

Totem poles, baskets, stone, etc.—Northwest Coast.

Skulls and skeletons of Haida.

Collected by C. L. Owen:

Ethnological collections from White Mountain Apache—Arizona.

Skulls and skeletons of Apache—Arizona.

Collected by S. C. Simms:

Ethnological specimens from the Cree—Canada.

Ethnological specimens—Chippeway Indians—Minnesota.

Purchases:

Ethnological specimens from the Tlingit stock—Alaska.

Bone fighting knife, carved head on end of handle—Alaska.

Large spoon of mountain-goat horn—Alaska.

Photographs of Southwestern tribes.

Ethnological specimens—Africa.

Jade celt—Bahama Islands.

Grooved stone axe, found near the Black Hawk trail—Mercer Co. Illinois.

Tlingit and Haida baskets—Alaska.

16 stone vases and piece of glass—Egypt.

Mural panel decorations, silver vase, clay vessels—BoscoReale, Italy.

KIRK, MILTON B., Evanston, Ill.

Archæological specimens—Mitla, Mexico.

McCURDY, GEORGE G., New Haven, Conn.

Plaster cast of skull, *Pithecanthropus erectus*—Java.

PORTER, R. S., Chicago.

Moro saddle, bridle, etc.—Philippine Islands (deposit).

SETON-KARR, H. W., London, England.

Paleolithic implements—Pondi, near Madras, India.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.
 Plaster cast of sculptural stone yoke from Mexico (exchange).
 Pair of snow-shoes from Labrador (exchange).

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AYER, MRS. E. E., Lake Geneva, Wis.
 1 herbarium specimen—Wisconsin.
 2 herbarium specimens—Wisconsin.
- BEBB, ROBERT, 1742 W. 102d st., Chicago.
 218 herbarium specimens—Illinois, Indiana, and Wisconsin.
- BOTANSK HAVE, Christiania, Norway.
 1488 herbarium specimens—West Indies (exchange).
 362 herbarium specimens—West Indies (exchange).
 10 specimens woods, bark, and swizzle-sticks—Ecuador and Cuba (exchange).
- BOTANSK MUSEUM, Copenhagen, Denmark.
 106 herbarium specimens—West India Islands (exchange).
- BUREAU OF PLANT INDUSTRY, Washington, D. C.
 4 specimens *Cannabis sativa*, 1 specimen *Lactuca scariola*—Washington, D. C., and Ohio (exchange).
- CHASE, MRS. AGNES, Chicago.
 4 specimens mosses—Illinois and Indiana.
 17 herbarium specimens—various localities.
 238 herbarium specimens—various localities (exchange).
- CLARK, H. WALTON, Chicago.
 36 herbarium specimens—Chicago.
 1 herbarium specimen *Phanix dactylifera* L.
- CULMER, H. H., Chicago.
 9 specimens cotton products, 1 rubber substitute (linseed oil).
- EMERICK, DR. G. M., 5700 Kimbark ave., Chicago.
 3 herbarium specimens—Michoacan, Mexico.
 1 herbarium specimen—Mexico.
- FIELD COLUMBIAN MUSEUM.
 Collated by Mrs. Agnes Chase:
 1 herbarium specimen, *Cladium mariscus*—Missouri Botanical Garden.
 Collated by Chas. F. Millsbaugh:
 129 tracings, drawings, and parts of specimens.
 34 parts of herbarium specimens.
 Collected by Chas. J. Brand:
 10 specimens of fruits and twigs—Bemidji, Minn.
 Collected by Allen B. Burgess:
 235 herbarium specimens—Michigan.
 Collected by O. E. Lansing, Jr.:
 304 herbarium specimens—Illinois and Indiana.
 Purchases:
 390 herbarium specimens—Cuba.
 1 sample tincture benzoin.
 265 herbarium specimens—Oregon.
 274 herbarium specimens—Island of Margarita, Venezuela.
 375 herbarium specimens—Illinois.
 155 colored plates of plants.
 107 herbarium specimens—Isle of Pines, Cuba.
 386 herbarium specimens—Porto Rico.
 235 herbarium specimens—Mexico.
 579 herbarium specimens—various localities.
 490 herbarium specimens—Bahamas.
 669 herbarium specimens—Georgia.

- 33 herbarium specimens—Bahamas.
 1 specimen *Strobili Humuli*.
 1 specimen *Lupulin*.
 342 herbarium specimens—Cuba and Mexico.
 1 specimen *Cascarilla bark*.
 1 specimen gum *Euphorbia*.
 1 specimen *croton oil*.
 2312 herbarium specimens—Santa Marta, U. S. of Colombia.
 385 herbarium specimens—California.
 630 herbarium specimens—Mexico.
- FIELD, MARSHALL & CO., Chicago.
 31 samples of linens and cottons.
- FOSTER, EDWARD, Jamaica, West Indies.
 1 sample seeds of akee (*Blighia sapida*)—Jamaica.
 2 samples oil of akee (*Blighia sapida*)—Jamaica.
 1 sample oil of *Persea Persea*—Jamaica.
 1 sample clarified oil of *Persea Persea*—Jamaica.
- GRAY HERBARIUM, Cambridge, Mass.
 245 herbarium specimens (exchange).
 1 tracing and flowers of type *Aloe yuccæfolia Gray*.
 1 tracing of *Cakile monosperma Lang*.
 5 fragmental specimens of *Eupatorium*—various localities.
 1 fragmental specimen of *Eupatorium*—Mexico.
 5 fragmental specimens—Texas, Cuba, and Mexico.
 5 fragmental specimens—various localities (collated).
- GRIFFITHS, DAVID, Washington, D. C.
 1 sample seeds *Bouteloua Bromoides*—Arizona.
- HELLER, ARTHUR A., Lancaster, Pa.
 22 herbarium specimens—Porto Rico.
- HERRIOT, WILLIAM, Galt, Canada.
 21 herbarium specimens—Canada.
- HILL, E. J., 7100 Eggleston avenue, Chicago.
 1 herbarium specimen—Sussex, England.
- KNAPP, S. A., Lake Charles, La.
 1 photograph "Planting Rice"—Louisiana.
 1 photograph "Rice Mill"—Louisiana.
 1 photograph "Harvesting Rice"—Louisiana.
- KÖNIGL, BOTANISCHES MUSEUM, Berlin, Germany.
 1 fragmental specimen of *Eupatorium*—Cuba.
- MAYERHOFF, DR. PAUL S., Fort Apache, Arizona.
 25 specimens dried Indian plants—Fort Apache, Arizona.
- MCDONALD, FRANK E., Peoria, Ill.
 12 herbarium specimens—Illinois (exchange).
- MEXICAN COMMISSION TO WORLD'S COLUMBIAN EXPOSITION, 1893.
 1 algodon extrangero—Mexico.
 1 algodon collache—Mexico.
- MILLSPAUGH, CHAS. F., Chicago.
 1 sample South Carolina rice.
 1 sample flaked rice.
 1 sample rice flour.
 7 samples sugar products.
 42 sheets of typical specimens, drawings, and tracings
 24 tracings and drawings from plants—Yucatan.
 1 sample nuts *Fagus ferruginea*.
 3 samples fruits—Mexico.
 19 colored plates of fungi.
 1 sample strung figs—Southern Italy
 1 sample West Virginia peanuts
 1 sample Smyrna figs.

- MISSOURI BOTANICAL GARDEN, St. Louis, Mo.
3 fragmental specimens of *Eupatorium*—Mexico and Guatemala.
- NEWCOMBE, CHAS. F., Victoria, B. C.
31 herbarium specimens—Queen Charlotte Islands, B. C.
89 herbarium specimens—Alaska and British Columbia.
- NEW YORK BOTANICAL GARDEN, Bronx Park, New York.
45 herbarium specimens—various localities (exchange).
284 herbarium specimens—Porto Rico and Mexico (exchange).
4 specimens fruits in formaldehyde—Porto Rico and St. Kitts.
98 herbarium specimens—Mexico (exchange).
205 specimens mosses—various localities (exchange).
115 herbarium specimens—Colorado (exchange).
- NORWAY COMMISSION, WORLD'S COLUMBIAN EXPOSITION, 1893.
1 specimen sulphite pulp—Norway.
- OHIO STATE UNIVERSITY, Columbus, Ohio.
20 specimens fungi exsiccati—Ohio (exchange).
20 specimens fungi exsiccati—Ohio (exchange).
20 specimens fungi exsiccati—Ohio (exchange).
- PEPOON, DR. H. S., Chicago.
2 photographs of Lake Chicago Basin orchids.
- PUTNAM, F. W., New York City.
1 herbarium specimen—Southeastern Utah.
- RICKSECKER, A. E., Redfield, N. J.
4 herbarium specimens—Island of St. Croix, Danish W. I.
- RUFFNER, W. R., Chicago.
1 sample separation coffee—Mexico.
- SCHNECK, DR. JOSEPH, Mount Carmel, Ill.
1 sample persimmons in formaline.
1 sample, pods of *Gymnocladus Canadensis*.
1 sample, seeds of *Gymnocladus Canadensis*.
1 sample, seeds of *Castanea pumila*.
- SHERWOOD, GEORGE R., Chicago.
71 specimens illustrating the manufacture of paper from corn-stalks.
- UNITED STATES COMMISSION OF FISH AND FISHERIES, Wash-
ington, D. C.
128 herbarium specimens—Lake Maxinkuckee, Indiana.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
10 specimens North American violets (exchange).
5 fragmental specimens compositæ.
- VOTH, H. R., Oraibi, Arizona.
15 herbarium specimens "Plants of the Hopis"—Arizona.
- WALKER, T. B., Akeley, Minn.
6 specimens trunks and sections—Akeley, Minn.
16 specimens boards—Akeley, Minn.
- WESTGATE, J. M., Chicago.
63 herbarium specimens—various localities.
- WHITFORD, H. N., Chicago.
388 herbarium specimens—Montana.
- WORLD'S COLUMBIAN EXPOSITION, 1893.
1 specimen *Acacia Farnesiana* ("Huazache")—Oaxaca, Mexico.
- YOUNG, B. M., Morgan City, La.
15 specimens pecan nuts—Louisiana.

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- BAKER, H. V., Sawyer, Iowa.
 1 specimen fossil Sigillaria, 14 fossil corals, 5 fossil brachiopods, 12 fossil crinoids, 4 fossil gastropods (exchange).
- BÖHM, JULIUS, Vienna, Austria.
 429 grams Mukerop meteorite (exchange).
- BREZINA, DR. A., Vienna, Austria.
 1782 grams Sao Juliao meteorite (exchange).
- BRITISH MUSEUM (Natural History), London, England.
 54 grams Durala meteorite (exchange).
- CHALMERS, W. J., Chicago.
 1 specimen crystallized tourmaline—Mesa Grande, California.
- COHEN, E., Greifswald, Germany.
 0.91 grams Grossliebenthal meteorite; 1.95 grams Lixna meteorite; 0.85 grams Manbhoom meteorite; 40½ grams Mukerop meteorite (exchange).
- COOLIDGE, WINTHROP, Chicago.
 1 specimen platinum ore—Wyoming.
- DENVER & RIO GRANDE R. R. CO.
 238 specimens minerals and ores (loan).
- ELDREDGE, E. W., Chicago.
 1 specimen graphite with wall rock—Montana.
- ENGLISH, THOS. A., Spruce Pine, N. C.
 1 specimen garnet—Otto, N. C.
- FARGO, DR. J. F., Los Angeles, Cal.
 30 grams Sao Juliao meteorite (exchange).
- FIELD COLUMBIAN MUSEUM.
 Collected by H. W. Clark:
 4 specimens shells—Atlantic Coast and Chicago, Ill.
 Collected by O. C. Farrington:
 2 specimens oölitic hematite—Kentucky.
 Collected by J. W. Hudson:
 1 specimen smoky quartz—California.
 1 specimen crystallized quartz—California.
 Collected by S. E. Meek:
 4 specimens magnetite.
 23 specimens martite.
 119 specimens crystallized apatite—Mexico.
 Collected by H. W. Menke:
 1 lot of Permian vertebrate fossils—Oklahoma.
 Collected by H. W. Nichols:
 609 specimens minerals.
 100 specimens ores.
 10 specimens fossils.
 5 specimens rocks and rock structure—Southern States.
 Collected by A. W. Slocom:
 2 modern skeletons—Chicago.
 2 modern bryozoans—Chicago.
 6 specimens sandstone, 1 specimen concretion, 5 specimens brick clay,
 796 specimens Cambrian and Trenton invertebrate fossils—Wisconsin.
- Purchases:
 2 specimens precious opal—Honduras.
 1 specimen dendritic opal—Grand Cañon.
 3 specimens smoky quartz, 1 specimen green tourmaline, 4 specimens distorted quartz—Paris, Maine.



CROW SHIELDS OF BUFFALO HIDE.

- 2 specimens bertrandite—Colorado.
- 1 specimen epidote and quartz—Ketchikan, Alaska.
- 7 specimens fossils.
- 4 specimens agate.
- 1 specimen opal.
- 192½ grams Ergheo meteorite.
- 366 grams Bath Furnace meteorite.
- 12 specimens thomsonite—Grand Marais, Minn.
- 1 specimen trilobite track—Georgia.
- 11 specimens massive turquoise—Arizona.
- 15 specimens cut turquoise—Arizona.
- 404 grams Morristown meteorite.
- 137 grams Majalahti meteorite.
- 1 cast of Bath Furnace meteorite.
- 1 specimen of *Nyctosaurus gracilis*.
- 68 grams Bath Furnace meteorite.
- 13 specimens minerals.
- 3 specimens fossil plants—Fossil, Wyoming.
- 4 specimens fossil fish—Fossil, Wyoming.

HARTWELL, GEORGE H., Chicago.

- 1 specimen fuller's earth—Arkansas.
- 2 specimens brick-clay—Illinois.

HEFFERN, ALBERT, Sherman, Wyoming.

- 1 specimen garnet in quartz—Wyoming.

HILL, L. E., Marion, Iowa.

- 1 specimen *Arca*—Iowa (exchange).

HUDSON, J. W., Field Columbian Museum.

- 1 specimen crystallized gold—Placerville, California, (loan).

JOHNSTON, W. M., Chicago.

- 2 specimens cerussite, 1 specimen galena—Mexico and Missouri.

KENKEL, LOUIS V., Chicago.

- 1 specimen siliceous gold ore—Terry, S. D.

K. K. NATURHISTORISCHES HOF-MUSEUM, Vienna, Austria.

- 25 grams Prairie Dog Creek meteorite (exchange).

McCALLIE, S. W., Atlanta, Ga.

- 65 specimens barite, 7 specimens ores, 1 group fossil shells—Georgia.

MITCHELL & CO., Srinagar, Kashmir, India.

- 4 specimens fossil bryozoa—India.

NEUMANN, MAX, Graz, Austria.

- 1.45 grams Aleppo meteorite, 0.559 grams Gross-Divina meteorite,
0.70 grams Chassigny meteorite, 0.25 grams Siena meteorite,
23.5 grams Zavid meteorite (exchange).

NYSTROM, WALFRED, Chicago.

- 1 specimen cerussite—Montana (loan).

PARIS EXPOSITION OF 1900.

- Silver medal awarded exhibit of "Crystals."

SCOTT, W. M., Atlanta, Ga.

- 3 specimens minerals, 25 specimens ores, 1 fossil, 1 concretion—Georgia.

SMITH, LON P., La Grange, Ga.

- 1 specimen tourmaline—Georgia.
- 3 specimens crystallized beryl—Georgia.

STUART, WALTER, Anakie, Queensland, Australia.

- 1 specimen uncut green sapphire—Australia.

STÜRTZ, B., Bonn, Germany.

- 370½ grams Locust Grove meteorite, 384 grams Forsyth Co. meteorite, 96.7 grams Rasgata meteorite (exchange).

- SVEGE, A. E. J., Chicago.
1 specimen marcasite concretion.
- UNITED STATES MARBLE CO., Spokane, Washington.
1 polished slab of serpentine marble, variety "Canyon green."
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
594 grams Admire meteorite, 1,000 grams Mt. Vernon meteorite (exchange).
- UNIVERSITY OF CHICAGO, Chicago.
199 specimens (3 species) small carboniferous brachiopods—Louisiana, Mo.
- WARD, HENRY A., Chicago.
352 grams Bacubirito meteorite, 214 grams Gilgoin meteorite, 295 grams Baratta meteorite, 810 grams Arispe meteorite, 407 grams Reed City meteorite (exchange).
- WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.
99 grams Mooranoppin meteorite, 33 grams Caille meteorite, 10.6 grams Lesves meteorite, 28 grams Tysnes meteorite (exchange).
- WESTERN MINING CO., Leadville, Colorado.
1 specimen calamine—Colorado.
- WILLARD, NORMAN P., Chicago.
1 specimen carnotite (uranium ore)—Colorado.
- WILLISTON, S. W., Chicago.
2 photographs of skeletons of fossil reptiles.
- WOODLE, E. R., Chicago.
1 specimen crystallized rhodochrosite—Butte, Montana.

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AKELEY, MRS. WARD B., Chicago.
Nest and four eggs of barn swallow—New York.
- CASE, MISS ELIZABETH, Chicago.
1 parrot—Brazil.
- CLARK, H. W., Chicago.
1 sora—Chicago.
1 red-breasted merganser—Chicago.
1 cat bird—Chicago.
- FIELD COLUMBIAN MUSEUM.
Collected by Geo. F. Breninger:
144 bird skins, nests, and eggs—Phoenix, Ariz.
625 bird skins, nests, and eggs—California.
516 bird skins, nests, and eggs, —Huachuca Mountains, Arizona.
44 bird skins, nests, and eggs—Fairbank, Ariz.
- Collected by N. Dearborn:
1 junco, 1 rusty blackbird, 1 long-billed marsh wren, 1 robin—Chicago.
18 bird skins—Chicago.
18 bird skins—Chicago.
- Purchases:
1 black grouse—Europe.
1 ostrich—California.
2 loons—Wisconsin.
1 loon—Illinois.
2 woodcocks, 1 ruddy duck, 1 black duck—Illinois.
1 red-legged dusky duck—Illinois.
29 bird skins.
1 Hawaiian petrel—Porto Santo, H. I.
1 wood duck—Illinois.
12 sets eggs, containing 43 specimens.

- KENKEL, L. V., Chicago.
 Nest of yellow warbler—Chicago.
 1 egg of yellow warbler—Chicago.
 1 egg of cowbird—Chicago.
- LAKE FOREST COLLEGE, Lake Forest, Ill.
 10 bird skins—Cameroons, West Africa.
- LARKIN, T. J., Chicago.
 1 nest of chipping sparrow—Saugatuck, Mich.
 1 nest and 2 eggs of phoebe—Saugatuck, Mich.
- ROWLEY, J., Los Angeles, Cal.
 43 bird skins—Sonora, Mexico.

DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- BEAN, DR. T. H., St. Louis, Mo.
 92 specimens Bermuda land shells, representing 18 species.
- BRAND, CHAS. J., Chicago.
 2 beetles, 1 sawfly—Chicago.
- BURT, J. A., Chicago.
 33 beetles and larvæ—Montana.
- CHOPE, E. B., Chicago.
 1 beetle, 1 grasshopper, 1 bug—Chicago.
 66 specimens flies, beetles, moths, bugs, wasps, parasites, etc.—various localities.
- CLARK, H. W., Chicago.
 74 specimens beetles, bugs, parasites, flies, and grasshoppers—Illinois and Indiana.
- CROWTHER, CHAS., Chicago.
 1 parasite—Chicago.
- DOHMEN, U. A., Chicago.
 1 beetle, 1 parasite—Chicago.
 13 specimens beetles, flies, cockroaches, centipede, etc.—Chicago.
 5 snail shells—Watertown, N. Y.
- EIGENMANN, DR. C. H., Bloomington, Ind.
 105 specimens fishes—Cuba (exchange).
- EMRICK, DR. G. M., Chicago.
 18 specimens beetles, centipedes, scorpions, lizards, spiders, etc.—Mexico.
- FIELD COLUMBIAN MUSEUM.
 Collected by N. G. Buxton:
 46 specimens rodents—Mexico.
 44 specimens rodents and carnivores—Mexico.
 7 squirrels, 1 opossum—Mexico.
 Collected by W. J. Gerhard:
 48 specimens flies, beetles, bugs, moths, grasshoppers, wasps, etc.—Chicago.
 164 specimens grasshoppers, bugs, moths, ants and beetles—Illinois.
 164 specimens spiders, grasshoppers, bees, beetles, wasps, parasites, etc.—Illinois and Indiana.
 193 specimens centipedes, spiders, flies, beetles, bugs, bees, wasps, butterflies, etc.—Illinois.
 472 specimens dragon-flies, mayflies, moths, ants, and parasites—Chicago.
 528 specimens spiders, millipedes, butterflies, grasshoppers, bugs, bees, wasps, etc.—Willow Springs, Ill.
 90 specimens beetles, flies, moths, spiders, bugs, parasites, etc.—Glen Ellyn, Ill.

Collected by E. Heller:

- 478 specimens mice, squirrels, chipmunks, bats, deer, wolves, wild cats, skunks, etc.—Lower California.
- 398 specimens skunks, coons, foxes, rabbits, ground squirrels, wood rats, voles, bats, gophers, etc.—California.
- 347 specimens rabbits, foxes, pocket mice, gophers, jumping mice, chipmunks, etc.—California.
- 339 specimens lizards, horned toads, snakes, turtles, and fishes—Death Valley, California.
- 123 specimens horned toads, lizards, snakes, and fishes—California.

Collected by S. E. Meek:

- 1 ocelot (species of tiger)—Mexico.
- 71 specimens waterbugs, grasshoppers, scorpion, water-beetles, etc.—Canada and Mexico.
- 242 specimens shells—Mexico.
- 3,599 specimens fishes, lizards, snakes, frogs, toads, turtles, and salamanders—Mexico.
- 179 specimens crayfishes, shrimps, and crabs—Mexico.

Purchases:

- 1 squirrel, 1 monkey, 1 civet cat.
- 2 Kadiak bear skins.
- 2 Isabella foxes—Alaska.
- 9 rabbits, 8 prairie dogs, 1 gopher, 3 chipmunks, 2 mice—Colorado.
- 12 squirrels, 4 skunks, 14 rabbits, 1 gopher, 18 mice—California.
- 1 fox skin and skull—California.
- 13 rabbits, 13 ground squirrels, 10 gophers, 53 mice, 3 shrews—California.
- 1,149 specimens bees, wasps, ants, and parasites—various localities.
- 1 Maria antelope (water buck)—Africa.
- 9 gophers, 10 ground squirrels, 3 weasels, 17 rats, 5 rabbits, 228 voles, 4 muskrats, 4 martens, 68 mice, 21 jumping mice, 36 shrews, 7 chief hares, 13 chipmunks—Boulder, Colo.
- 7 ground squirrels, 4 jack rabbits, 1 rabbit, 6 gophers, 9 rats, 7 bats, 5 jumping mice, 33 mice—Sonora, Mexico.
- 87 butterflies and moths, 35 insects—Africa.
- 1 fox skin and skull.
- 28 squirrels, 34 ground squirrels, 15 chipmunks, 1 flying squirrel, 7 mice, 3 kangaroo rats, 5 gophers, 6 pouch rats, 2 wood rats, 1 raccoon, 1 opossum, 15 rabbits, 9 hares, 1 fox, 1 peccarie, 10 mongoose—Mexico.
- 9 sowbugs, 1 peripatus, 1 spider, 1 centipede, 30 millipedes, 15 grasshoppers, 69 bugs, 18 beetles, 67 ants, bees, and wasps, 16 snails, 21 fishes, 12 lizards—South America.

FISCHER, J. E., Chicago.

- 1 dragon-fly—Chicago.

GERHARD, W. J., Chicago.

- 1 flying squirrel—Willow Springs, Ill.

HORNIG, HERMAN, Philadelphia, Pa.

- 54 specimens flies, bees, wasps, parasites, beetle larvae, etc.—Pennsylvania and New Jersey.
- 152 specimens millipedes, termites, grasshoppers, bees, wasps, ants, beetles, etc. Pennsylvania and New Jersey.

HUDSON, J. W., Chicago.

- 1 mountain lion skull, 1 wild cat skull, 1 wolf skull—California.

HUME, J. A., Chicago.

- 1 dragon-fly—Chicago.

KENKEL, L. V., Chicago.

- 1 skeleton of mink.
- 161 specimens bees, wasps, parasites, bugs, beetles, moths, butterflies, etc.—Illinois.
- 1 dragon-fly—Chicago.

- LARKIN, T. J., Chicago.
30 specimens beetles, ants, bees, plant lice, etc.—Michigan.
1 beetle, 1 roach—Chicago.
- MASON, C. K., Chicago.
1 bot-fly larva—Colorado.
- MILLSPAUGH, CHAS. F., Chicago.
2 flies—Chicago.
1 beetle, 30 water-beetles—Chicago.
- MORRIS, EDWARD, Chicago.
2 wild cats.
- NORRIS, PHILIP, Chicago.
1 bat—Chicago.
1 bumble-bee—Chicago.
1 bug, 1 beetle—Chicago.
- NORRIS, VIOLET, Chicago.
1 garter snake—Chicago.
- OGDEN, DR. H. V., Milwaukee, Wis.
6 specimens fishes—Totacatie, Wis.
- PERIOLAT, C. F., Chicago.
2 blue bear skins.
- PETERSEN, JAMES F., Chicago.
1 beetle, 1 horn-tail—Chicago.
- ROEHRIG, DR. G. E., Chicago.
1 rattlesnake—Pine Mountains, Ky.
1 house snake—Southern United States.
- ROMANO, JOSEPH, Chicago.
1 moth—Chicago.
- SANBORN, MISS CORA A., Chicago.
1 lantern-fly—Mexico.
- SLOCOM, A. W., Chicago.
2 flies—Chicago.
1 spider, 1 dragon-fly—Chicago.
- SNOW, E. W., Chicago.
1 ichneumon fly—Fremont, Neb.
- STEINDACHNER, DR. FRANZ, Vienna, Germany.
158 specimens (93 species) fishes—Europe (exchange).
- STEPHENSON, F. M., Menominee, Wis.
1 cinnamon bear skull—Chihuahua, Mexico.
1 deer skin and skull—Fence River, Mich.
- THOMAS, GRIFFITH, Chicago.
1 beetle—Chicago.
- TIETZEL, G. R. J., Chicago.
1 spider—Chicago.
- TRIGGS, CHAS. W., Chicago.
1 octopus—Seattle, Wash.
- UNITED STATES FISH COMMISSION, Washington, D. C.
270 specimens fishes—Hawaii.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
2 bats (exchange).
- WALSH, P., Chicago.
1 ichneumon fly, 1 dragon-fly—Chicago.
- WHYTE, J. ALLEN, Chicago.
1 Spitz dog—Chicago.
- WILLIAMSON, E. B., Bluffton, Ind.
107 dragon-flies—various localities.

WOLCOTT, A. B., Chicago.

1 bat—Glen Ellyn, Ill.

43 specimens ichneumon flies, beetles, roaches, flies, bugs, etc.—Illinois.

33 specimens ants, dragon-flies, bugs, beetles, etc.—Chicago, Ill.

83 specimens bugs, beetles, bees, parasites, etc.—Glendon Park, Ill.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Made by Chas. J. Brand:

28 negatives, North American forestry.

Made by C. H. Carpenter:

167 negatives, Cheyenne Sun Dance.

Made by Geo. A. Dorsey:

222 negatives, Cheyenne Sun Dance.

Made by O. C. Farrington:

30 negatives, views of landscapes, etc.—Kentucky.

Made by J. W. Hudson:

138 negatives, California Indians.

Made by S. E. Meek:

362 negatives, illustrating Mexican scenery and customs.

Made by H. W. Menke:

3 negatives, Permian fossil beds.

Made by Chas. F. Millspaugh:

30 negatives, plants and landscapes.

Made by Chas. F. Newcombe:

36 negatives, North West Indians.

Made by H. W. Nichols:

133 negatives, Appalachian Mountain views.

Made by S. C. Simms:

48 negatives of Crow Indians.

SCOFIELD, C. S., Washington, D. C.

1 negative, wild-rice field.

THE LIBRARY.

(ACCESSIONS ARE BY EXCHANGE UNLESS OTHERWISE DESIGNATED.)

Books, Pamphlets, and Serials.

ACIREALE. REALE ACCADEMIA DI SCIENZE, Acireale, Italy.

Atti e rendiconti. n. s. v. 8-10.

Rendiconti e memorie. ser. 3. v. 1. 1901-02.

1 pamphlet.

ADLER, E. U., London, England.

Diccionario geografico de la Republica de Chile.

ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Ala.

Bulletin, current numbers.

ALABAMA GEOLOGICAL SURVEY, University, Ala.

Bulletin No. 7.

ALBANY MUSEUM, Grahamstown, South Africa.

Records of the Albany Museum, vol. 1, pt. 1.

ALTONAER MUSEUM, Altona, Germany.

Mitteilungen, 1902, nos. 1-3.

AMBROSETTI, JUAN B., Buenos Ayres, Argentina.

El sepulcro de "La Baya."

4 reprints.

AMERICAN ACADEMY OF ARTS AND SCIENCES, Boston, Mass.

Proceedings, current numbers.



GROUP OF PRAIRIE CHICKEN.

- AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass.
Proceedings, vol. 15, pts. 1-2.
- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,
Washington, D. C.
Preliminary announcement 52d meeting.
Proceedings, Pittsburg meeting, vol. 51.
- AMERICAN CHEMICAL JOURNAL, Baltimore, Md.
Journal, vol. 29.
- AMERICAN FOLK-LORE SOCIETY, Cambridge, Mass.
Journal, vols. 59-60.
- AMERICAN FORESTRY ASSOCIATION, Washington, D. C.
Forestry and irrigation, current numbers.
- AMERICAN GEOGRAPHICAL SOCIETY, New York City.
Bulletin, current numbers.
- AMERICAN INSTITUTE OF HOMEOPATHY, Cleveland, Ohio.
Transactions, 1902.
- AMERICAN INVENTOR PUBLISHING COMPANY, New York City.
American inventor, current numbers.
- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
Annual report, 1902.
Bulletin, vol. 16.
List of papers published in the bulletin, and memoirs, vols. 1-16.
Memoirs, anthropology, vol. 4, pts. 1-2.
- AMERICAN NUMISMATIC AND ARCHÆOLOGICAL SOCIETY, New
York City.
Proceedings and papers, 45th annual meeting, 1903.
- AMERICAN ORIENTAL SOCIETY, New Haven, Conn.
Journal, vol. 23, pt. 2.
- AMERICAN PHILOSOPHICAL SOCIETY, Philadelphia, Pa.
Proceedings, vol. 41, Nos. 171-172.
- AMERICAN SOAP JOURNAL, Milwaukee, Wis.
Journal, current numbers (gift).
- AMSTERDAM. K. AKADEMIE VAN WETENSCHAPPEN, Amsterdam,
Netherlands.
Proceedings, section of sciences, vol. 4.
Verhandelingen, vol. 8; vol. 9, nos. 1-3.
Verslagen van de gewone vergadering, vol. 10.
- AMSTERDAM. UNIVERSITEITS BIBLIOTHEEK, Amsterdam, Nether-
lands.
Catalogus handschriften, pt. 2.
Report of librarian, 1902.
17 inaugural dissertations.
- ANDOVER THEOLOGICAL SEMINARY, Andover, Mass.
Catalogue, 1902-03.
- ANDREE, RICHARD, Braunschweig, Germany.
Globus, vol. 82.
- ANGERS. SOCIÉTÉ D'ÉTUDE SCIENTIFIQUES, Angers, Maine-et-Loire,
France.
Bulletin, vol. 31.
- ANNALES DES MINES, Paris, France.
Annales, current numbers.
- ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRE-
LAND, London, England.
Journal, current numbers.
- ARCHITECTS' AND BUILDERS' MAGAZINE, New York City.
Magazine, current numbers.

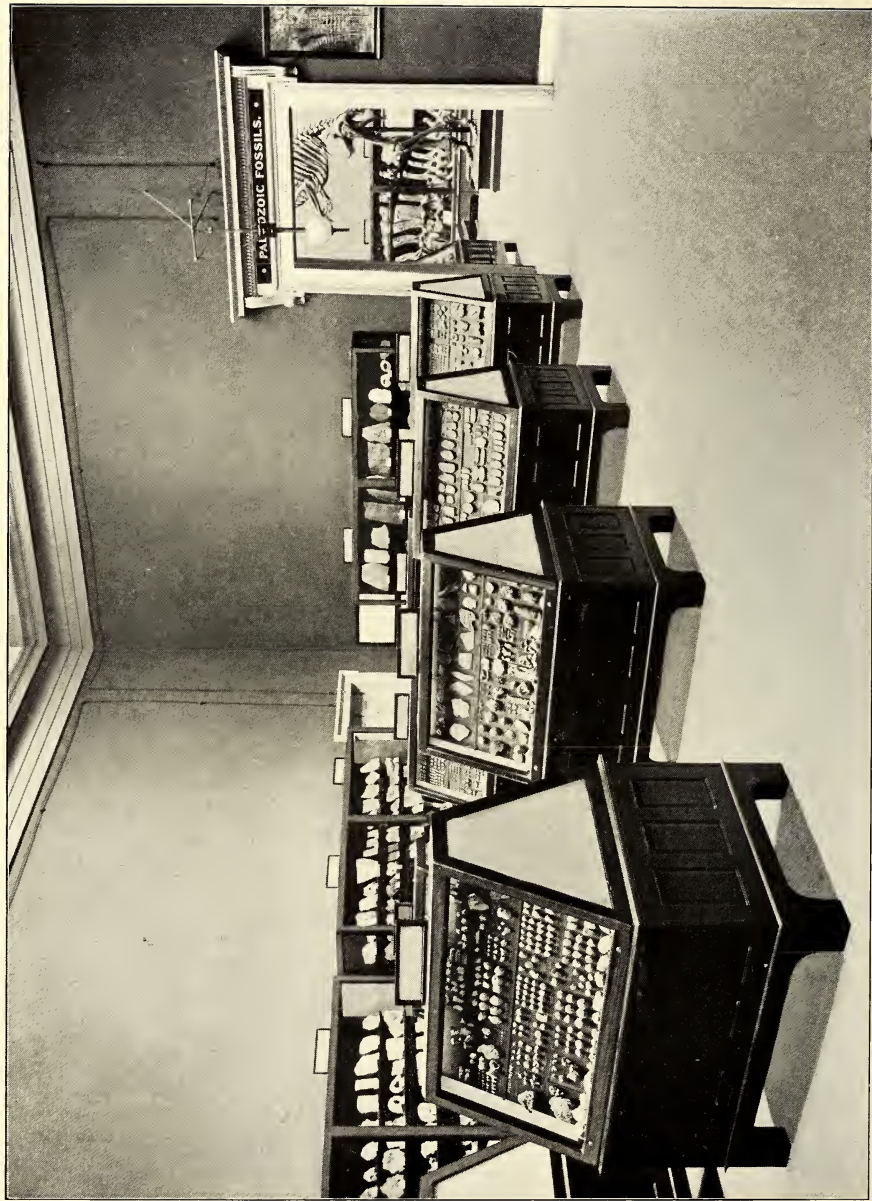
- ARIZONA AGRICULTURAL EXPERIMENT STATION, Tucson, Arizona.
Annual report, 13th.
Bulletin, current numbers.
- ARMOUR INSTITUTE OF TECHNOLOGY, Chicago, Ill.
Yearbook, 1903-04.
6 pamphlets.
- ARTHUR, J. C., Lafayette, Ind.
6 pamphlets.
- ASIATIC SOCIETY OF BENGAL, Calcutta, India.
Journal, current numbers.
Proceedings, current numbers.
- ASSOCIATION OF ENGINEERING SOCIETIES, Philadelphia, Pa.
Journal, current numbers.
- ATCHISON, TOPEKA & SANTA FE RAILWAY, Chicago, Ill.
Grand Cañon of Arizona.
- AUCKLAND INSTITUTE AND MUSEUM, Auckland, New Zealand.
Annual report, 1899-1902.
- AUGSBERG. NATURWISSENSCHAFTLICHER VEREIN FÜR
SCHWABEN UND NEUBERG, Augsburg, Germany.
Bericht, vol. 35, 1902.
- AUSTRALIA. ROYAL ANTHROPOLOGICAL SOCIETY, Sydney, Australia.
Science of man, current numbers.
- AUSTRALIAN MUSEUM, Sydney, Australia.
Records, vol. 5, no. 1.
Report of the curator, 1901.
Report of the trustees, 1901.
Special catalogue, no. 3.
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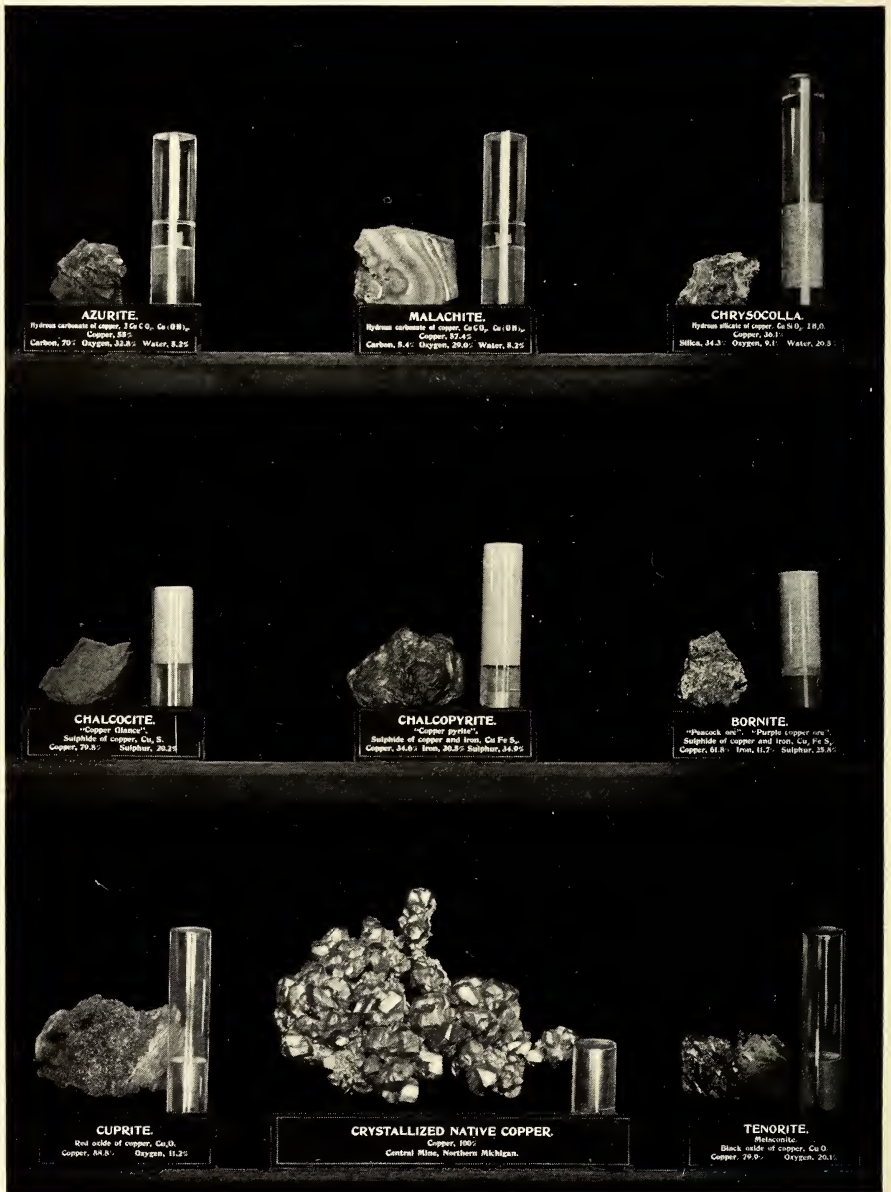
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- RAILWAY REVIEW PUBLISHING COMPANY, Chicago, Ill.
Railway review, current numbers (gift).
- RANDALL T. A. AND COMPANY, Indianapolis, Ind.
Clay worker, current numbers (gift).
- RECLUS, E., Paris, France.
1 pamphlet.
- RED METEOROLOGICAL Y REVISTA CIENTIFICA, Toluca, Mexico.
Boletin, current numbers.
- REGALIA, E., Florence, Italy.
1 reprint.
- REID, J. A., Berkeley, Cal.
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- REVISTA DE LA INSTRUCTION PUBLICA MEXICANA, Mexico, Mex.
Revista, current numbers (gift).
- REVUE GENERALE DES SCIENCE, Paris, France.
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GROUP OF SPOTTED HYENAS (*HYAENA CROCUTA*).

- RHODE ISLAND AGRICULTURAL EXPERIMENT STATION, Kingston,
R. I.
Bulletin, current numbers (gift).
- RICHET, CHARLES, Paris, France.
Revue scientifique, current numbers.
- RIES, H., Ithaca, N. Y.
Lime and cement industries of New York.
4 pamphlets.
- RIPON COLLEGE, Ripon, Wis.
Bulletin no. 10 (gift).
- ROCHESTER ACADEMY OF SCIENCES, Rochester, N. Y.
Proceedings, current numbers.
- ROBINSON, B. L., Cambridge, Mass.
Flora of the Galapagos Islands.
- ROME. REALE ACCADEMIA DEI LINCEI, Rome, Italy.
Atti, current numbers.
Rendiconti, current numbers.
- ROSENGARTEN, J. G., Philadelphia, Pa.
2 reprints (gift).
- ROSE POLYTECHNIC INSTITUTE, Terre Haute, Ind.
Annual catalogue, 21st.
- ROYAL ASIATIC SOCIETY. CEYLON BRANCH, Colombo, Ceylon.
Journal, vol. 17, no. 53.
- ROYAL ASIATIC SOCIETY. STRAITS BRANCH, Singapore.
Journal, nos. 38-39.
- ROYAL HORTICULTURAL SOCIETY, London, Eng.
Journal, vol. 27.
- ROYAL SOCIETY OF EDINBURGH, Edinburgh, Scotland.
Proceedings, vol. 23, 1899-1901.
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1 pamphlet.
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Bulletin, n. s., vol. 1, nos. 1-2.
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Bulletin, vol. 13, nos. 4-5; vols. 15-17, nos. 1-4.
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- SALEM PUBLIC LIBRARY, Salem, Mass.
Annual report, 14th.
Bulletin, current numbers.
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Cal.
Annual report, 31st, 1902 (gift).

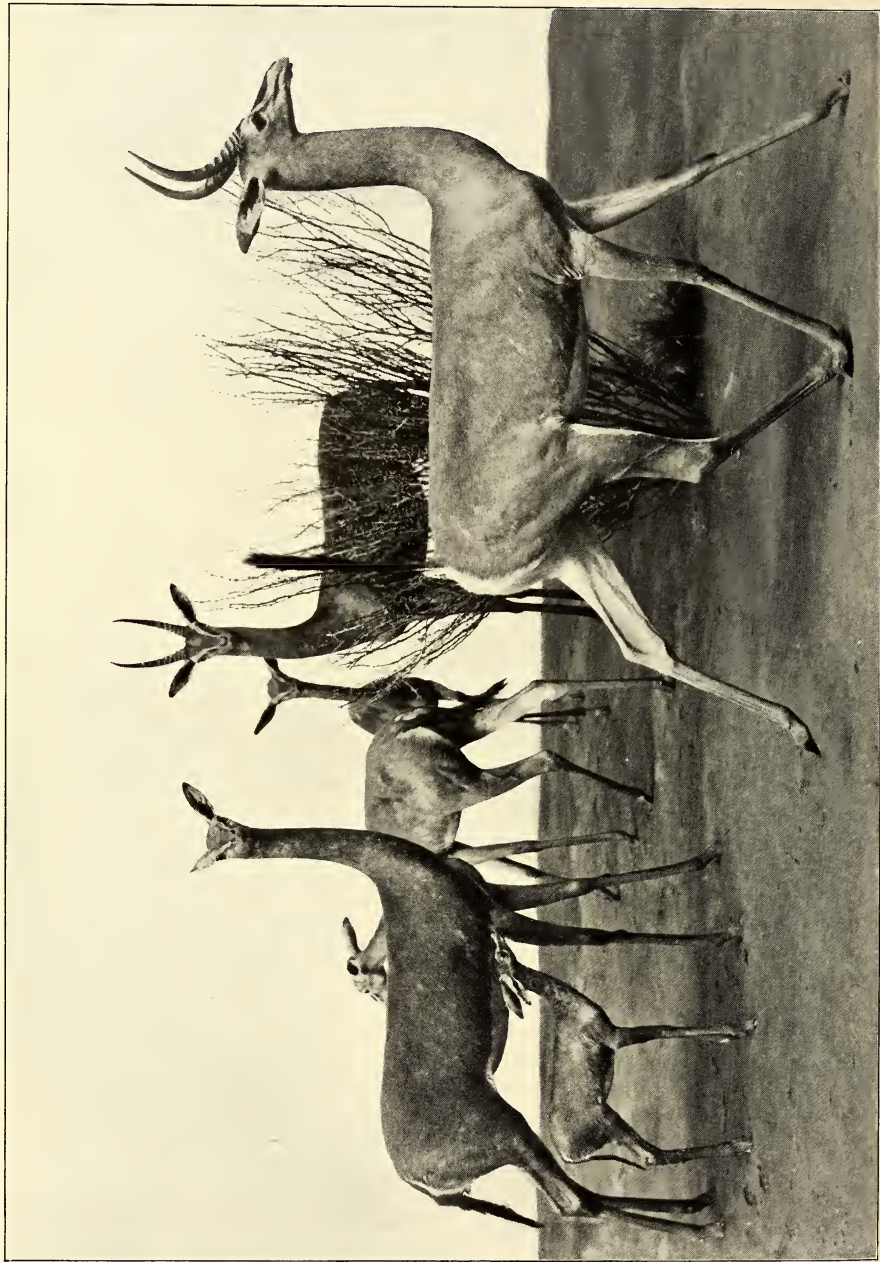
- SARAWAK MUSEUM, Borneo, India.
Report, 1901-02.
8 pamphlets.
- SCHALLER, W. T., Berkeley, Cal.
1 reprint.
- SCHUCHERT, CHARLES, Washington, D. C.
3 reprints.
- SCOTT, C. F., Pittsburg, Pa.
1 pamphlet.
- SEEBER, FRANCISCO, Buenos Aires, Argentina.
1 pamphlet (gift).
- SELER, EDUARD, Berlin, Germany.
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- SKIFF, F. J. V., Field Columbian Museum.
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- SLONAKER, J. R., Chicago, Ill.
4 reprints.
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- SMITH, J. D., Baltimore, Md.
Enumeratio plantarum Gautemalensium, pt. 6.
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Annals of the astrophysical observatory, vol. 1.
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Bulletin, vol. 39, pt. A-Q; vol. 47, pts. 1-4; vol. 50, pt. 2.
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Boletin, vol. 2, 1902.
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Atti, vols. 37-42, fasc. 1.
Memoires, vols. 1-6, 1865-1901.
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Atti, vol. 11.
Rendiconti, current numbers.
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Atti, vol. 19.

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Journal, vol. 2, no. 4.
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Bulletin, ser. 3, vol. 3, nos. 2-4; vol. 4, nos. 1-2.
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Bulletin, current numbers (gift).
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Board of education report, 46th.
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Proceedings, current numbers.
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Bericht, 1901-02.
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- STRASSBURG. KAISER-WILHELMS-UNIVERSITÄT, Strassburg, Ger-
many.
20 inaugural dissertations.
- STRETTON, C. E., Leicester, England.
5 papers.
- SYDERE, A. H., Toronto, Ontario.
56 government reports.
- TAYLOR, W. W., Cincinnati, Ohio.
1 pamphlet (gift).
- TEPPER, J. G. O., Norwood, South Australia.
8 reprints.
- TEXAS ACADEMY OF SCIENCE, Austin, Texas.
Transactions, vol. 4, pt. 2, nos. 1-9.
- TEXAS AGRICULTURAL EXPERIMENT STATION, College Station,
Texas.
Bulletin, current numbers (gift).
- TEXAS UNIVERSITY, Austin, Texas.
Terlingua quicksilver deposits, Brewster County, Bulletin no. 4.
- THAXTER, ROLAND, Cambridge, Mass.
2 reprints.
- THEOSOPHICAL SOCIETY, Chicago, Ill.
Theosophical review, current numbers (gift).
- TOKYO BOTANICAL SOCIETY, Tokyo, Japan.
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- TORINO. MUSEI DI ZOOLOGIA ED ANATOMIA COMPARATA, Torino,
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Biological series, no. 3.
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Das nashorn von Hundsheim (gift).
- TOWER, W. L., Chicago, Ill.
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- TRING. ZOÖLOGICAL MUSEUM, Tring, England.
Novitates zoölogicæ, current numbers.
- TRINITY COLLEGE, Dublin, Ireland.
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Report, 1901-02.
- TRONCOSO, F. DEL PASO Y., Mexico, Mexico.
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Norway.
Skrifter, 1901.
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8 pamphlets.
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Bureau of Animal Industry, report, 17-18.
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45 pamphlets.
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Commercial relations, vol. 2.
Consular reports, current numbers.
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Bulletin, vols. 20-21, 1900-01.
Report, 1901-02.
Reprints, nos. 500-518; 523-536.
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Report, 1899, pt. 1; 1900-01, pt. 1.
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Division of bibliography: Select lists of references compiled by A. P. C. Griffin.
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Annual report secretary on finances, 1902.
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Bulletin of the Geological Institution, vol. 5, pt. 1, no. 9; pt. 2, no. 10.
3 pamphlets.
- VALENTINE MUSEUM, Richmond, Va.
Report of the exploration of the Hayes' Greek Mound, Rockbridge County, Va.
- VANDERBILT UNIVERSITY, Nashville, Tenn.
Quarterly, current numbers.
- VAN HISE, C. R., Madison, Wis.
1 pamphlet.
- VERMONT AGRICULTURAL EXPERIMENT STATION, Burlington, Vt.
Annual report, 15th.
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Calendar, 1902-04.
- VIRCHOW, H., Berlin, Germany.
Über Tenon'schen raum und Tenon'sche Kapsel.
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Bulletin, current numbers (gift).
- VIRGINIA UNIVERSITY, Charlottesville, Va.
Bulletin, current numbers (gift).
- WABASH COLLEGE, Crawfordsville, Ind.
Catalogue, 1902-03.
- WAGNER FREE INSTITUTE OF SCIENCE, Philadelphia, Pa.
Transactions, vol. 2.
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Proceedings, current numbers.



GROUP OF CLARKE'S GAZELLE (*AMMODORCAS CLARKII*). NATIVE NAME, DIBATAG.

- WASHINGTON. GEOLOGICAL SURVEY, Seattle, Wash.
Annual report, 1902, vol. 2.
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- WASHINGTON UNIVERSITY, St. Louis, Mo.
Catalogue, 1902-03.
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Calendar, 1902-03.
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Annual report, 18th.
- WESLEYAN UNIVERSITY, Middletown, Conn.
Bulletin, nos. 30-31.
Catalogue, 1902-03.
- WEST AMERICAN SCIENTIST, San Diego, Cal.
Magazine, current numbers.
- WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION, Morgantown, W. Va.
Bulletin, current numbers (gift).
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Bibliography and cartography (bulletin no. 1).
- WESTERN AUSTRALIA. GEOLOGICAL SURVEY, Perth, Western Australia.
Bulletin, no. 7.
Publication, 219.
- WHITFIELD, R. P., New York City.
1 reprint.
- WIEN. K. K. NATURHISTORISCHES HOFMUSEUM, Wien, Austria.
Annalen, vol. 17; vol. 18, pt. 1.
- WIEN. UNIVERSITÄTS-BIBLIOTHEK, Wien, Austria.
Feierliche inauguration des rektors, 1902-03.
Öffentliche vorlesungen, 1902-03.
Übersicht, 1902-03.
1 pamphlet.
- WILDER, H. H., Northampton, Mass.
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- WILLE, N., Christiania, Norway.
Nyt magasin for naturvidenskaberne, current numbers.
3 reprints.
- WILLIAMS COLLEGE, Williamstown, Mass.
Catalogue, 1902-03.
Inauguration of President Henry Hopkins.
- WINCHELL, H. V., Butte, Montana.
1 reprint.
- WINDSOR & KENFIELD PUBLISHING COMPANY, Chicago, Ill.
Brick, current numbers.
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- WISCONSIN AGRICULTURAL EXPERIMENT STATION, Madison, Wis.
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Collections, vol. 16.
Proceedings, 50th meeting.
- WORCESTER PUBLIC LIBRARY, Worcester, Mass.
Annual report, 43^d, 1901-02.
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- WURTTEMBERG. VEREIN FUR VATERLANDISCHE NATURKUNDE,
Stuttgart, Germany.
Jahreshefte, vol. 58, with beilage.
- WYOMING AGRICULTURAL EXPERIMENT STATION, Laramie, Wyo.
Annual report, 1902-03.
Bulletin, current numbers.
- WYOMING HISTORICAL GENEALOGICAL SOCIETY, Wilkesbarre, Pa.
Proceedings and collections, v. 7.
- YALE UNIVERSITY, New Haven, Conn.
Catalogue, 1902-03.
Geological department, 3 pamphlets.
Report of the president, etc., 1902-03.
- YATES, L. G., Santa Barbara, Cal.
Some ancient relics of the aborigines of the Hawaiian islands.
1 pamphlet.
- YOUNG MEN'S CHRISTIAN ASSOCIATION, New York City.
Annual report, 47th.
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Vierteljahrsschrift, vol. 47.

ARTICLES OF INCORPORATION.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSEN, *Secretary of State*:

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations, approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, Therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL.]

TO HON. WILLIAM H. HINRICHSEN,
SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purpose of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."
2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archæology, Science, and History.
3. The management of the aforesaid Museum shall be vested in a board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.
4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black, and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaas, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, Geo. M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS, }
COOK COUNTY. } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

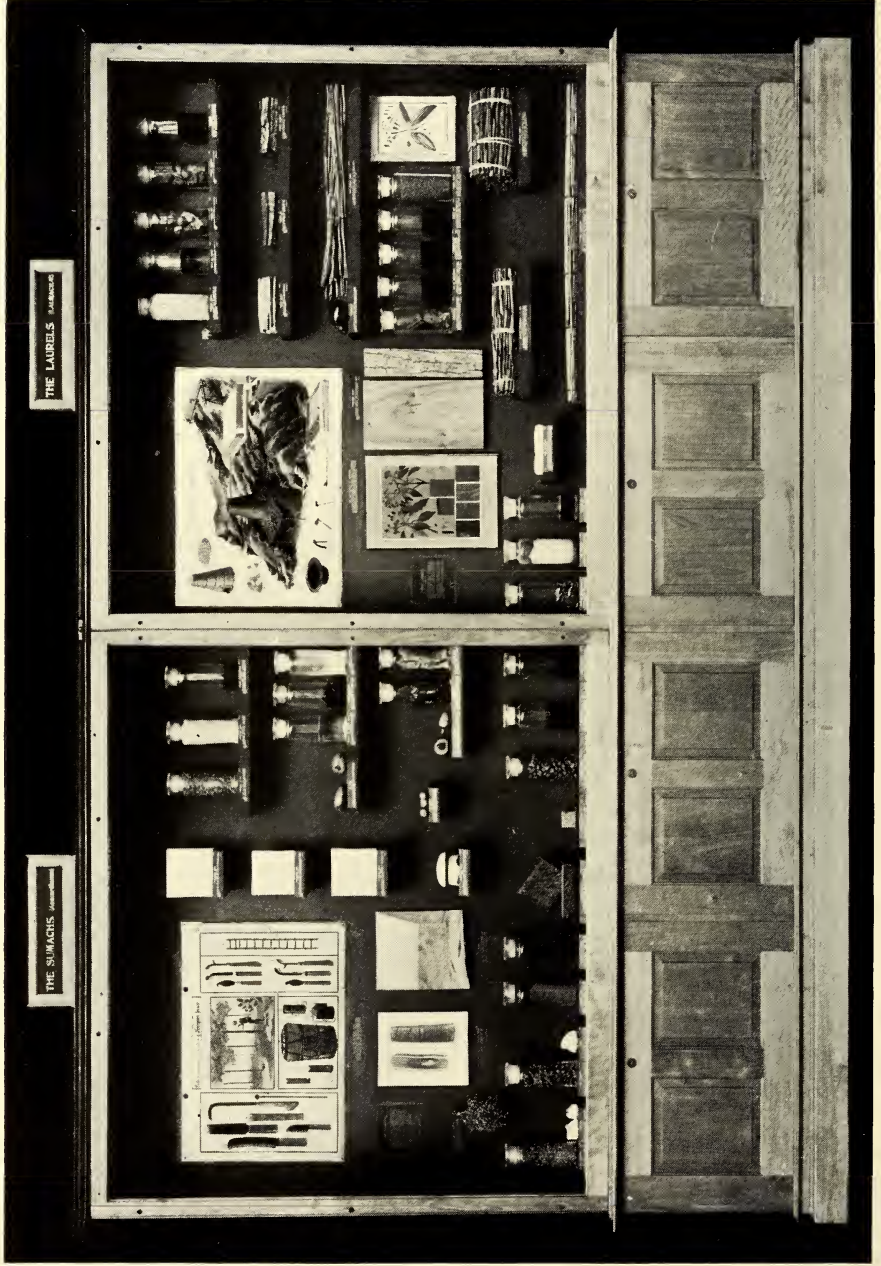
G. R. MITCHELL,

[SEAL.]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held on the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.



CASE ILLUSTRATING THE METHOD OF INSTALLING ECONOMIC MATERIAL. DEPARTMENT OF BOTANY.

PLATE XLV.

The left half of the case illustrates the Anacardiaceæ, and shows Japanese lacquer, wax, the cajon with its nuts, wine, and gum, pistachio nuts, mangoes, etc.

The right half of the case illustrates the Lauracæ, and shows camphor, cinnamon, cassia bark, sassafras, and various oils and medicinal barks.



AMENDED BY-LAWS.

(JANUARY 29, 1900.)

ARTICLE I.

MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons, and Honorary Members.

SEC. 2. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of annual membership.

This said annual membership shall entitle the member to:

First.—Free admittance for himself and family to the Museum on any day.

Second.—Ten tickets every year admitting the bearer to the Museum on pay days.

Third.—A copy of every publication of the Museum sold at the entrance door, and to the Annual Reports.

Fourth.—Invitations to all receptions, lectures, or other entertainments which may be given at the Museum.

SEC. 3. The Corporate Members shall consist of the persons named in the articles of association, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of the association shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members, shall, within ninety days of their respective election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. The annual dues of Corporate Members shall be five dollars (\$5.00) after the first year of membership, and no one shall exercise the rights of a Corporate Member until his dues are paid; and a delinquency of six months in the payment of annual dues shall be ground for forfeiture of corporate membership. Corporate Members becoming Life Members, Patrons, or Honorary Members shall be exempt from dues.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars at any one time shall, upon the unanimous vote of the Trustees, become a Life Member. Life Members shall be exempt from all dues.

SEC. 5. Patrons shall be chosen by the Board of Trustees, upon recom-

mendation of the Executive Committee, from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SEC. 6. Honorary Members shall be chosen from among persons who have rendered eminent service to science, art, or mechanics. They shall be chosen by a vote of the Trustees, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues. In commemoration of the 14th day of October, Honorary Members shall not be more than fourteen in number at any one time.

SEC. 7. All members of whatever class shall be eligible to appointment upon committees other than the Executive Committee.

ARTICLE II.

OFFICERS.

SECTION 1. The respective members of the Board of Trustees now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board of Trustees at any regular meeting,

SEC. 2. The other officers shall be President, two Vice-Presidents, Secretary and Treasurer, and an Executive Committee of four persons, who shall be chosen by ballot by the Board of Trustees from their own number as early as practicable after the annual meeting in each year. The President shall be *ex-officio* a member of the Executive Committee and Chairman thereof, in addition to the other four members. The Secretary and Treasurer may, or may not, be the same person, and the Secretary may, or may not, be a Corporate Member.

Any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The President shall appoint from among the Trustees a Committee on Finance, a Committee on Property, an Auditing Committee, and a Committee on Buildings and Grounds, who shall serve during the pleasure of the Board.

SEC. 4. The officers shall perform such duties as ordinarily appertain to their respective offices, and such other duties as the Board of Trustees may from time to time devolve upon them. The Treasurer shall give bond in such amount and with such surety as shall be approved by the Executive Committee, and shall disburse the funds of the Museum only in accordance with the directions of the Executive Committee, upon the signature and counter-signature of such officers as the Executive Committee shall empower thereto.

SEC. 5. The Executive Committee shall have full control of the affairs of the Museum, under the general supervision of the Board of Trustees.

ARTICLE III.

MEETINGS.

SECTION 1. In commemoration of the discovery of America by Christopher Columbus, the annual meeting of the Corporate Members shall be held on the 14th day of October in each year, except when that day falls on a Sunday, and then upon the Monday following. At such meetings the Corporate

Members shall transact such business as may properly come before the meeting. Special meetings of the Corporate Members shall be called at any time by the Secretary upon written request of twenty Corporate Members. In such case, thirty days' notice by mail shall be given to Corporate Members of the time, place, and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the 14th day of October, except when that day falls on a Sunday, and then upon the Monday following, and upon the last Monday of January, April, and July of each year. Special meetings may be called by the President at any time upon reasonable notice by mail, and shall be called upon the written request of three Trustees. Five Trustees shall constitute a quorum, but meetings may be adjourned by any less number from day to day or to a day fixed.

ARTICLE IV.

AMENDMENTS.

SECTION 1. These By-Laws may be amended at any regular meeting of the Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at the last regular meeting preceding, or shall be recommended by the Executive Committee.

HONORARY MEMBERS.

EDWARD E. AYER
HARLOW N. HIGINBOTHAM

CHARLES B. CORY
STANLEY McCORMICK

DECEASED.

MARY D. STURGES.

PATRONS.

ALLISON V. ARMOUR
WILLIAM I. BUCHANAN

FREDERICK W. PUTNAM
FREDERICK J. V. SKIFF
WILLARD A. SMITH

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HEAD, FRANKLIN H.	

DECEASED.

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TREE, LAMBERT
- WELLING, JOHN C.
WELLS, M. D.
WILLARD, ALONZO J.
WOLFF, LUDWIG

PLATE XLVI.

1. Zea mays, pith and stalk, mounted on paper.
 2. Zea mays, pith and stalk, mounted on paper.
 3. Zea mays, pith and stalk, mounted on paper.
 4. Zea mays, pith and stalk, mounted on paper.
 5. Zea mays, pith and stalk, mounted on paper.
 6. Zea mays, pith and stalk, mounted on paper.
 7. Zea mays, pith and stalk, mounted on paper.
 8. Zea mays, pith and stalk, mounted on paper.
 9. Zea mays, pith and stalk, mounted on paper.
 10. Zea mays, pith and stalk, mounted on paper.

11. Zea mays, pith and stalk, mounted on paper.
 12. Zea mays, pith and stalk, mounted on paper.
 13. Zea mays, pith and stalk, mounted on paper.
 14. Zea mays, pith and stalk, mounted on paper.
 15. Zea mays, pith and stalk, mounted on paper.
 16. Zea mays, pith and stalk, mounted on paper.
 17. Zea mays, pith and stalk, mounted on paper.
 18. Zea mays, pith and stalk, mounted on paper.
 19. Zea mays, pith and stalk, mounted on paper.
 20. Zea mays, pith and stalk, mounted on paper.

PLATE XLVI.

These frames are two-faced, glazed, and labeled on both sides, the spaces being cut from a dead black mat. They are intended for mounting in a swinging rack set in the embrasure of a window, thus allowing the paper specimens to be examined opaque or transparent at will. The frame illustrated contains various examples of paper made from the pith and stalk of the corn plant, *Zea mays*.

21. Zea mays, pith and stalk, mounted on paper.
 22. Zea mays, pith and stalk, mounted on paper.
 23. Zea mays, pith and stalk, mounted on paper.
 24. Zea mays, pith and stalk, mounted on paper.
 25. Zea mays, pith and stalk, mounted on paper.
 26. Zea mays, pith and stalk, mounted on paper.
 27. Zea mays, pith and stalk, mounted on paper.
 28. Zea mays, pith and stalk, mounted on paper.
 29. Zea mays, pith and stalk, mounted on paper.
 30. Zea mays, pith and stalk, mounted on paper.

31. Zea mays, pith and stalk, mounted on paper.
 32. Zea mays, pith and stalk, mounted on paper.
 33. Zea mays, pith and stalk, mounted on paper.
 34. Zea mays, pith and stalk, mounted on paper.
 35. Zea mays, pith and stalk, mounted on paper.
 36. Zea mays, pith and stalk, mounted on paper.
 37. Zea mays, pith and stalk, mounted on paper.
 38. Zea mays, pith and stalk, mounted on paper.
 39. Zea mays, pith and stalk, mounted on paper.
 40. Zea mays, pith and stalk, mounted on paper.

ANNUAL MEMBERS.

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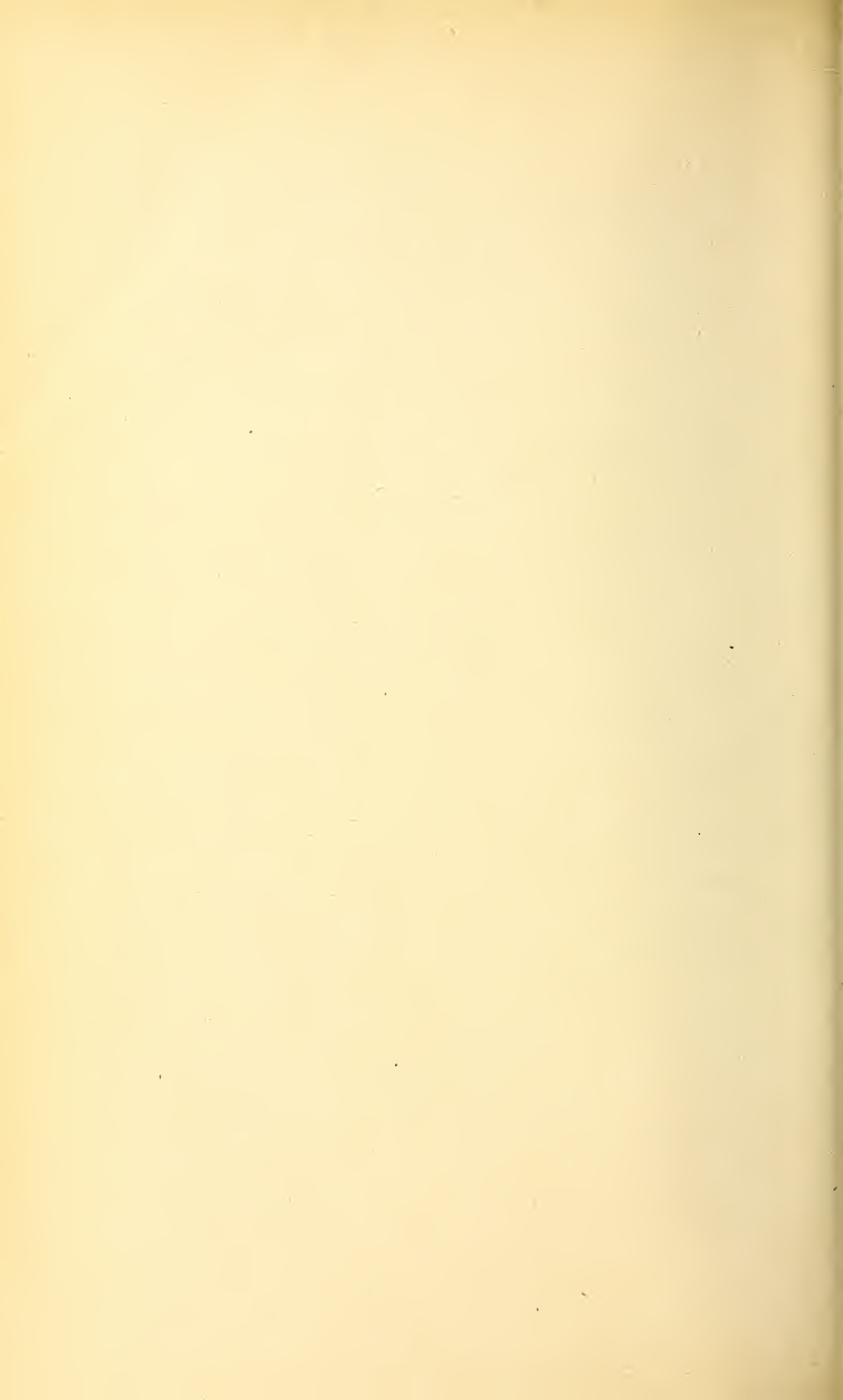
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SHORTALL, JOHN G.	
SKINNER, THE MISSES	

 DECEASED.

BONNEY, CHARLES C.







EDWARD E. AYER.

FIELD COLUMBIAN MUSEUM

PUBLICATION 98.

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VOL. II, No. 4.

ANNUAL REPORT OF THE
DIRECTOR

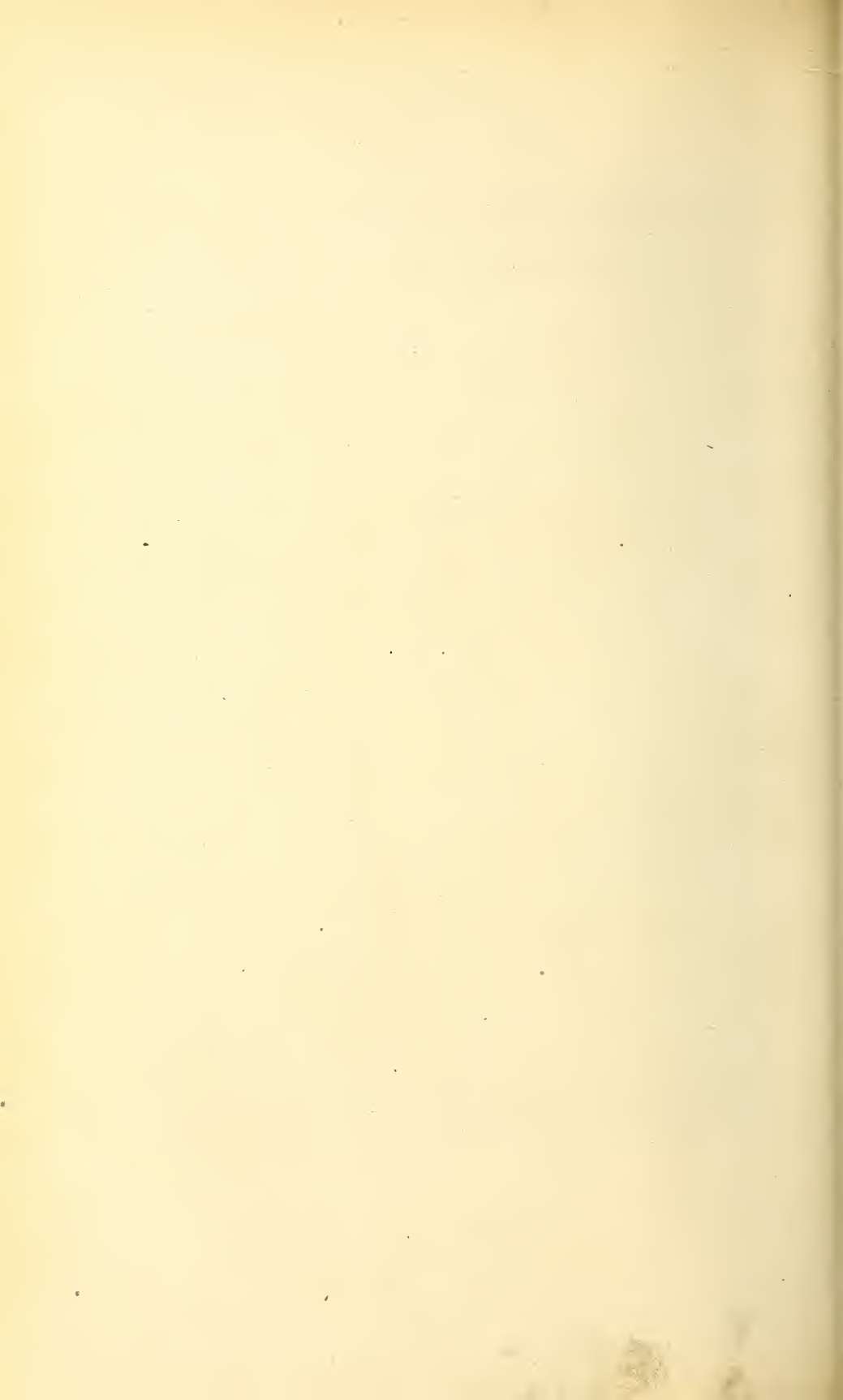
TO THE
BOARD OF TRUSTEES

FOR THE YEAR 1903-1904.



CHICAGO, U. S. A.

October, 1904.



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THE BOARD OF TRUSTEES.

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BYRON L. SMITH, *Treasurer.*

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D. C. DAVIES.

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TAXIDERMIST-IN-CHIEF.

CARL E. AKELEY.

ANNUAL REPORT OF THE DIRECTOR.

1903-1904

To the Trustees of the Field Columbian Museum :

I have the honor to present the report of the operations of the Museum during the year ending September 30, 1904.

MAINTENANCE.—The cost of maintenance for the year amounted to \$110,000. The total amount expended for all purposes was \$140,000, being \$5,000 less than the previous year. The difference between the cost of maintenance and the actual amount expended is accounted for by special appropriations for the purchase of collections, the outfitting of expeditions, and the cost of publishing the different numbers in the Museum series of publications. The latter item shows a considerable increase over any previous year. The cost of heating and lighting the building was also higher, owing mainly to an advance in the price of the coal used, and the unusual severity of the winter months. The building itself can be considered as being in good repair, yet the overhanging cornices, which are rapidly decaying, occasion a certain amount of anxiety, and will have to be removed in order to prevent accidents. The roof of the building is in fairly satisfactory condition, scarcely any leakages having occurred for some time. Some important and necessary additions have been made to the steam plant, bringing the plant up to a high state of efficiency.

LECTURE COURSES.—The attendance at the course during the months of October and November was very satisfactory, and a most interesting series of lectures was given.

Owing to certain strictures of the Building Commissioner, subsequent to the local disaster in December, it was thought advisable to discontinue the use of the Museum Lecture Hall, hence the course usually given in the spring was omitted. I am glad, however, to report that the courses have now been resumed through an arrangement with the authorities of the Art Institute, whereby it is possible to obtain the use of Fullerton Hall for the afternoons on which the lectures have usually been given.

The following is the Twentieth Lecture Course, delivered during the months of October and November, 1903:

- Oct. 3.—“A Visit to the Island of Sumatra.”
Prof. E. E. Barnard, University of Chicago.
- Oct. 10.—“A Tour of the Plant World—Japan.” (Repeated by request.)
Dr. C. F. Millspaugh, Curator, Department of Botany.
- Oct. 17.—“Travels on Vancouver Island.”
Mr. Harlan I. Smith, American Museum of Natural History, New York, N. Y.
- Oct. 24.—“Bird Migration.”
Mr. W. E. Praeger, University of Chicago.
- Oct. 31.—“On the Isthmus of Tehuantepec.”
Dr. Seth E. Meek, Assistant Curator, Department of Zoölogy.
- Nov. 7.—“In Eastern Mexico.”
Dr. Seth E. Meek, Assistant Curator, Department of Zoölogy.
- Nov. 14.—“Where Sea and River Meet.”
Dr. Chas. B. Davenport, University of Chicago.
- Nov. 21.—“How Ores Grow.”
Mr. Henry W. Nichols, Assistant Curator, Department of Geology.
- Nov. 28.—“Cats and Dogs, Their Origin and Distribution.”
Dr. S. W. Williston, Associate Curator, Division of Paleontology.

PUBLICATIONS.—During the year 14 publications of the established series were issued, and the numbers exceed in importance any hitherto published by the institution. Each of the departments has been well represented in this work, as will be noted by a perusal of the list given below.

The following is a list of the publications issued, and a table showing their distribution during the year:

PUBLICATIONS 1903-1904.

- Pub. 82.—Geological Series, Vol. 2, No. 4. "Structure and Relationships of Opisthocœlian Dinosaurs." Part I. "Apatosaurus Marsh." By Elmer S. Riggs. 32 pp., 14 illustrations (10 half-tones and 4 zinc etchings), edition 1,500.
- Pub. 83.—Anthropological Series, Vol. 3, No. 4. "The Oraibi Summer Snake Ceremony." By H. R. Voth. 91 pp., 71 illustrations (half-tones), edition 1,500.
- Pub. 84.—Anthropological Series, Vol. 6, No. 1. "The Oraibi Oaqöl Ceremony." By H. R. Voth. 46 pp., 28 illustrations (26 half-tones, 2 colored plates), edition 1,500.
- Pub. 85.—Anthropological Series, Vol. 2, No. 6. "Traditions of the Crows." By S. C. Simms. 44 pp., no illustrations, edition 1,500.
- Pub. 86.—Report Series, Vol. 2, No. 3. "Annual Report of the Director to the Board of Trustees, for the Year 1902-1903." 83 pp., 15 illustrations (half-tones), edition 2,500.
- Pub. 87.—Zoölogical Series, Vol. 3, No. 14. "Descriptions of Twenty-seven Apparently New Species and Subspecies of Mammals." All but six collected by Edmund Heller. By D. G. Elliot. 22 pp., 1 illustration, edition 1,500.
- Pub. 88.—Anthropological Series, Vol. 7, No. 1. "Traditions of the Osage." By George A. Dorsey. 60 pp., no illustrations, edition 1,500.
- Pub. 89.—Geological Series, Vol. 2, No. 5. "Observations on the Geology and Geography of Western Mexico; Including an Account of the Cerro Mercado." By Oliver Cummings Farrington. 31 pp., 21 illustrations (16 photogravures, 5 zinc etchings), edition 1,500.
- Pub. 90.—Zoölogical Series, Vol. 3, No. 15. "Descriptions of Apparently New Species and Subspecies of Mammals, and a New Generic Name Proposed." By D. G. Elliot. 7 pp., no illustrations, edition 1,500.
- Pub. 91.—Zoölogical Series, Vol. 3, No. 16. "Catalogue of Mammals Collected by E. Heller in Southern California." By D. G. Elliot. 52 pp., 12 illustrations (11 half-tones, 1 zinc etching), edition 1,500.

- Pub. 92.—Botanical Series, Vol. 3, No. 2. "Plantæ Yucatanæ. (Regionis Antillanæ.) Plants of the Insular, Coastal, and Plain Regions of the Peninsula of Yucatan, Mexico." By Charles Frederick Millspaugh. 70 pp., 90 illustrations (zinc etchings), edition 1,500.
- Pub. 93.—Zoölogical Series, Vol. 5. "The Fresh-Water Fishes of Mexico North of the Isthmus of Tehuantepec." By Seth Eugene Meek. 316 pp., 89 illustrations (1 zinc etching; 88 half-tones), edition 1,500.
- Pub. 94.—Geological Series, Vol. 2, No. 6. "Structure and Relationships of Opisthocœlian Dinosaurs." Part II. "The Brachiosauridæ." By Elmer S. Riggs. 19 pp., 6 illustrations (half-tones).
- Pub. 95.—Zoölogical Series, Vol. 4, Part I. "The Land and Sea Mammals of Middle America and the West Indies." By D. G. Elliot. 490 pp., 181 illustrations (half-tones), edition 2,000.
- Pub. 95.—Zoölogical Series, Vol. 4, Part II. "The Land and Sea Mammals of Middle America and the West Indies." By D. G. Elliot. 424 pp., 196 illustrations (half-tones), edition 2,000.

The Museum list of exchanges comprises 1,169 institutions and individuals. Of this number, 493 are with foreign countries, and 676 in the United States.

The following list shows the number of exchanges with each of the foreign countries:

Australia,	21	Germany,	103
Canada,	30	Great Britain,	76
Central America,	7	Greece,	2
Cuba and the West Indies,	5	Netherlands,	10
Mexico,	16	Italy,	27
Yucatan,	2	Malta,	1
Argentine,	11	Norway,	7
Brazil,	7	Portugal,	5
British Guiana,	1	Roumania,	1
Chili,	1	Russia,	14
Peru,	2	Spain,	5
U. S. Columbia,	2	Sweden,	10
Uruguay,	1	Switzerland,	10



PLATE XLVIII.

A museum group showing wild ducks in characteristic attitudes, and a wildcat stalking them from behind a bunch of beach grass.

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Austria Hungary,	25	India,	11
Belgium,	13	Japan,	2
Denmark,	4	Egypt,	1
France,	42	Liberia,	1
Tasmania,	2	Oceania,	8
South Africa,	7		

The following table shows the number of exchanges receiving the different publications:

FOREIGN.

General, everything issued by the Museum,	198
Anthropological,	85
Botanical,	44
Geological,	69
Ornithological,	8
Report,	3
Anthropological and Geological,	5
Geological and Zoölogical,	21
Zoölogical,	35
Miscellaneous,	25
	<hr/>
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The publications are distributed to the different states as follows:

Alabama,	2	Montana,	3
Arizona,	1	Nebraska,	7
Arkansas,	1	Nevada,	1
California,	32	New Hampshire,	6
Colorado,	13	New Jersey,	20
Connecticut,	23	New York,	107
Delaware,	2	North Carolina,	6
District of Columbia,	26	New Mexico,	2
Florida,	1	Ohio,	28
Georgia,	1	Oregon,	1
Illinois,	64	Pennsylvania,	46
Indiana,	15	Rhode Island,	7
Iowa,	13	South Carolina,	1
Kansas,	9	South Dakota,	2
Kentucky,	3	Tennessee,	2
Louisiana,	4	Texas,	2
Maine,	7	Vermont,	3
Maryland,	16	Virginia,	3
Massachusetts,	72	Washington,	3
Michigan,	12	West Virginia,	2
Minnesota,	11	Wisconsin,	16
Mississippi,	2	Wyoming,	2
Missouri,	16		

The following table shows the number of exchanges receiving the different publications:

DOMESTIC.	
General, everything issued by the Museum,	215
Anthropological,	97
Botanical,	85
Geological,	108
Ornithological,	14
Report,	10
Anthropological and Geological,	7
Geological and Zoölogical,	19
Zoölogical,	25
Miscellaneous,	8
Botanical, Geological, and Zoölogical,	17
Historical,	30
Botanical and Zoölogical,	9
Industrial Arts,	14
Transportation,	18
	676

LOUISIANA PURCHASE EXPOSITION.—The opportunity to secure much valuable museum material from the Exposition has not been lost sight of, and early in the year arrangements were perfected by which the grounds and exhibit palaces would be thoroughly canvassed. At this time of writing, however, it can only be said that these efforts have been very encouraging, and assurance is here given that the energies of the Director and the Curators in this direction will be fully applied.

THE LIBRARY.—The Library at present contains 15,239 books and 18,816 pamphlets, distributed as follows:

	Books.	Pamphlets.
General Library,	11,646	15,644
Department of Anthropology,	410	103
Department of Botany,	633	275
Department of Geology,	1,835	2,894
Department of Ornithology,	386	.....
Department of Zoölogy,	329	.....

The additions during the year were 987 books and 1,020 pamphlets and bulletins, making a total of 2,007 titles. Of these, 73 books and 76 pamphlets were added by purchase, and 914 books and 944 pamphlets by exchange for equivalent literature. During the year the Library has been enriched by the acquisition of a number of valu-

able works; the Museum being under special obligations for noteworthy contributions to Christiana University, Stockholm; the Natural History Museum, Hamburg; Cambridge University Press, England; Royal University of Upsala; Missouri Botanical Garden, St. Louis, Missouri; University of Chicago; and to Messrs. Eduard Seler, Berlin, and B. B. Cushman, Chicago. The annual inventory of the departmental libraries showed that they were in a satisfactory condition. In the departments of Botany and Zoölogy the books are much exposed to the dust, but with the present accommodations this seems unavoidable. No important changes have been made in the equipment of the general library. The work of revising and typewriting the author catalogue has been steadily pursued during the year. This work will be completed and the catalogue brought up to date in about a month. Three thousand and fifty-nine cards have been added and 10,128 cards revised and rewritten. Three hundred and sixty-four volumes were received from the bindery. Twelve installments of the John Crerar Library catalogue have been received and filed.

ACCESSIONS.—The accessions in the Department of Anthropology, as in recent years, have been very largely the result of expeditions in the field by various members of the staff of the department. Assistant Curator Owen secured noteworthy collections, one of which, from the White Mountain Apache, consisting chiefly of ceremonial objects and paraphernalia, supplements the collection already formed by Mr. Owen in this tribe, and makes the combined collection one of great importance and scientific value. Also through Assistant Curator Owen's expedition was derived a fairly comprehensive and exceedingly interesting collection from certain of the so-called Mission Indians of southern California. Previous to this year the department possessed but scant material from this interesting region, so this collection not only fills an important gap, but makes the Californian collections representative in a comprehensive way, of the entire state. From Assistant Curator Simms was obtained an interesting collection from the Assiniboins, Cree, and Ojibwa of Minnesota and Assinaboia. This region up to this year had remained practically unrepresented in the collections, and the acquisition, therefore, marks an extenuation of territory covered by collections from the Plains tribes. The Northwest Coast collections have received a most valuable addition through the expedition undertaken for the Museum by Dr. C. F. Newcombe. Dr. Newcombe's work of collecting this year was largely confined to the

tribes of Vancouver Island and the Thompson and Frazer rivers. Especially noteworthy in the material sent in by Dr. Newcombe are several totem and house poles, ceremonial feast dishes, a very old Haida grave-house, and an interesting and well-identified series of ceremonial objects. In a similar manner, the Californian collections have received notable additions from the continued researches of Dr. J. W. Hudson, who has continued the work of investigating and collecting in two regions not hitherto adequately represented in this department: the first region being the lower Klamath, the second that region of California adjacent to Death and Panamint valleys. As a result of the work among the Cheyenne and Kiowa under the direction of Mr. James Mooney and the co-operation of the Bureau of Ethnology, additional material has been received, especially from the Cheyenne. Of chief interest in this material is a full-sized Cheyenne tipi, carefully made of skins after the old manner, decorated in colors, and completely equipped with interior furnishings appropriate to a Cheyenne tipi of a family of means and influence. As a result of the Curator's continued investigation, among the tribes of the Caddoan stock and the Arapaho, a considerable amount of material has been acquired which makes the collections from those tribes more complete and interesting. From nearly all of the above-mentioned expeditions osteological material has been also acquired, especially from the expedition of Dr. Newcombe on the Northwest Coast. Among the notable purchases made during the year should be mentioned, first those made by Mr. Ayer, of specimens from Egypt, Italy, and Benin, Africa. Mr. Clarence B. Moore has again manifested his friendly interest in the department, as shown by his presentation of fifteen interesting specimens from Florida. The departmental collection of ethnic photographs was enlarged by the acquisition of about 400 prints by purchase from the Bureau of Ethnology. It may be noted in this connection that Mr. Carpenter, the official photographer of the Museum, has devoted several months of the year to the work of photographing all the Indians and other primitive peoples brought together by the Department of Anthropology and the Philippine Commission of the World's Fair. Mr. Carpenter has not yet concluded his work, but it is believed that he will have made, before the Exposition closes, over 2,000 negatives. The value of such a collection of physical types cannot be estimated. Ninety-six species of birds, of which 11 were new to the Museum collections, were obtained by Mr. Breninger, collector in Nicaragua. The collecting in the Chicago region also re-

sulted in the accumulation of considerable data relative to the local distribution of birds and a number of nests, eggs, skins, and alcohol specimens were obtained. An important addition to the specimens in the department was a collection of 183 bird skins, obtained as a gift from Mr. D. K. Williamson, of Bluffton, Indiana. In the Department of Geology several valuable accessions have been received by gift. Among these may be mentioned a glaciated copper boulder weighing $101\frac{1}{4}$ pounds, received from Mr. Joseph Austrian; a collection of gem peridots from Rev. Paul S. Mayerhof; a large relief map of France from the Central School Supply Company; a classified collection of soils and subsoils numbering forty-one specimens from the United States Department of Agriculture; a series of rare minerals and crystals of California from M. M. and F. M. Sickler; a transparency of Mt. Pelee from Mr. Morris K. Jesup; a collection of local fossils and specimens illustrating rock structures from Mr. John Hemshell; topaz crystals from Mr. W. J. Chalmers; and specimens of metallic silicon from the Carborundum Company. Several exchanges have been made which have afforded important additions to the collections. This is especially true of the meteorites, to which twenty specimens of falls not before represented have thus been added. For courtesies rendered in this connection, acknowledgment is due the following institutions and individuals: Department of Mines, Sydney, New South Wales; Geological Survey of India; Dr. A. Brezina; Julius Bohm; B. Sturtz; and Prof. H. A. Ward. By exchange with the Australian Museum, Sydney, New South Wales, a rare series of Australian minerals was obtained, including specimens of emerald, topaz, zircon, and garnet of gem quality. The most important purchases by the Department were those of the entire mass of the Rodeo, Durango, Mexico meteorite, and a fossil skeleton of the short-necked swimming reptile, Platecarpus, about twelve feet in length. This skeleton is nearly complete. Other purchases included specimens of the Finnmarken, Lance, and Ness Co. meteorites, and a slab of dinosaur tracks. The Department of Botany has received during the past year 83 accessions, of which 65 (representing 33,060 specimens) have been installed in the herbarium, and 18 (representing 111 specimens) in the economic section. Among the most notable series received were those of the herbarium of Dr. John K. Small (21,528 specimens), representing in the main his field work on "The Flora of the Southern States"; and substantially the South American species from the herbarium of Prof. Edward L. Greene (3,315 specimens), kindly donated by himself.

The most important collections received are the following:

Collector.	Received this Year.	Total in Herb.
Bang, A. Miguel—Bolivia	934	1,933
Bebb, Robert—Illinois, Texas, Wisconsin,	234	663
Britton, Britton & Schafer—Cuba,	85	90
Brown—California,	620	620
Brown, Robert—Australia.	417	417
Burgess, A. B.—Florida,	242	242
Canby, W. M.—Crategi,	25	45
Curtiss, A. H.—Bahamas,	208	208
Cusick, W. M.—Oregon,	204	1,620
Eaton, A. A.—Florida,	64	64
Eggleston, W. W.—Vermont,	640	682
Garber, A. P.—Florida,	484	489
Garber, A. P.—Pennsylvania,	211	406
Grout, A. J.—Vermont,	401	448
Greene, Edward L.—California,	21	537
Harris, Fawcett & Campbell—Jamaica,	1,517	1,672
Heller, A. A.—California,	502	967
Heller, A. A.—Hawaii,	860	967
Heller, A. A.—Pennsylvania,	707	709
Heller, A. A.—Virginia,	483	483
Hill, E. J.—Crategi,	46	57
Howe, Clifton D.—Newfoundland,	175	175
Howe, Clifton D.—Nova Scotia,	65	65
Kearney, T. H., Jr.—Kentucky,	246	409
Lansing, O. E., Jr.—Florida Keys,	590	590
Lemmon, J. G.—California,	169	744
McDonald, F.—Illinois,	252	1,098
Meyers, F. S.—Jerusalem,	682	682
Millspaugh, C. F.—Bahamas	417	417
Morong, Thos.—Paraguay,	193	561
Morris, E. L.—Dist. Columbia,	269	270
Morris, E. L.—Massachusetts,	164	168
Nash, Geo. V.—Hayti,	223	223
Nelson, Aven.—Wyoming,	447	460
Newcombe, C. F.—British Columbia,	122	238
Nichols, G. E.—Jamaica,	137	137
Orcutt, C. R.—Lower California,	244	539
Palmer, Dr. Edward—Mexico,	32	2,025
Parish, S. B. & W. F.—California,	243	1,253
Patterson, H. N.—Illinois,	466	2,256
Patterson, H. N.—Colorado,	479	1,123
Piper, C. V.—Washington,	428	486
Porter, T. C.—Pennsylvania,	285	670
Pringle, C. G.—Arizona,	221	1,137
Pringle, C. G.—California,	187	311
Pringle, C. G.—Vermont,	126	444

INGREDIENTS OF CURRY POWDER.

Curry powders, used so extensively in the East Indies as a condiment, for flavoring meats and vegetables, are variously compounded, either according to geographic locality, or the taste of the cook. There are some forty set recipes for this famous dish all of which contain at least the following: fenugreek, saffron, ginger, pepper, turmeric, coconut and nutmeg. Others are compounded with many additional ingredients. The famous Sinhalese curry is represented by those surrounding this label.

1904.

CEYLON.

CURRY POWDER.

METHOD OF INSTALLATION. DEPARTMENT OF BOTANY.

Collector.	Received this Year.	Total in Herb.
Reverchon, J.—Texas,	188	1,004
Reynolds, Mary—Florida,	176	201
Rusby, H. H.—Arizona,	203	304
Rusby, H. H.—Bolivia,	532	604
Rusby, H. H.—New Mexico,	116	315
Rusby, H. H.—Venezuela,	305	495
Ruth, A.—Tennessee,	103	117
Sandberg, J. H.—Idaho,	135	159
Sandberg, J. H.—Minnesota,	434	566
Sargent, C. S.—Crategi,	41	41
Seler, Dr. & Mrs.—Yucatan,	183	183
Sheldon, E. P.—Minnesota,	291	326
Small, John K.—Georgia,	1,897	1,912
Small, John K.—North Carolina,	155	155
Small, John K.—New York,	132	133
Small, John K.—Pennsylvania,	4,013	4,014
Small & Heller—North Carolina,	1,187	1,187
Small & Heller—Pennsylvania,	224	225
Small & Heller—Virginia,	74	74
Sonne, C. F.—California,	191	429
Suksdorf, W. N.—Washington,	296	1,430
Taylor, K. A.—Maryland,	84	84
Taylor, K. A.—South Carolina,	125	125
Umbach, L. M.—Illinois,	245	1,137
Umbach, L. M.—Indiana,	291	936
Wilson, Percy.—Honduras,	103	103

The total additions to the herbarium for the year, arranged geographically, are as follows:

NORTH AMERICA:	Added this Year.	Total in Herbarium.
Alabama,	28	347
Alaska,	10	308
Arizona,	121	3,173
Arkansas,	17	180
British Columbia,	142	223
California,	536	10,391
Canada,	29	1,841
Colorado,	628	5,334
Connecticut,	22	233
Dakota,	47	212
Delaware,	75	822
District of Columbia,	28	1,710
Florida,	1,203	8,450
Georgia,	1,935	2,914
Grand Manan Island,	26	26
Idaho,	165	850
Illinois,	712	14,542
Indiana,	81	3,377

NORTH AMERICA—continued.	Added this Year.	Total in Herbarium.
Indian Territory,	10	171
Iowa,	31	1,228
Kansas,	68	135
Kentucky,	260	639
Labrador,	4	154
Louisiana,	18	790
Maine,	124	759
Maryland,	193	592
Michigan,	422	2,793
Minnesota,	232	1,742
Mississippi,	20	1,394
Missouri,	130	786
Montana,	204	1,774
Nebraska,	17	59
Nevada,	3	116
New Brunswick,	9	614
Newfoundland,	175	212
New Hampshire,	202	809
New Jersey,	712	1,242
New Mexico,	52	1,106
New York,	990	5,412
North Carolina,	1,617	2,602
Nova Scotia,	65	91
Ohio,	88	1,062
Oregon,	258	3,422
Pennsylvania,	5,206	7,979
Queen Charlotte Island,	6	88
Rhode Island,	15	485
Santa Cruz Island,	2	67
South Carolina,	171	516
Tennessee,	140	743
Texas,	241	2,408
Utah,	168	419
Vermont,	140	1,942
Virginia,	2,311	3,430
Washington,	33	3,392
West Virginia,	32	1,195
Wisconsin,	96	669
Wyoming,	58	695
Yellowstone Park,	21	281
WEST INDIES:		
Antigua,	9	10
Bahamas,	647	734
Barbados,	1	75
Cuba,	164	1,879
Dominica,	16	47
Florida Keys,	765	765
Grenada,	10	100

	Added this Year.	Total in Herbarium.
WEST INDIES—continued.		
Haiti,	239	255
Jamaica,	1,671	2,592
Martinique,	3	18
Porto Rico,	85	3,645
Santo Domingo,	3	167
St. Christopher,	1	9
St. Jan,	1	5
St. Lucia,	2	3
St. Vincent,	5	108
Tobago,	4	38
Trinidad,	14	52
MEXICO AND CENTRAL AMERICA:		
Carmen Island,	21	22
Guatemala,	47	77
Honduras,	103	106
Lower California,	221	1,045
Mexico,	1,620	10,674
Nicaragua,	82	82
Socorro Island,	1	1
Yucatan,	184	3,847
SOUTH AMERICA:		
Bolivia,	999	2,537
Chile,	84	162
Falkland Island,	1	2
Galapagos Island,	2	2
Magellan,	4	38
Paraguay,	68	561
Venezuela,	305	748
EUROPE:		
Hungary,	9	4,157
France,	4	1,427
Germany,	81	4,059
Great Britain,	104	1,416
Italy,	9	902
Norway,	2	207
Spain,	2	41
Sweden,	4	457
Switzerland,	1	991
ASIA:		
Palestine,	682	682
AFRICA:		
Abyssinia,	1	192
Natal,	69	534
Nyassaland,	1	30
Zululand,	41	89
OCEANIA:		
Australia,	417	1,086
Hawaii,	10	961

In the Department of Zoölogy 1,778 specimens of Mammals have been added to the collection during the past year—121 by purchase, 57 by donations, and 1,600 collected in the field. The most important specimens presented were six Caribou from Newfoundland, the gift of Mr. V. Shaw Kennedy, and which eventually will be mounted in one group. Among the notable purchases were a male "Ovis ammon," with very fine horns measuring $19\frac{3}{4}$ inches at base, $53\frac{1}{2}$ inches in length, and 36 inches from tip to tip, thus nearly equalling the largest head recorded; a very fine silver fox, *V. p. argentata*, 5 musk oxen from the Mackenzie River district, the true "Ovibos moschatus," and a male, female, and young adult female of the Saiga Antelope, in the rare snow-white winter pelage. Additions to the collection of fishes have been comparatively few during the past year, comprising but 80 specimens in all, of which 54 were donated and 26 collected in the field. No purchases were made. A specimen of Alligator Garpike, donated by Mr. McCrea, is 8 feet in length, and represents the largest species of our fresh-water fishes. Of Lizards, 157 specimens were collected in California and Mexico and added to the collection, and 54 Snakes, all collected in California and Mexico, save one presented by Dr. Roerhig, from Kentucky. Seven thousand two hundred and twenty-seven entomological specimens have been added to the collection during the past year, 6,776 by purchase, 119 donated, and 332 collected in the field by the Assistant Curator. The most important acquisition was the purchase of the collection of Prof. Arthur J. Snyder, containing 5,564 Butterflies and Moths from America north of Mexico, and 409 Butterflies and Moths foreign to these limits. The genus *Argynnis* is strongly represented, having over 750 specimens, and the genus *Catocala* also exhibits over 450 specimens, thus affording a fairly full representation of these perplexing genera. Local species from different places in Illinois are well represented, and about 95 per cent of the entire collection possesses exact and proper data. Eleven hundred and forty-seven shell specimens were added to the collection, 625 purchased, and 522 collected in the field. The classification of accessions follows:

	Number of Accessions.	Number of Specimens.
Gifts,	154	6,203
Loans,	4	50
Exchanges,	45	4,641
Collected,	52	13,510
Purchase,	57	31,555
Collated,	4	43

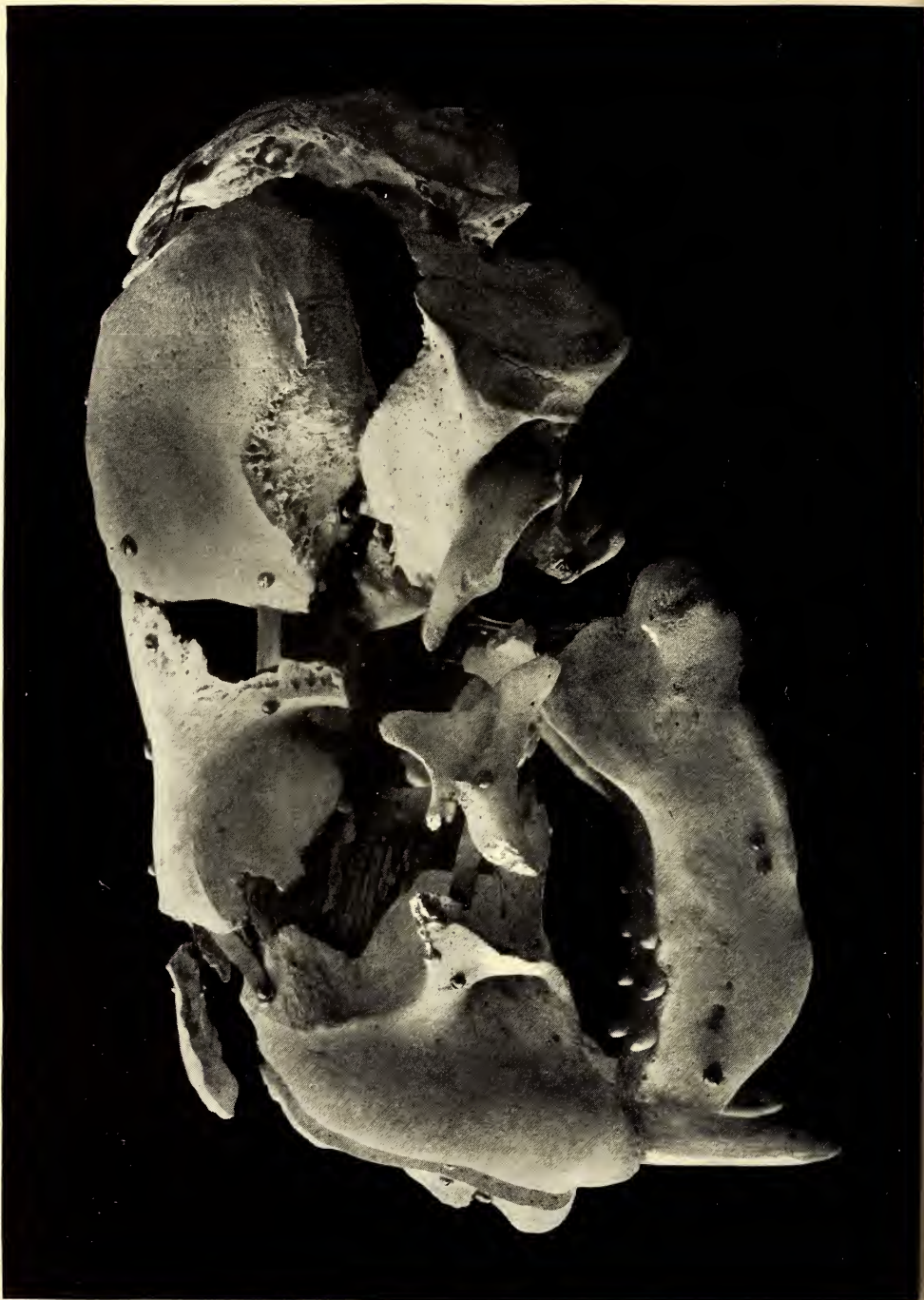
PLATE L.

FRONT VIEW.

Mounted skull; Department of Zoölogy. Adaptation of the Beauchène method, to facilitate the examination separately of the various bones of the skull and the comparison with those of different genera.



ODONTOBÆNUS ROSMARUS. ATLANTIC WALRUS.



UDUNTOBENUS RUSWENUS

PLATE LIX.

SIDE VIEW.

Mounted skull; Department of Zoölogy. Adaptation of the Beauchène method, to facilitate the examination separately of the various bones of the skull and the comparison with those of different genera.

DEPARTMENTAL CATALOGUING, INVENTORYING, AND LABELING.—The work of cataloguing specimens as received in the Department of Geology has proceeded as usual during the year. In addition a complete catalogue of the photographs belonging to the Department has been made, and the prints of these in the Department albums carefully labeled. The number of these, of which a complete and permanent record is now thus available, is 1,548. A partial card catalogue of the clay collection has been made, the cards showing the character of the clay, manner of burning, locality, and analysis where this has been obtainable from literature or has been made in the Department. The work of labeling the paleontological collections has been completed during the year by the preparation of 1,455 black cardboard labels printed in aluminum ink. The text of these labels was prepared with a view to making them, as far as possible, of popular interest. Common names and descriptive terms were therefore used in connection with the scientific ones. In addition, ten large descriptive labels, some of them illustrated by special cuts, have been provided for the cases of invertebrate fossils. These labels give comprehensive descriptions of the animal or plant groups represented and of the life and distribution of the rocks of each period. About 500 labels have been prepared to complete the labeling of the collection of gold and silver ores in Hall 72, and 350 miscellaneous labels for new specimens in various collections. The inventory of the Department of Anthropology has been practically brought up to date, and it remained during the present year to continue the inventory of collections as they were received. Practically all of the collections received during the year were catalogued and recorded except those made by Dr. Hudson, who has not returned from the field. The number of labels prepared during the year has not been as large as in previous years. This is largely due to the fact that the work of new installation has been suspended for the present. All specimens placed on exhibition, even though the exhibition be of a temporary nature, have been provided with identification labels, while printed labels have been made for a number of small collections and for the large Tlingit collection, numbering over 2,000 specimens. The recording of collections received in the Department of Botany has been consistently kept up to date throughout the year, 21,917 entries having been made in the inventory books of the department. These books now comprise 51 volumes, in which 161,861 entries have been made to date. The work in the economic section, carried on by the Curator, has been principally spent upon labeling. A complete catalogue of the birds of North America, Central America,

and the West Indies has been finished, and is now ready for publication. This publication shows what the Department of Ornithology lacks, what it possesses, and of what it has duplicate specimens. The study collection in the Department of Zoölogy has been put in systematic order and correctly labeled. All specimens placed on exhibition have been correctly labeled and all new material inventoried. The year's work in the Museum on catalogues and inventories is shown in detail below:

Departments.	Number of Record Books.	Total No. of Entries to Sept. 30, 1904.	Entries During 1903-1904.	Total No. of Cards Written.
Anthropology,	24	62,841	1,928	66,731
Botany,	51	161,861	21,917	4,550
Geology,	19	37,824	3,904	6,200
Library,	6	39,566	3,782	33,956
Ornithology,	10	16,018	986	3,300
Photography,	4	27,723	11,672	.....
Zoölogy,	20	31,171	1,915	15,610

EXPEDITIONS AND FIELD WORK.—After a cessation of two years, field work for the collection of vertebrate fossils was resumed during the present year. The work was in charge of Assistant Curator Riggs, who spent, with a party, about four months in the Jurassic and Cretaceous outcrops of Montana and South Dakota. Much new and valuable material, amply repaying the cost of the expedition, was obtained. Of this the most important for exhibition purposes was one nearly complete skull and partial skeleton of an individual of the huge horned reptile *Triceratops*. Four less complete skulls and parts of skeletons of the same genus were also obtained. Other material of value includes remains of three individuals of the long-necked swimming reptile *Plesiosaurus*, portions of which will be available for exhibition, and all of which is of scientific value. About 25 specimens of a sea-crab from the Upper Cretaceous were secured, and some *Mosasaur* and *Claosaur* remains. During the month of September about 12,000 specimens of invertebrate fossils were collected by Mr. Slocum in the Silurian and Devonian localities of western New York. The principal localities visited were East Bethany, Moscow, Lockport, Rochester, and Niagara Falls. At East Bethany and Moscow excellent series of the fossil corals for which these localities are noted, were obtained, the specimens including representatives of more than twenty species, and ranging in size from fourteen inches in diameter down. Several thousand specimens of brachiopods, bryozoans, gastropods, and trilobites were also procured. At Lockport, Rochester, and Niagara

Falls, collections of crinoids, brachiopods, trilobites, bryozoans, and plant remains were made in the Niagara shales and Medina sandstones. The series of crinoids procured here was especially fine, some specimens being the best the localities have ever afforded. All the collections were made with a view to representing faunas as well as individual species, and hence have increased value on this account. The quality of the material obtained, as a whole, was excellent, and the large amount collected will afford much available for exchange. A number of specimens of economic interest were also procured. The Department of Botany had three important expeditions in the field during the year. These were planned in order to gain collections and a better knowledge of the northward extension of the Greater Antillean Flora, of which the Curator is making a special study. In March the Curator proceeded to Miami, Florida, thence to New Providence, Bahama, where he spent six days in the exploration of that island in company with Dr. N. J. Britton, Director of the New York Botanical Garden. Hiring, then, a small sloop, he explored the Joulter Cays and the Bimini Islands (seven in number), and crossing the Gulf Stream, returned via Miami. On the same line of investigation, Mr. O. E. Lansing, Jr., of the department, proceeded in February to Miami, whence he took ship to Key West. He collected on this island, then hiring a sloop, visited and collected on the twenty-five islands of the Marquesas Group. Returning to Key West, he secured passage on the U. S. Government lighthouse tender to the Dry Tortugas Group, and there succeeded in thoroughly collecting on five islands of this farthest western extension of the Florida Keys. In March, Mr. Allan B. Burgess, also of the department, was commissioned to explore the east coast of Florida, from New Smyrna to Miami. He proceeded direct to New Smyrna, collecting there and at Cape Canaveral, Eau Gallie, Fort Pierce, Fort Worth, and West Jupiter, giving attention to the coastal flora only. Field work in the Department of Ornithology has been limited to an expedition to Nicaragua by Mr. George F. Breninger, and numerous short trips to the environs of Chicago by the Assistant Curator. Mr. Breninger's trip was eminently successful, as noted elsewhere. Reference is made elsewhere to the various expeditions conducted by the Department of Anthropology. Mr. Alleyne Ireland, however, completed his work for the department in the British East Indies and in the Malayan Archipelago, and it is gratifying to announce that his mission was highly successful. Mr. Edmund Heller, who was accompanied on this trip by Mr. C. M. Barber, secured much valuable zoölogical material in southern Mexico.

The following list indicates the various expeditions sent out during the year:

Locality.	Collector.	Material.
Oklahoma,	George A. Dorsey,	Ethnological Collection.
Oklahoma,	George A. Dorsey,	Ethnological Collection.
Northwest Coast of America,	C. F. Newcombe, . . .	Ethnological Collection.
Malay Peninsula,	Alleyne Ireland, . . .	Ethnological Collection.
Nicaragua,	George F. Breninger	Birds and Eggs.
Southern California, . .	C. L. Owen,	Ethnological Collection.
Arizona,	H. R. Voth,	Ethnological Collection.
Florida Keys,	O. E. Lansing, Jr., . .	Herbarium Specimens.
Bahamas,	C. F. Millspaugh, . . .	Photographs and Herbarium Specimens.
Oklahoma,	James Mooney,	Ethnological Collection.
Montana and Wyoming, .	Elmer S. Riggs,	Vertebrate Fossils.
Northern California, . .	J. W. Hudson,	Ethnological Collection.
Western New York, . . .	A. W. Slocum,	Invertebrate Fossils.
East Coast of Florida, . .	Allan B. Burgess, . . .	Herbarium Specimens.
Southern Mexico,	Edmund Heller and C. M. Barber.	Mammals.

INSTALLATION, REARRANGEMENT, AND PERMANENT IMPROVEMENT.—No appropriation having been made for the construction of cases, there has been comparatively little new installation in any one of the departments. The resources of the Department of Anthropology are taxed to the uttermost to take care of the constantly increasing amount of material which is acquired. The Curator estimates that at the close of this year there will be on hand sufficient material to fill at least five exhibition halls. The scientific arrangement of the department, owing to the lack of floor space, is no longer possible, and the idea of the scientific geographical arrangement must necessarily be abandoned, and future arrangement, therefore, in the present building, will be largely a matter of convenience. Halls 6 and 7 have been overhauled and are now ready for exhibition purposes. The Curator of Geology reports the most extensive rearrangement undertaken was that of Hall 68, where are exhibited clays, soils, etc. As the collection of clays especially had become large and of considerable technical value, a classification was needed by which the collection could be displayed so as to be of general interest. After a study of various classifications, one proposed by Prof. Edward Orton, Jr., was adopted, and the collection rearranged on that basis. The series includes, first, a synoptic collection illustrating varieties of clays and their relations and origins. The classification is indicated in the case by a series



HALL 72. GOLD, SILVER, AND LEAD ORES. DEPARTMENT OF GEOLOGY.

of lines connecting the specimens, after the manner previously employed with much success in the metallurgical collections. Adjoining cases contain specimens of the larger groups of clays, such as fire clays, white-burning clays, red-burning clays, and calcareous clays. These are in turn sub-divided according to localities and varieties. Since the most important uses of clays depend upon the properties of the burnt material, there was prepared from each clay, so far as possible, a burnt briquette about two inches square and one-fourth of an inch thick. These show color and texture of the burnt product, shrinkage, warping, and other important phenomena. They are exhibited in each case in connection with the corresponding clays, thus enabling the properties of the burnt and raw material to be studied at the same time. The number of briquettes prepared for this purpose was 140. Acknowledgments are due Mr. John J. Moroney of Chicago for assistance in their preparation. Occupying another case in the hall are substances allied to clay in composition, including especially ochers, fuller's earths, talcs, and meerscham. Another collection illustrates the effect of various ingredients upon clays. The collection of soils shown in the same hall has been much improved and enlarged, especially by the addition of a classified series of about forty soils and subsoils donated by the United States Department of Agriculture. With this addition the collection illustrating varieties of soils has become a fairly complete one. The composition of soils, their origin, and plant foods are also illustrated by collections. The collections of sands and cements have not been especially enlarged, since the space available for them is limited at present. In Hall 72, devoted to ores of the precious metals, a complete rearrangement of the upright floor cases has been made in order to provide additional exhibit space and give better lighting of the specimens. This has been accomplished by turning the cases at right angles to their former positions, thus making alcoves in which the material has been installed. A considerable rearrangement of specimens and photographs was performed in connection with this work. A case of abrasives has been added to Hall 78, and an additional large wall case provided in the same hall for exhibiting the series of salts of soda, potash, lime, etc., which had outgrown its former space. The abrasives shown include the extensive series of garnets and corundums collected by the Assistant Curator in the Southern States, and specimens of tripoli, silica, chalk, etc., obtained from various sources. In Hall 64, the interiors of all the wall cases have been painted, and the specimens which occupied them cleaned and reinstalled. A collec-

tion of radioactive minerals, prepared in the Department, was also installed here. This collection contains all known radioactive mineral species so far as they could be procured, and in connection with each specimen is exhibited a radiograph made by the specimen itself upon a photographic plate. Electrical tests of the radioactivity of many of the specimens were also kindly made by Prof. R. A. Millikan of the University of Chicago, giving data which are exhibited in connection with the collection. The series of models of famous diamonds exhibited in the same hall has been increased by the addition of seven important ones not before represented, and the whole series has been reinstalled in an attractive manner. In Hall 65 an individual case has been provided for the large glaciated copper boulder presented by Mr. Joseph Austrian. In connection with the labeling of the systematic rock collection in Hall 66, a careful re-identification of the specimens has been made, and a rearrangement carried out in order to improve the classification. In connection with this work, about twenty sections for microscopic study were made. Several complete rock analyses were also made in the Department laboratory. A number of photographs made by the Curator in Mexico were framed and installed in the hall in connection with the series of volcanic rocks collected at the same time. In Hall 77 a large framed geological map of Japan has been installed, also a transparency of Mont Pelee, presented by Mr. Morris K. Jesup, and four geological photographs loaned by the Curator. The interiors of the cases in Hall 71 have been cleaned and repainted where necessary. New meteorite specimens, as fast as received, were placed on exhibition in Hall 62, and frequent treatment with paraffin has been given all specimens showing a tendency to decompose. About twenty sections of as many stony meteorites were made for purposes of microscopic study. Upon ten of the floor cases in Hall 35 large descriptive labels have been placed. Throughout the paleontological collections, where the beauty or delicacy of structure of a specimen was such as to make it desirable, there have been installed magnifying lenses two inches in diameter and of three-inch focus. About sixty lenses have been so placed, and an increased interest in the study of the collection by visitors is noticeable as a result. In the paleontological laboratory, a considerable amount of time was devoted to the preparation of the incomplete skeleton of the huge dinosaur, *Brachiosaurus*, collected in 1900. The remains were too few in number to be of much value for exhibition purposes, but the great scientific importance of the specimen, due to its being the type of a new family and genus, and the largest known

land animal, seemed to justify a thorough working out of the material on hand. The work was accordingly carried to completion, with results which have been set forth in the scientific publications of the Museum. Seven vertebræ of a Morosaur skeleton collected in 1900 were also worked out, this being a dinosaur whose structure is little known, and one of which the Museum possesses the most complete vertebral column so far found. A skeleton of Procamelus collected in 1898 was also partially prepared for exhibition. A thorough re-assortment of the study collections and duplicate material of all kinds in the Department was made during the year, for the purpose of reducing the space which they occupied, and of classifying the material. Some obsolete material was discarded, and the accessibility of these collections was much increased. For exhibition in connection with the ore collections in Halls 72 and 79, a series of maps has been prepared, upon which are mounted specimens of the ores mined at important producing localities. Relief maps are employed for the purpose, in order to bring out facts of distribution which might otherwise be overlooked. Thus the restriction of profitable gold and silver ores to mountainous regions, and especially the Cordilleras, is shown vividly by these maps, as well as the fact that conditions of transportation, water supply, etc., resulting from relief, often determine whether ores can be profitably worked. Six maps have thus been prepared or are in process of preparation. These illustrate respectively the important gold and silver producing districts of North America, and the important copper, zinc, iron, and oil producing districts of the United States. The Curator of Zoölogy reports that 6 skeletons and 23 large skulls have been placed on exhibition, and 2,505 skulls have been cleaned and placed in the study collection, and 3,340 skulls labeled and recorded.

PRINTING.—The printing office still shows good results. Its capacity should be increased, but floor space is not at present available for an extension in the quarters now occupied. The following table shows the number of label forms and other impressions made during the year:

	Labels.	Other Impressions.
Anthropology,	3,352	7,280
Botany,	624	23,893
Geology,	2,496	5,250
Ornithology, . . . . .	....	1,300
Zoölogy,	555	66,305
Director's Office, . . . . .	....	49,936
Library,	6	5,500

PHOTOGRAPHY AND ILLUSTRATION.—This division has been exceptionally busy throughout the year, and both in the quantity and the quality of the work has made an excellent record. The following is a statement of the work performed:

	Negatives.	Prints.	Lantern Slides.
Director's Office,	51	52	..
Anthropology,	5,306	3,706	..
Botany,	24	180	66
Geology,	212	203	91
Ornithology,	94	....	100
Zoölogy,	157	296	29
Distribution,	179	128	207
Totals,	6,023	4,565	493

Negatives made in the field by Curators of Departments and developed by the Division of Photography:

Anthropology,	476
Botany,	84
Geology,	31
	591

SUMMARY OF YEAR'S WORK.

Negatives,	6,023
Prints,	4,565
Lantern Slides,	493
Curator's Negatives,	591
	11,672

ATTENDANCE.—The total number of visitors recorded during the year was 245,125, being a decrease of 50,165 in the figures for the previous year. The daily average showed 668, as against 809. No plausible reason, other than the inclement weather during the winter months, and the omission of the Spring Lecture Course, can be given for the falling off in attendance. A number of eminent and distinguished students of the different sciences have visited the institution during the year, most of whom were en route to the Louisiana Purchase Exposition in St. Louis. Gratifying expressions at the progress of the institution were frequent. The classification of the attendance during the year follows, and a list of the school classes, thirty pupils or more, that visited the institution during the year:

LIST OF CLASSES.

Schools and Location.	Teachers.	Pupils.
Talcott—W. Ohio st., corner Lincoln st.,	1	45
School of Education—University of Chicago,	3	46
River Forest—River Forest, Ill.,	1	32
Talcott—W. Ohio st., corner Lincoln st.,	1	42



PLATE LII.

Reproduction from life casts made on Vancouver Island in 1899, installed in Hall 12. Size of case, eight by twelve feet. The figures were arranged, costumes adjusted, and faces painted by Kwakiutl Indians of Vancouver Island.

Schools and Location.	Teachers.	Pupils.
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	1	38
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	4	60
Medill—W. Fourteenth pl., near Throop st.,	3	73
Sherwood—Princeton ave. and Fifty-seventh st.,	2	42
Kenwood—Lake ave., corner Fiftieth st.,	1	35
School for Crippled Children—W. Lake and Elizabeth sts.,	9	60
Sherwood—Princeton ave. and Fifty-seventh st.,	2	37
Myra Bradwell—Sherman ave. and Seventy-seventh st.,	1	45
John Marshall—W. Adams st. and Kedzie ave.,	2	61
University of Minnesota—Minneapolis, Minnesota,	1	49
Kenwood—Lake ave., corner Fiftieth st.,	1	43
Keith—Thirty-fourth and Dearborn sts.,	1	33
Normal—Sixty-eighth st. and Stewart ave.,	1	41
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	4	95
Jackson Park Branch of the Ray—Fifty-sixth st. and Stony Island ave.,	2	44
University of Chicago,	1	34
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	2	45
Kershaw—Union ave. and W. Sixty-fourth st.,	2	66
Normal—Sixty-eighth st. and Stewart ave.,	2	60
Englewood High—W. Sixty-second st., corner Stewart ave.,	1	116
Chase—Cornelia st. and Point st.,	1	35
St. Martin's—W. Fifty-ninth st., corner Princeton ave.,	10	273
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	2	42
Seymour—Blue Island, Ill.,	2	59
Kershaw—Union ave., and W. Sixty-fourth st.,	1	34
McClellan—Thirty-fifth and Wallace sts.,	1	51
Oliver Goldsmith—210 Maxwell st.,	2	46
La Fayette—Hammond, Ind.,	2	42
Riverside and Franklin—Hammond, Ind.,	10	151
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	1	57
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	33
Pullman—Pullman, Ill.,	1	37
La Fayette and Central—Hammond, Ind.,	5	109
Tilden—W. Lake and Elizabeth sts.,	1	59
Thomas Hoyne—Illinois st., corner Cass st.,	2	42
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	42
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	37
Kershaw—Union ave. and W. Sixty-fourth st.,	2	35
Irving—Berwyn, Ill.,	1	32
Kershaw—Union ave. and W. Sixty-fourth st.,	2	78
J. N. Thorp—Superior ave. and Eighty-ninth st.,	2	60
St. Mary's High—Sixty-seventh st., corner Page st.,	9	145
St. Patrick's—Desplaines and W. Adams sts.,	4	104
West Pullman—West Pullman, Ill.,	2	40
Moseley—Twenty-fourth st. and Michigan ave.,	2	58
Baptist Missionary Training School,	1	43
Skinner—Jackson boul., corner Aberdeen st.,	2	39
Kershaw—Union ave. and W. Sixty-fourth st.,	1	40

Schools and Location.	Teachers.	Pupils.
J. N. Thorp—Superior ave. and Eighty-ninth st.,	1	46
Joseph Jungman—W. Eighteenth and Nutt sts.,	1	33
Normal—Sixty-eighth st. and Stewart ave.,	1	34
W. K. Sullivan—Eighty-third st., corner Houston ave.,	2	68
St. Joseph's Orphan Asylum—Thirty-fifth st., corner Lake ave.	9	160
D. R. Cameron—Potomac ave., corner Monticello ave.,	3	132
J. L. Pickard—W. Twenty-first pl. and S. Oakley ave.,	2	30
Kinzie—Ohio st., corner La Salle ave.,	2	36
Fallon—W. Forty-second st. and Wallace st.,	1	38
Pullman—Pullman, Ill.,	1	35
Taylor—Ninety-ninth st. and Avenue J,	4	210
A. L. Barnard—W. One Hundred and Fourth and Charles sts.	1	51
Pullman—Pullman, Ill.,	2	78
Chicago Home for the Friendless—5059 Vincennes ave.,	1	36
Calumet High—W. Eightieth st. and Normal ave.,	5	189
A. A. Libby—W. Fifty-third and Loomis sts.,	2	32
University of Chicago	1	40
St. Patrick's—Ninety-fifth st. and Commercial ave.,	1	123
University of Chicago	3	115
University of Chicago	1	35
Armour Mission—Thirty-third st. and Armour ave.,	72	421
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	2	65
Hyde Park High—Fifty-sixth st. and Kimbark ave.,	2	124

The following comparison between the daily attendance in the year ending September 30, 1903, and the year ending September 30, 1904, is submitted:

	Increase.	Decrease.
Total Attendance,		50,165
Paid Attendance,		4,450
Attendance of School Children on Pay Days		641
Attendance of Students,		249
Attendance of Teachers,		24
Attendance of Members,		41
Average Daily Attendance, 1903,	809	
Average Daily Attendance, 1904,	669	

Herewith are also submitted financial statements, analysis of attendance, list of accessions, names of members, etc.

FREDERICK J. V. SKIFF,

DIRECTOR.

FINANCIAL STATEMENT.

RECEIPTS AND DISBURSEMENTS

During the Year Ending September 30, 1904.

RECEIPTS.

Cash in Treasurer's hands, September 30, 1903,		\$6,623.21
Cash in Treasurer's hands, September 30, 1903 (Special Fund),		1,013.35
Petty Cash on hand, September 30, 1903,		739.95
Dues of Members —		
Corporate	\$140.00	
Annual	2,490.00	2,630.00
Admissions and Check Rooms,		5,957.80
Sale of Guides,		298.25
South Park Commissioners,		15,000.00
Chicago City Railway Company,		2,250.00
Interest on Investments, etc.,		42,966.63
Sundry Receipts,		2,389.23
Huntington W. Jackson, Library Fund,		33.94
Final Dividend on World's Columbian Exposition Stock,		61,209.38
Sale of Securities,		15,000.00
Donations —		
Stanley McCormick (Special),	300.00	
W. J. Chalmers,	6.00	306.00
		<u>\$156,417.74</u>

DISBURSEMENTS.

Salaries,		\$59,494.86
Guard Service,		11,849.78
Janitor Service,		6,118.97
Fire Protection,		3,023.57
Heat and Light —		
Wages,	\$3,370.42	
Fuel and Supplies,	6,522.94	
Additions to Plant,	1,307.50	11,200.86
<i>Carried forward,</i>		<u>\$91,688.04</u>

	<i>Brought forward,</i>		\$91,688.04
Repairs and Alterations —			
	Wages of carpenters, painters, roofers, . . .	\$7,684.65	
	Material used — paints, oils, lumber, glass, etc.,	1,131.83	8,816.48
Furniture and Fixtures —			
	Cases and Bases,	661.11	
	Sundries,	263.88	924.99
The Library —			
	Books and Periodicals,	626.33	
	Binding,	323.65	
	Sundries,	20.52	970.50
Sections of Printing and Photography,			1,376.75
Collections, etc., purchased,			6,731.00
Departmental Expenses,			3,853.55
Huntington W. Jackson, Library Fund,			981.08
General Expense Account —			
	Freight, Expressage, and Teaming, . . .	1,785.18	
	Stationery, P o s t a g e , Telegrams and Telephone,	986.26	
	Expeditions,	9,460.16	
	Publications,	12,345.99	
	Sundries,	1,407.42	25,985.01
			<hr/>
			\$141,327.40
In Treasurer's hands, September 30, 1904,	\$14,350.39		
Petty Cash on hand September 30, 1904,	739.95		\$15,090.34
			<hr/>
			\$156,417.74

ATTENDANCE AND RECEIPTS FOR THE YEAR ENDING SEPT. 30, 1904.

ATTENDANCE.

Paid Attendance —		
Adults,	19,653	
Children,	1,293	20,946
<hr/>		
Free Admission on Pay Days —		
School Children,	6,185	
Students,	2,759	
Teachers,	490	
Members—Corporate,	13	
Annual,	170	
Life,	13	
Officers' Families,	19	
Special,	133	9,782
<hr/>		
Admissions on Free Days —		
Saturdays,	44,781	
Sundays,	169,616	214,397
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Total Attendance,		245,125
Highest Attendance on any day (June 12, 1904),		7,986
Highest Paid Attendance on any day (July 4, 1904),		583
Average Daily Admissions (366 days),		669
Average Paid Admissions (262 days),		79

RECEIPTS.

Guides sold — 1,193 at 25 cents each,	\$298.25
Articles checked — 18,305 at 5 cents each,	915.25
Admissions,	5,042.55
	<hr/>
	\$6,256.05

ACCESSIONS.

FROM OCTOBER 1, 1903, TO SEPTEMBER 30, 1904.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AYER, E. E., Chicago.
 1 Malay shield ornamented with hair and inlaid shell.
 1 bronze fibula, 1 bronze bell, 1 bronze lamp, 2 bronze buckles, 1 earthen mould — Italy.
- AYER, MRS. E. E., Chicago.
 String of carnelian, lapiz lazuli, turquoise beads, etc.—Dashur, Egypt.
- BADGER, J. S., Brisbane, Australia.
 3 pieces of ethnological specimens from the Pacific Islands (exchange).
- CORY, CHAS. B., Boston, Mass.
 1 large coiled basket for storing grain — Arizona.
- FIELD COLUMBIAN MUSEUM.
 Collected by Geo. A. Dorsey:
 1 Cheyenne medicine war shield, from Sand Hills battle.
 1 Navaho girl's dress.
 1 Arikara calf robe.
 1 Arikara suit.
 1 pair doctor's leggings (Pawnee).
- Collected by J. W. Hudson:
 Ethnological specimens from Klamath River and Kern and Inyo counties, California.
- Collected by Jas. Mooney:
 Ethnological specimens from the Cheyenne and Arapaho—Oklahoma.
 Shield with cover (buckskin) belonging to High-Back Wolf, a southern Cheyenne.
- Collected by Chas. F. Newcombe:
 Ethnological collections from the Northwest coast.
 Skulls and skeletons of Salish and Kwakiutl.
- Collected by C. L. Owen:
 Ethnological specimens from the Mission Indians—California.
- Collected by S. C. Simms:
 Ethnological specimens from Cree of Canada and Ojibwa of Minnesota.
- Purchases:
 1 papyrus.
 3 carved elephant tusks—Benin.
 Ute shield.
 Sioux war club.
 Bark loin-cloth, Bulu—Africa.
 3 buckskin shirts, Arapaho and Crow.
 Painted ceremonial buffalo robe.
 1 pair medicine man's leggings (Pawnee).
 Carved fish-killing club (Haida).
 2 ceremonial robes—Hopi, Arizona.
 2 decorated ceremonial buffalo robes, Rio Grande, Pueblo—New Mexico.
 Ethnological specimens from Vancouver Islands.
 Archaeological specimens from graves of Arkansas.



PLATE LIII.)

Communal grave house installed in the Department of Anthropology. It measures seventeen by twenty feet. The only similar house known to exist is in Queen Charlotte Islands.

- GILL, D. L., Washington, D. C.
400 prints of Cheyenne, Arapaho, Pawnee, Wichita, and Arikara (exchange).
- JAMES, S. L., Chicago.
5 mummies, 5 mummy cases, earthenware, stone carvings, etc.—Egypt.
- MILLS, OWEN W., Millbury, Mass.
75 flaked stone implements and fragments of steatite pots—Millbury, Mass. (exchange).
- MOORE, C. B., Philadelphia, Pa.
15 specimens antiquities from Florida coast.
- PHILLIPS, DR. W. A., Evanston, Ill.
Woven bags, mats and unfinished mats, bark, photographs, etc., of Indians of Michigan.
- SELLERS, F. H., Chicago.
Archæological specimens from Mexico, California, Oregon, etc.
Photographs of Mexican antiquities.
- UMLAUFF, J. F. G., Hamburg, Germany.
One set of photographs of a Maori habitation.
- ZAUBOULAKIS, J., Chicago.
18 specimens clay tablets, pipes, and boxes, flint and copper arrow heads.

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ABAZA, ABDEL HAMID, St. Louis, Mo.
23 specimens various economic plant products—Egypt.
- AMES BOTANICAL LABORATORY, North Easton, Mass.
64 herbarium specimens—South Florida (exchange).
- ARNOLD ARBORETUM, Jamaica Plain, Mass.
41 herbarium specimens—Delaware, New York, Massachusetts (exchange).
- AYER, MRS. E. E., Lake Geneva, Wis.
1 herbarium specimen—Lake Geneva, Wis.
- BEBB, ROBERT, Chicago.
234 herbarium specimens—various localities (exchange).
- BRANDT CHEMICAL COMPANY, Binghamton, N. Y.
19 specimens illustrating the manufacture of distillates from wood.
4 pièces charcoal.
- CALKINS, W. W., Chicago.
1 specimen lichen—Andros Island, Bahamas.
- CANBY, W. M., Wilmington, Del.
25 herbarium specimens—Delaware.
- CHASE, MRS. AGNES, Chicago.
79 herbarium specimens—Illinois, Indiana, and New Hampshire (exchange).
7 herbarium specimens—Illinois, Indiana, and Tennessee (exchange).
4 herbarium specimens—Illinois and Indiana.
1 specimen Buxbaumia—Furnessville, Ind.
- CHASE, V. H., Wady Petra, Ill.
697 herbarium specimens—Illinois (exchange).
- CLARK, H. WALTON, Chicago.
101 herbarium specimens—Lake Chicago Basin.
- DENVER CHAMBER OF COMMERCE, Denver, Colorado.
4 specimens Colorado rubber plant.

FERRISS, JAMES H., Joliet, Ill.

11 herbarium specimens—Texas (exchange).

FIELD COLUMBIAN MUSEUM.

Collated by Mrs. Agnes Chase:

2 portions dried plants—Mexico and Cozumel Island.

Collated by Chas. F. Millspaugh:

27 parts of herbarium specimens—New York Botanical Garden.

2 fragments of herbarium specimens—Bahamas.

12 parts of herbarium specimens—Missouri Botanical Garden.

Collected by Allen B. Burgess:

329 herbarium specimens—Illinois and Michigan.

242 herbarium specimens—Southern Florida.

Collected by O. E. Lansing, Jr.:

676 herbarium specimens—Southern Florida.

Collected by Chas. F. Millspaugh:

476 herbarium specimens—Bahamas.

Purchases:

208 herbarium specimens—Bahamas.

204 herbarium specimens—Oregon.

119 herbarium specimens—Illinois.

137 herbarium specimens—Jamaica.

1 specimen ivory nut fruit, complete—South America.

21,528 herbarium specimens—various localities.

682 herbarium specimens—Palestine.

GREENE, EDWARD L., Washington, D. C.

376 herbarium specimens—Venezuela.

196 herbarium specimens—Bolivia.

177 herbarium specimens—various localities.

174 herbarium specimens—various localities.

145 herbarium specimens—various localities.

142 herbarium specimens—Bolivia.

176 herbarium specimens—Bolivia.

273 herbarium specimens—Bolivia.

270 herbarium specimens—Bolivia.

397 herbarium specimens—various localities.

442 herbarium specimens—various localities.

918 herbarium specimens—various localities.

HARDY, DR. HUGO, St. Louis, Mo.

17 specimens various economic plant products—German East Africa.

HILL, E. J., Chicago.

46 herbarium specimens—Illinois and Michigan (exchange).

HOWE, CLIFTON D., Essex Junction, Vermont.

240 herbarium specimens—Newfoundland and Nova Scotia.

KÖNIGL HOF MUSEUM, Berlin, Germany.

152 herbarium specimens—Yucatan and Mexico (exchange).

12 herbarium specimens—Yucatan and Campeche.

19 herbarium specimens—Yucatan (exchange).

KRUG & URBAN HERBARIUM, Berlin, Germany.

84 herbarium specimens—various localities (exchange).

MAYERHOFF, REV. PAUL S., Fort Apache, Arizona.

4 herbarium specimens—Fort Apache, Arizona.

MCDONALD, FRANK E., Peoria, Ill.

56 herbarium specimens—Illinois (exchange).

MILLSPAUGH, CHAS. F., Chicago.

9 herbarium specimens—Chicago.

1 specimen, fruits of *Hicoria alba*.

MUSÉUM D'HISTOIRE NATURELLE, Paris, France.

3 specimens, plant fragments and photograph—Mexico and Martinique.

- NATAL BOTANIC GARDENS, Berea, Natal, Africa.
111 herbarium specimens—South Africa (exchange).
- NEWCOMBE, CHAS. F., Victoria, B. C.
122 herbarium specimens—British Columbia and Queen Charlotte Islands.
1 herbarium specimen—British Columbia.
- NEW YORK BOTANIC GARDEN, Bronx Park, New York.
2 samples of sugar—Java (exchange).
1,517 herbarium specimens—Jamaica (exchange).
62 herbarium specimens—various localities (exchange).
164 herbarium specimens—Colorado (exchange).
15 photographs of Botanists.
526 herbarium specimens—West Indies (exchange).
159 herbarium specimens—Colorado (exchange).
- OHIO STATE UNIVERSITY, Columbus, Ohio.
40 specimens fungi exsiccati—Ohio (exchange).
- PACIFIC PINE NEEDLE COMPANY, San Francisco, Cal.
4 specimens pine needle products.
- PEPOON, DR. H. S., Chicago.
2 photographs of plants—Illinois.
- PIERCE, H. J., Buffalo, N. Y.
4 specimens of destructive distillates of wood.
- RYERSON, MARTIN A., Chicago.
1 specimen, curious root growth—Chicago.
- SCHLECHTER, RUDOLPH, Berlin, Germany.
1 dried plant, type of *Euphorbia*—South Africa (exchange).
- SECRETARY DEUTSCHER ORIENTGESELLSCHAFT, Berlin, Germany.
1 specimen ancient wheat—Egypt.
- SNYDER, MRS. MARY S., Pacific Beach, Cal.
7 herbarium specimens—California and Sandwich Islands.
- STONE, FRANK B., Chicago.
2 specimens of Cuban oak.
- TIBBE, H. & SON, Washington, Mo.
4 specimens illustrating the manufacture of corncob pipes.
- UNITED RAILWAY & TRADING COMPANY, Braithwaite, La.
14 specimens bagasse paper and process.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
10 specimens North America violets (exchange).
63 specimens fungi—various localities (exchange).
- WATERBURY BUTTON COMPANY, Waterbury, Conn.
6 specimens vegetable ivory products.
- WHITFORD, H. N., Chicago.
208 herbarium specimens—Long Island, N. Y.

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AUSTRALIAN MUSEUM, Sydney, New South Wales.
21 specimens minerals—Australia (exchange).
- AUSTRIAN, JOSEPH, Chicago.
1 mass of native copper, found near Kalamazoo, Mich., weight 101¼ pounds.
- BAKER, J. E., Garrett, Ind.
1 specimen peat fiber—Garrett, Ind.
- BEACH, HENRY L., Chicago.
1 tooth of mammoth—Big Minook Creek, near Rampart City, Alaska.

BÖHM, JULIUS, Vienna, Austria.

145 grams N'Goueyma meteorite, 50½ grams Senhadja meteorite,
29 grams Girgenti meteorite (exchange).

BREZINA, DR. A., Vienna, Austria.

44 grams Nerft meteorite, 156 grams Merceditas meteorite (exchange).

CALIFORNIA STATE MINING BUREAU, San Francisco, Cal.

1 specimen nitrous earth, 1 specimen infusorial earth—California.

CARBORUNDUM COMPANY, Niagara Falls, N. Y.

2 lbs. metallic silicon.

CENTRAL SCHOOL SUPPLY HOUSE, Chicago.

1 relief map of France.

CHALMERS, W. J., Chicago.

2 specimens topaz crystals—North Chatham, N. H.

CHICAGO GRAPHITE MANUFACTURING COMPANY, Chicago.

1 specimen foliated graphite (disseminated in calcite)—Dillon, Mont.

2 specimens graphite—Mexico and Austria.

CONNELLY, A. S., Cheyenne, Wyo.

1 specimen molybdenite—Wyoming.

DEPARTMENT OF MINES, Sydney, New South Wales.

292 grams Mt. Dyrning meteorite, 186 grams Mt. Browne meteorite—
New South Wales (exchange).

DEXTER, MISS L., Chicago.

1 specimen chalcedony—Tampa Bay, Florida (exchange).

DIVEN, THOS. J., Chicago.

39 specimens garnet crystals—California.

DOHMEN, U. A., Chicago.

4 specimens celestite—Put-in-Bay, Lake Erie.

ELDREDGE, E. W., Chicago.

1 specimen molybdenite—Montana.

ELLIS, E. B., Northfield, Vermont.

1 slab of Bethel white granite—Northfield, Vermont.

FARRINGTON, O. C., Chicago.

1 specimen crystallized beryl—Stoneham, Maine (loan).

1 specimen radioactive uraninite—Wood Mine, Colorado.

33 specimens minerals, 8 specimens diamond-bearing gravel—Brazil
(loan).

5 photographs (loan).

FIELD COLUMBIAN MUSEUM.

Collected by Dr. S. M. Bradbury:

1 lot agatized bones—Near Fruita, Colo.

Collected by O. C. Farrington:

11 specimens minerals, 3 specimens rocks—Maine and Massachusetts.

36 specimens ores and minerals—St. Louis, Mo.

Collected by H. W. Nichols:

27 specimens sand concretions, dune sand soil and subsoil—Spring
Lake, Mich.

Purchases:

1 specimen *Platecarpus*.

6 relief maps.

8 specimens crystallized samarskite—Spruce Pine, N. C.

1 aerolite, weight 1,150 grams, Ness County, Kansas.

1 slab of dinosaur tracks—Lee's Ferry, Ariz.

8 mineral specimens.

Rodeo meteorite—Rodeo, Durango, Mexico.

85 grams Lance meteorite—Lance, France.

3 specimens minerals, 2 specimens fossil sponges, 8 specimens fossil
gastropods, 33 specimens fossil bryozoans, 780 specimens fossil
brachiopods.

FIELD COLUMBIAN MUSEUM—continued.

- Purchases—continued.
 3 specimens fossil crinoids, 20 specimens fossil trilobites—Wisconsin.
 7 models of noted diamonds.
 763 grams Finmarken meteorite—Norway.
 8 specimens variscite—Utah.
 5 specimens minerals.
- FOHRMAN, CHAS. A., Harvey, Ill.
 1 specimen graphite.—Montana.
- FOOTE MINERAL CO., Philadelphia, Pa.
 1 specimen gypsum crystal, 1 specimen calcite crystal, 3 specimens tellurides of gold and mercury (exchange).
- FORD, H. R. Garrett, Ind.
 1 specimen peat—Garrett, Ind.
- GEOLOGICAL SURVEY OF INDIA, Calcutta, India.
 11 grams Shalka meteorite, 351 grams Sindhri meteorite, 175 grams Kodaikantal meteorite—India (exchange).
- GUION, G. MURRAY, Chicago.
 1 specimen banded novaculite—Hot Springs, Ark.
- HARTWELL, GEO. H., Chicago.
 3 specimens pottery and fire clays—Newport, Ind.
- HARWOOD, A. R., Gonzales, Tex.
 1 specimen kaolin—Gonzales, Texas.
- HEMSHELL, JOHN, Hinsdale, Ill.
 10 boulders, showing various rock structures, 1 specimen concretion, 1 specimen incrustations, 32 specimens fossils.
- HENRY, W., Calais, Me.
 1 specimen molybdenite—Cooper, Maine.
- HUENNEKES, H. CO., New York City.
 1 specimen sand-lime brick—Atlantic City, N. J.
- JESSUP, MORRIS K., New York City.
 1 transparency of Mont Pelee—Mont Pelee, Martinique.
- JOHNSTON, W. M., Chicago.
 1 specimen auriferous beach gravel, 1 specimen tundra—Nome, Alaska.
 18 specimens limonite, pseudomorph after pyrite—Montana.
- JONES, S. P., Atlanta, Ga.
 1 specimen crystallized quartz—Statham, Georgia.
- KEARNEY, W. H., Boise City, Idaho.
 4 specimens mendozite and kalinite, 2 specimens associated alum shale—Utah.
- KENDALL, J. B., Washington, D. C.
 1 specimen cadmium, 1 specimen manganite—Bombay, India.
 1 specimen pyrolusite—Russia.
- KENKEL, L. V., Chicago.
 1 specimen silver-copper ore—Colorado.
 1 specimen silver-lead ore—Washington.
- KUNSTMAN, ROBERT, Chicago.
 1 specimen steatite—Arkansas.
- MAYERHOFF, REV. PAUL S., Lynch, Nebr.
 30 specimens chalcedony chips, 3 specimens oligoclase, 3 specimens smoky quartz, 500 specimens gem peridots, 13 specimens spinel and magnetite—Arizona.
- MITCHELL, GEO. H., Chicago.
 1 block building-stone—Hermon, Maine.

- MORONEY, J. J., Chicago.
 104 specimens dry press briquettes—United States and Mexico.
 1 specimen coal briquette—Tesla, Calif.
 3 specimens clays, 1 specimen pumice—United States.
 1 specimen infusorial earth, 7 specimens clays, 4 specimens briquettes—United States and Cuba.
 3 specimens briquettes, 1 specimen clay—United States.
- MORRISON, DONALD S., Onigum, Minn.
 1 specimen calc sinter—Minnesota.
- NORTHWESTERN TERRA-COTTA CO., Chicago.
 7 specimens pottery and fire clays.
- NORTON, E. G., Lockport, Ill.
 1 specimen gold in pyrite—Grass Valley, Calif. (exchange).
- RAIMES & CO., New York City.
 4 specimens siliceous chalk and products—Austria.
- RICHARDSON, E., Chicago.
 9 specimens abrasives and minerals.
- ROHWEDDER, F., Chicago.
 1 specimen lodestone—Ironton, Mo.
- SCOTT, GEO. S., Chicago.
 6 specimens kunzite—Pala, California (exchange).
 1 specimen natrolite—Bohemia (exchange).
- SELLERS, FRANK H., Chicago.
 4 specimens fossil bones, 14 specimens fossil teeth, 13 specimens minerals.
- SICKLER, F. M. AND M. M., Pala, California.
 1 specimen crystallized beryl, 3 specimens triplite, 2 specimens amblygonite, 6 specimens quartz crystals—Pala, California.
- SNYDER, FRED T., Oak Park, Ill.
 1 specimen columbite sand, 1 specimen monazite sand—New Mexico.
- STURTZ, B., Bonn, Germany.
 108 grams Plymouth meteorite (exchange).
 184.7 grams Fisher meteorite (exchange).
- UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C.
 41 specimens typical soils and sub-soils.—United States.
- WARD, HENRY A., Chicago.
 218 grams Canyon City meteorite, 136 grams Hvittis meteorite, 50½ grams Indarch meteorite, 7 grams Djati-Pengilon meteorite, 50 grams Utrecht meteorite, 5 grams Nowo-Urei meteorite, 10½ grams Manbhoom meteorite, 1 gram Agra meteorite, 17 grams Futtehpur meteorite, 1,494 grams Willamette meteorite (exchange).
- WARNKE, F. H., Karnes City, Texas.
 2 specimens volcanic ash—Texas.
- WATTS, MRS. FLORENCE, Senoia, Ga.
 2 specimens massive garnet, 1 specimen weathered serpentine—Senoia, Ga.
- WEBER, DR. F. C., Chicago.
 1 specimen copper ore—Prince of Wales Island.
- WILLARD, NORMAN P., Chicago.
 1 specimen copper-platinum ore—Wyoming.
 8 specimens copper ore—Wisconsin.

PLATE LIV.

The collection is made up of specimens of radio-active minerals, in connection with each of which is shown a radiograph, made by placing some metallic object upon an ordinary photographic plate, and exposing both to the rays emitted by the specimen for a period of 24 to 84 hours.

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- DEWEY, CLARENCE L., Chicago.
56 birds' eggs—Dowagiac, Mich.
- FIELD COLUMBIAN MUSEUM.
Collected by Geo. F. Breninger:
33 bird skins—Phoenix, Ariz.
424 bird skins, 4 birds' eggs—Nicaragua.
14 bird skins—Arizona.
Collected by N. Dearborn:
147 bird skins, 7 birds' nests, 230 birds' eggs—Chicago.
Collected by E. Heller:
55 bird skins—Ahotal, Mexico.
13 bird skins—Oaxaca, Mexico,
3 bird skins—Oaxaca, Mexico.
72 bird skins—Mexico.
Purchases:
2 old-squaw ducks—Chicago.
18 bird skins—Camerouns, W. Africa.
1 arctic loon, 1 allied shearwater, 1 muscovy duck, 1 great snipe.
- FISCHER, J. E., Chicago.
1 ruffed grouse—Central Wisconsin.
- FRASER, REV. MELVIN, Clifton Springs, N. Y.
1 gray parrot—Camerouns, W. Africa.
- GAMMELL, ROBERT E., Chicago.
1 nest of blue-gray gnatcatcher—Chicago.
- HENDRICKS, GENEVIEVE, Chicago.
1 oven-bird—Chicago.
- KENNICOTT, WALTER, AND JOHN DEARLOVE, The Grove, Ill.
2 pine grosbeaks—The Grove, Ill.
- PRAY, L. L., Chicago.
1 barred owl—Dowagiac, Mich.
- SHIRLAW, MARGARET, Chicago.
2 eggs of Panama parrot.
- TIEARNEY, CHAS. J., Chicago.
1 fish duck—Chicago.
- WHITMAN, C. O., Chicago.
1 crested pigeon.
1 oriental turtle dove.
- WILLIAMSON, D. K., Bluffton, Ind.
183 bird skins—Indiana and Ohio.

DEPARTMENT OF ZOÖLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- BARBER, C. M., Chicago.
1 rabbit, 1 musk rat, 1 wood-rat, 2 squirrels, 1 flying squirrel, 1 chipmunk, 3 shrews, 5 mice, 6 voles—Laporte, Ind.
- CLARK, H. W., Chicago.
1 bat—Chicago.
7 specimens beetles, water bugs, butterfly—Chicago and Wolf Lake, Ill.
- CROWTHER, MRS. H. H., Chicago.
1 beetle—Akron, Ohio.
1 fly, 1 horntail, 1 cricket—Chicago, Ill.

DOHMEN, U. A., Chicago.

4 flies, 3 beetles—Chicago.

FIELD COLUMBIAN MUSEUM.

Collected by W. J. Gerhard:

120 specimens parasites, bugs, beetles, plant-lice, spiders, flies, moths, etc.—Chicago, Ill.

210 specimens bees, wasps, thrips, grasshoppers, moths, flies, etc.—Illinois.

Collected by E. Heller:

53 specimens lizards, 21 specimens snakes—California.

504 specimens gophers, wood-rats, squirrels, mice, ground squirrels, voles, chipmunks, bats, weasels, hares, polecats, rabbits, shrews, jack-rabbits, etc.—California.

28 specimens woodchucks, foxes, deer, badger, wolves, porcupine, wolverine—California.

7 bats—California.

159 specimens wood-rats, mice, pocket mice, shrews, rabbits, skunk, ground squirrels, gophers, voles, chipmunks, badger—California.

2 antelope, 23 bats—California.

13 bats—California.

320 specimens gophers, opossums, squirrels, mink, mice, rats, bats, tapirs, monkeys, agouti, ocelots, jaguar, ant bear, skunk, coon, deer, porcupine, peccary—Mexico.

159 specimens peccaries, opossums, deer, wolves, foxes, squirrels, bats, rabbits, coati—Mexico.

101 specimens toads, lizards, fishes, snakes—Mexico.

131 specimens skunks, opossums, fox, rabbits, bats, coati, mice, rats—Mexico.

117 specimens mice, rabbits, weasel, gophers, rats—Texas and Mexico.

118 specimens lizards, snakes, toads—Mexico.

6 specimens fishes—Durango, Mexico.

139 specimens squirrels, rabbits, gophers, rats, chipmunks, mice, weasel, opossum, deer, peccaries, coyote, foxes, wildcats, skunks, and small rodents—Mexico.

Collected by O. E. Lansing, Jr.:

2 shells—Dry Tortugas, Fla.

Collected by S. E. Meek:

520 specimens (57 species) sea-shells—Mexico.

2 garter snakes—Palos Springs, Ill.

2 water-bugs—Mexico.

Purchases:

5 ground squirrels, 3 wood-rats, 1 mouse.

10 marten skins—Alaska.

1 cross fox skin—Newfoundland.

11 skunks, 2 muskrats—Green Bay, Wis.

20 specimens grasshoppers—Nevada.

1 rabbit—Minnesota.

5 musk ox skins—Arctic America.

112 specimens (9 species) land-shells—Missouri.

513 specimens (38 species) land and fresh-water shells—Maine.

1 wolf skin—Mankato, Minn.

87 specimens rabbits, bats, squirrels, rats, wild pigs, ant-eaters, foxes, grisons, monkeys, etc.—Colombia, S. A.

35 specimens grasshoppers—various localities.

19 specimens butterflies—Nicaragua.

227 specimens flies—Nevada, California, and Nicaragua.

503 specimens beetles—Colorado, Nevada, California, and Nicaragua.

1 mountain sheep skin.

5,973 specimens butterflies and moths—various localities.

1 blue wolf, 2 cross foxes, 5 sable—Newfoundland and mouth of McKinzie River.

1 silver fox skin—Alaska.

- GALETTI, G., Chicago.
 1 pig-tailed baboon—Sumatra.
 1 drill—West Africa.
 1 baboon.
- GARDNER, JAMES P., Chicago.
 1 sand cricket—Coronado, Calif.
- GERHARD, W. J., Chicago.
 1 snake.
 1 house snake—Beverly Hills, Ill.
 1 striped lizard, 1 cricket frog—Clark, Ind.
- GILL, G. M., Racine, Wis.
 1 parasite—Racine, Wis.
- HYMAN, SAMUEL, Chicago.
 1 sea-horse (fish) —Mediterranean.
- JOHNSON, F. A., AND E. M. ASHCRAFT, Chicago.
 4 grizzly bears.
 1 brown bear.
- KENKEL, L. V., Chicago.
 10 specimens wasp, beetles, grasshoppers, cockroach—Illinois and Michigan.
- KENNEDY, VERNON SHAW, Chicago.
 6 caribou skins and skulls—Newfoundland.
- LARKIN, T. J., Chicago.
 1 parasite—Chicago.
- LUTZ, F. E., Chicago.
 4 mice.
- MANN, WILLIAM, Staunton, Va.
 17 snakes—Chicago.
 2 bugs, 1 fly—River Forest, Ill.
 10 beetles—Chicago.
- McCREA, W. S., Chicago.
 1 alligator garpike—Arkansas.
- MILLSPAUGH, CHAS. H., Chicago.
 2 beetles—Chicago.
- MUCKERMANN, REV. H. J., Prairie du Chien, Wis.
 44 beetles—Wisconsin.
- NEWCOMBE, CHAS. F., Victoria, B. C.
 7 mammal skulls—Queen Charlotte Islands, B. C.
- NICHOLS, H. W., Chicago.
 6 moths, 3 beetles—Chicago.
- PRAY, L. L., Chicago.
 1 beetle—Chicago.
- ROEHRIG, DR. G. E., Chicago.
 1 snake—Kentucky.
- ROMANO, JOSEPH, Chicago.
 1 dragonfly, 1 moth—Chicago.
- SANDERS, J. G., Columbus, Ohio.
 10 species scale insects—Ohio.
- SCHUBERT, A., Chicago.
 3 muskrat skins.
- STEPHENSON, F. M., Menominee, Wis.
 1 deer—Vera Cruz, Mexico.
- TAVERNIER, P. A., Chicago.
 1 beetle—Muskoka Lake, Ontario.
- TIEMAN, B., Chicago.
 1 fly—Chicago.

- TOMPSON, A. J., Chicago.
 1 bat—Chicago.
- UNITED STATES FISH COMMISSION, Washington, D. C.
 1 specimen fish—Hawaiian Islands (exchange).
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
 34 specimens fishes—various localities (exchange).
 3 specimens fishes—Tepic, Mexico (loan).
- WILLIAMSON, E. B., Bluffton, Ind.
 6 specimens moles, squirrels, flying squirrels, opossum.
- WOLCOTT, A. B., Chicago.
 1 grasshopper, 2 scorpion flies—Bowmanville, Ill.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Made by C. H. Carpenter:

- 3 negatives of views in Japanese Garden—World's Fair, St. Louis, Mo.
 5 lantern slides of views in Japanese Garden—World's Fair, St. Louis.

Mo.

- 3 lantern slides Jamaica, the Princess of the Antilles.
 28 lantern slides "Wild Flowers" of the Chicago Basin.
 5,280 negatives of Indians and Foreign Aliens—World's Fair, St.

Louis, Mo.

Made by C. F. Millspaugh:

- 2 negatives of views in Japanese Garden—World's Fair, St. Louis, Mo.
 72 negatives of landscapes, etc.—Bahama Islands.

Made by C. L. Owen:

- 297 negatives of Arizona Indians, etc.

Made by S. C. Simms:

- 36 negatives of Cree, Chippeway, and Blackfoot Indians—Canada and
 Minnesota.

Purchases:

- 35 lantern slides, Wild Flowers of Minnesota.
 2 lantern slides, Wild Flowers of the Chicago Basin.
 11 photographs of buffalo—Montana.

THE LIBRARY.

(ACCESSIONS ARE BY EXCHANGE UNLESS OTHERWISE DESIGNATED.)

BOOKS, PAMPHLETS, AND SERIALS.

- ACIREALE. REALE ACCADEMIA DI SCIENZE, Acireale, Italy.
 Rendiconto e memoire, ser. 3, v. 2, 1903.
- ADAMS, CHAS. C., Ann Arbor, Mich.
 1 pamphlet.
- ALABAMA AGRICULTURAL EXPERIMENT STATION, Auburn, Ala.
 Bulletin, current numbers.
- ALBANY MUSEUM, Grahamstown, Cape Colony.
 Records of the Albany Museum, v. 1, pt. 2.
- ALFARO, ANASTASIO, San Jose, Costa Rica.
 15 reprints.
- AMBROSETTI, JUAN B., Buenos Ayres, Argentina.
 4 pamphlets.

- AMERICAN ACADEMY OF ARTS AND SCIENCES, Boston, Mass.
Memoirs, v. 13, no. 1.
Proceedings, current numbers.
- AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass.
Proceedings, v. 16, pt. 1.
- AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,
Washington, D. C.
Proceedings, 52d meeting (gift).
- AMERICAN CHEMICAL JOURNAL PUBLISHING COMPANY, Baltimore,
Md.
Journal, current numbers.
- AMERICAN FOLK-LORE SOCIETY, Cambridge, Mass.
Journal, current numbers.
- AMERICAN INSTITUTE OF HOMŒOPATHY, New York City.
Transactions, 1903.
- AMERICAN INVENTOR PUBLISHING COMPANY, New York City.
American inventor, current numbers.
- AMERICAN JOURNAL OF PHARMACY, Philadelphia, Pa.
Journal, current numbers (gift).
- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
Annual report, 1903.
Bulletin, v. 17, nos. 1-2; v. 18, no. 2; v. 19.
Memoirs, anthropology, v. 1, pt. 8; v. 3, pts. 2-4; v. 6, pt. 1.
- AMERICAN NUMISMATIC AND ARCHEOLOGICAL SOCIETY, New York
City.
Proceedings and papers, 46th annual meeting.
- AMERICAN ORIENTAL SOCIETY, New Haven, Conn.
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- HOLM, H. T., Brookland, D. C.
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- HOPKINS, T. C., Syracuse, N. Y.
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- HOVEY, EDMUND O., New York City.
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Vincent.
3 reprints.



FRUIT OF THE IVORY NUT PALM.

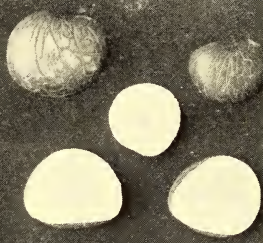
(Fruit dissected.)
 The fruit of this tree bears a resemblance to that of the coconut and is of the same size. It is covered with a thick, scaly, fibrous covering, which is the source of the vegetable ivory. The fruit is shown here in a longitudinal section, showing the internal structure.



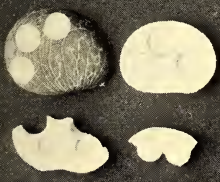
2 IVORY NUTS.
 These nuts (of the Ivory Nut Palm) are generally found in the market in two forms: one in which the outer covering of vegetable ivory has been removed, and the other in which it has been left on. The nuts are shown here in a longitudinal section, showing the internal structure.



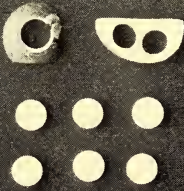
3 HUSKED IVORY NUTS.
 These nuts have had the outer covering of vegetable ivory removed, and are shown here in a longitudinal section, showing the internal structure.



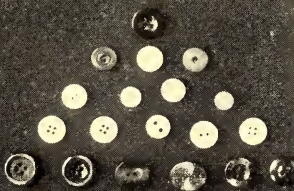
4 VEGETABLE IVORY.
 The Ivory Nut is cut into sections of the proper thickness for the cutting out of buttons. These are shown here in a longitudinal section, showing the internal structure.



5 BUTTON MATRICES.
 Sections of Ivory Nuts showing the effect of the expansion of the nut and the firmness of the material in the process of cutting out the buttons.



6 MATRICES AND BUTTON BLANKS.
 Showing the completed nut button blanks and the matrices and illustrating the effect of the expansion of the nut in the process of cutting out the buttons.



7 IVORY NUT BUTTONS.
 Finished buttons made from vegetable ivory. These buttons are made from the vegetable ivory in the same manner as the buttons made from the substance of the Ivory Nut.

- HOYT, F. W., New York City.
Stone, current numbers.
- HRDLICKA, ALES, Washington, D. C.,
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- IDAHO AGRICULTURAL EXPERIMENT STATION, Moscow, Idaho.
Annual report, 1903.
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- IDAHO. INSPECTOR OF MINES, Boise, Idaho.
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The plankton of the Illinois river, 1849-99, pt. 1.
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Annual report, 12th-16th.
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- INTERNATIONAL BUREAU OF THE AMERICAN REPUBLICS, Wash-
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- JAPAN. IMPERIAL GEOLOGICAL SURVEY, Tokyo, Japan.
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- JOHANNSEN, O. A., Ithaca, New York.
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- JOHNS HOPKINS UNIVERSITY, Baltimore, Md.
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Appendix, 1904, nos. 1-3.
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- KUNTZE, OTTO, San Remo, Italy.
Generum phanerogamarum (gift).
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- LA FAYETTE COLLEGE, Easton, Pa.
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- McCLURG AND COMPANY, Chicago, Ill.
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- NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION, Raleigh, N. C.
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ARTICLES OF INCORPORATION.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSSEN, *Secretary of State*:

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, Therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the great Seal of State. Done at the city of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSSEN,
Secretary of State.

[SEAL.]

TO HON. WILLIAM H. HINRICHSSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purpose of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archæology, Science, and History.

3. The management of the aforesaid Museum shall be vested in a board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black, and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaas, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, Geo. M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS, }
COOK COUNTY. } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL.]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held on the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS.

(JANUARY 29, 1900.)

ARTICLE I.

MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons, and Honorary Members.

SEC. 2. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of annual membership.

This said annual membership shall entitle the member to:

First.—Free admittance for himself and family to the Museum on any day.

Second.—Ten tickets every year admitting the bearer to the Museum on pay days.

Third.—A copy of every publication of the Museum sold at the entrance door, and to the Annual Reports.

Fourth.—Invitations to all receptions, lectures, or other entertainments which may be given at the Museum.

SEC. 3. The Corporate Members shall consist of the persons named in the articles of association, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of the association shall within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members, shall, within ninety days of their respective election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. The annual dues of Corporate Members shall be five dollars (\$5.00) after the first year of membership, and no one shall exercise the rights of a Corporate Member until his dues are paid; and a delinquency of six months in the payment of annual dues shall be ground for forfeiture of corporate membership. Corporate Members becoming Life Members, Patrons, or Honorary Members shall be exempt from dues.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars at any one time shall, upon the unanimous vote of the Trustees, become a Life Member. Life Members shall be exempt from all dues.

SEC. 5. Patrons shall be chosen by the Board of Trustees, upon recom-

mendation of the Executive Committee, from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SEC. 6. Honorary Members shall be chosen from among persons who have rendered eminent service to science, art, or mechanics. They shall be chosen by a vote of the Trustees, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues. In commemoration of the 14th day of October, Honorary Members shall not be more than fourteen in number at any one time.

SEC. 7. All members of whatever class shall be eligible to appointment upon Committees other than the Executive Committee.

ARTICLE II.

OFFICERS.

SECTION 1. The respective members of the Board of Trustees now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board of Trustees at any regular meeting.

SEC. 2. The other officers shall be President, two Vice-Presidents, Secretary, and Treasurer, and an Executive Committee of four persons, who shall be chosen by ballot by the Board of Trustees from their own number as early as practicable after the annual meeting in each year. The President shall be *ex-officio* a member of the Executive Committee and Chairman thereof, in addition to the other four members. The Secretary and Treasurer may, or may not, be the same person, and the Secretary may, or may not, be a Corporate Member.

Any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The President shall appoint from among the Trustees a Committee on Finance, a Committee on Property, an Auditing Committee, and a Committee on Buildings and Grounds, who shall serve during the pleasure of the Board.

SEC. 4. The officers shall perform such duties as ordinarily appertain to their respective offices, and such other duties as the Board of Trustees may from time to time devolve upon them. The Treasurer shall give bond in such amount and with such surety as shall be approved by the Executive Committee, and shall disburse the funds of the Museum only in accordance with the directions of the Executive Committee, upon the signature and counter-signature of such officers as the Executive Committee shall empower thereto.

SEC. 5. The Executive Committee shall have full control of the affairs of the Museum, under the general supervision of the Board of Trustees.

ARTICLE III.

MEETINGS.

SECTION 1. In commemoration of the discovery of America by Christopher Columbus, the annual meeting of the Corporate Members shall be held on the 14th day of October in each year, except when that day falls on a Sunday, and then upon the Monday following. At such meeting the Corporate

Members shall transact such business as may properly come before the meeting. Special meetings of the Corporate Members shall be called at any time by the Secretary upon written request of twenty Corporate Members. In such case, thirty days' notice by mail shall be given to Corporate Members of the time, place, and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the 14th day of October, except when that day falls on Sunday, and then upon the Monday following, and upon the last Monday of January, April, and July of each year. Special meetings may be called by the President at any time upon reasonable notice by mail, and shall be called upon the written request of three Trustees. Five Trustees shall constitute a quorum, but meetings may be adjourned by any less number from day to day or to a day fixed.

ARTICLE IV.

AMENDMENTS.

SECTION 1. These By-Laws may be amended at any regular meeting of the Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at the last regular meeting preceding or shall be recommended by the Executive Committee.

HONORARY MEMBERS.

EDWARD E. AYER
HARLOW N. HIGINBOTHAM

CHARLES B. CORY
STANLEY McCORMICK

DECEASED.

MARY D. STURGES

PATRONS.

ALLISON V. ARMOUR
WILLIAM I. BUCHANAN

FREDERICK W. PUTNAM
FREDERICK J. V. SKIFF
WILLARD A. SMITH

CORPORATE MEMBERS.

ADAMS, GEORGE E.	HIGINBOTHAM, H. N.
ALDIS, OWEN F.	HUTCHINSON, CHARLES L.
ARMOUR, ALLISON V.	JONES, ARTHUR B.
AYER, EDWARD E.	KEITH, E. G.
BARTLETT, A. C.	KOHLSAAT, HERMAN H.
BLACK, JOHN C.	LATHROP, BRYAN
BLAIR, WATSON F.	McCAGG, E. B.
BLATCHFORD, ELIPHALET W.	McCORMICK, CYRUS H.
BUCHANAN, W. I.	MANIERRE, GEORGE
BUCKINGHAM, EBENEZER	MITCHELL, JOHN J.
BURNHAM, DANIEL H.	PATTERSON, ROBERT W.
BUTLER, EDWARD B.	PECK, FERD. W.
CHALMERS, W. J.	PUTNAM, FREDERICK W.
CHATFIELD-TAYLOR, H. C.	REAM, NORMAN B.
CLARK, JOHN M.	RYERSON, MARTIN A.
CURTIS, WILLIAM E.	SCHNEIDER, GEORGE
EASTMAN, SIDNEY C.	SKIFF, F. J. V.
ELLSWORTH, JAMES W.	SMITH, BYRON L.
GAGE, LYMAN J.	SMITH, WILLARD A.
GETTY, HENRY H.	SPRAGUE, A. A.
GUNSAULUS, FRANK W.	STOCKTON, JOSEPH
GUNTHER, C. F.	STONE, MELVILLE E.
HARPER, WILLIAM R.	WALKER, EDWIN
HATCH, AZEL F.	WALSH, JOHN R.
HEAD, FRANKLIN H.	

DECEASED.

ARMOUR, PHILIP D.	LEITER, L. Z.
BAKER, WILLIAM T.	McCLURG, A. C.
BISSEL, GEORGE F.	McNALLY, ANDREW
CRAWFORD, ANDREW	PEARCE, J. IRVING
DAVIS, GEORGE R.	PETERSON, ANDREW
FITZSIMONS, CHARLES	PULLMAN, GEORGE M.
HALE, WILLIAM E.	SCOTT, JAMES W.
JACKSON, HUNTINGTON W.	WALLER, R. A.
	WILLIAMS, NORMAN

LIFE MEMBERS.

- ADAMS, GEORGE E.
ALDIS, OWEN F.
- BARRETT, MRS. A. D.
BARRETT, ROBERT L.
BARRETT, S. E.
BARTLETT, A. C.
BLAIR, CHAUNCEY J.
BLAIR, WATSON F.
BOOTH, W. VERNON
BURNHAM, D. H.
BUTLER, EDWARD B.
- CARTER, JAMES S.
CARTON, L. A.
CHALMERS, WILLIAM J.
COOPER, FRANK H.
CRANE, R. T.
- DEERING, CHARLES
DRAKE, TRACY C.
- FARWELL, WALTER
FAY, C. N.
FIELD, STANLEY
FULLER, WILLIAM A.
- GARTZ, A. F.
GRISCOM, CLEMENT A.
GROMMES, JOHN B.
- HAMILL, ERNEST A.
HEALY, P. J.
HILL, LOUIS W.
HUGHITT, MARVIN
HUTCHINSON, C. L.
- INGALLS, M. E. [PORTER
ISHAM, MRS. KATHERINE
- JOHNSON, M. D., FRANK S.
JOHNSON, MRS. ELIZABETH
JONES, ARTHUR B. [AYER
- KEITH, ELBRIDGE G.
KIMBALL, W. W.
KING, FRANCIS
- KING, JAMES C.
KIRK, WALTER RADCLIFFE
- LAWSON, VICTOR F.
- MCCORMICK, MRS.
MCCORMICK, CYRUS H.
MCCORMICK, HAROLD F.
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MITCHELL, J. J.
MURDOCH, THOMAS
- NEWELL, A. B.
- ORR, ROBERT M.
- PEARSONS, D. K.
PIKE, EUGENE S.
PORTER, GEORGE T.
PORTER, H. H.
PORTER, H. H., JR.
- REAM, MRS. CAROLINE P.
REAM, NORMAN B.
REVELL, ALEX. H.
RUSSELL, EDMUND A.
RYERSON, MRS. CARRIE H.
RYERSON, MARTIN A.
- SCHLESINGER, LEOPOLD
SCHNEIDER, GEORGE
SCOTT, ROBERT S.
SEAVURNS, GEORGE A.
SINGER, C. G.
SMITH, BYRON L.
SMITH, ORSON
SPRAGUE, A. A.
SPRAGUE, OTHO S. A.
STURGES, GEORGE
- THORNE, GEORGE R.
TREE, LAMBERT
- WELLING, JOHN C.
WELLS, M. D.
WILLARD, ALONZO J.
WOLFF, LUDWIG

ANNUAL MEMBERS.

- ADAMS, CYRUS H.
 ADAMS, MILWARD
 ALLERTON, ROBERT H.
 ALLERTON, MRS. S. W.
 AMBERG, WILLIAM A.
 ARMOUR, GEORGE A.
 BAILEY, EDWARD P.
 BAKER, SAMUEL
 BANGA, DR. HENRY
 BARNES, CHARLES J.
 BARRELL, JAMES
 BATCHELLER, W.
 BEAUVAIS, E. A.
 BECKER, A. G.
 BELDEN, J. S.
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 BROOKS, JAMES C.
 BROWN, GEORGE F.
 BROWN, WILLIAM L.
 BURLEY, CLARENCE A.
 BURLEY, FRANK E.
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 CARPENTER, MYRON J.
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 COMSTOCK, WILLIAM C.
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 CRANE, CHARLES R.
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 DAY, CHAPIN A.
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 DEERING, WILLIAM
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 DEMMLER, K.
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 DUNHAM, MISS M. V.
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 GIFFORD, I. CUSHMAN
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 GRAHAM, E. R.

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GREY, CHARLES F.
GREY, WILLIAM L.
GUION, GEORGE MURRAY
GURLEY, W. W.

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HARRIS, JOHN F.
HARRIS, N. W.
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HOLDOM, JESSE
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HOSKINS, WILLIAM
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JEFFERY, THOMAS B.
JENKINS, GEORGE H.
JONES, J. S.

KEEFER, LOUIS
KEENE, JOSEPH
KEEP, ALBERT
KEITH, W. SCOTT
KELLEY, WILLIAM E.
KENT, WILLIAM
KIMBALL, EUGENE S.
KIMBALL, MRS. MARK
KOEHLER, THOMAS N.

LAFLIN, ALBERT S.
LAFLIN, GEORGE H.
LAMB, FRANK H.
LAWSON, VICTOR F.
LAY, A. TRACY
LEE, WALTER H.
LEFENS, THIES J.
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LOEWENTHAL, B.

LOGAN, F. G.
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LOWDEN, FRANK O.
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McCREA, W. S.
McGUIRE, REV. H.
McLENNAN, J. A.
McWILLIAMS, LAFAYETTE
MacFARLAND, HENRY J.
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MANSURE, E. L.
MARKWALD, LIEUT. ERNST
MAY, FRANK E.
MAYER, DAVID
MAYER, LEVY
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MEYER, MRS. M. A.
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MILLER, JOHN S.
MILLER, THOMAS
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MOORE, N. G.
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MORRIS, IRA
MORRIS, NELSON
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MULLIKEN, CLARENCE H.

NATHAN, ADOLPH
NOLAN, JOHN H.
NORTON, O. W.
NOYES, LA VERNE W.

OEHNE, THEODORE
ORB, JOHN A.
ORTSEIFEN, ADAM
OSBORN, HENRY A.

PALMER, MILTON J.
PALMER, PERCIVAL B.
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PATTERSON, W. R.
PEARSON, EUGENE H.
PECK, CLARENCE I.
PETERS, HOMER H.
PETERSEN, GEO. L.
PETERSON, WM. A.

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PORTER, WASHINGTON

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RAYNER, JAMES B.
REHM, JACOB
REID, W. H.
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ROSENTHAL, MRS. OSCAR
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RUNNELLS, J. S.
RYERSON, MRS. MARTIN

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SCHMIDT, DR. O. L.
SCHMITT, ANTHONY
SCHWARTZ, G. A.
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SEIPP, MRS. C.
SEIPP, W. C.
SELFRIDGE, HARRY G.
SELZ, MORRIS
SHEDD, JOHN G.
SHIPMAN, DANIEL B.
SHORTALL, JOHN G.
SKINNER, THE MISSES
SMITH, F. B.
SNOW, MISS HELEN E.
SOPER, JAMES P.
SOUTHWELL, H. E.

SPENCE, MRS. ELIZABETH E.
SPOOR, J. A.
STEELE, HENRY B.
STOCKTON, JOHN T.
STUART, ROBERT

TEMPLETON, THOMAS
TILTON, MRS. L. J.
TOBEY, FRANK B.
TRIPP, C. E.
TRUDE, A. S.
TURNER, E. A.

UIHLEIN, EDWARD G.
UNZICKER, OTTO
VIERLING, ROBERT

WACKER, CHARLES H.
WALKER, GEORGE C.
WALKER, JAMES R.
WALKER, WILLIAM B.
WALLER, EDWARD C.
WARNER, EZRA J.
WEBSTER, GEORGE H.
WHITE, A. STAMFORD
WHITEHEAD, W. M.
WICKES, T. H.
WILSON, E. C.
WILSON, M. H.
WINK, HENRY
WOLF, FRED. W.
WOOD, S. E.
WOODCOCK, LINDSAY T.
WOOSTER, CLARENCE K.

DECEASED.

LOWTHER, THOMAS D.

PERRY, LEWIS S.

WILLING, MRS. HENRY J.



MAP ILLUSTRATING IMPORTANT ZINC MINING DISTRICTS OF THE UNITED STATES. DEPARTMENT OF GEOLOGY.



MARTIN A. RYERSON, VICE-PRESIDENT.

FIELD COLUMBIAN MUSEUM

PUBLICATION 107

REPORT SERIES

VOL. 11, No. 5

ANNUAL REPORT OF THE
DIRECTOR

TO THE
BOARD OF TRUSTEES

FOR THE YEAR 1904-1905



CHICAGO, U. S. A.

October, 1905

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THE BOARD OF TRUSTEES.

GEORGE E. ADAMS.
OWEN F. ALDIS.
EDWARD E. AYER.
WATSON F. BLAIR.
WILLIAM J. CHALMERS.
MARSHALL FIELD, JR.
HARLOW N. HIGINBOTHAM.

ARTHUR B. JONES.
GEORGE MANIERRE.
CYRUS H. McCORMICK.
NORMAN B. REAM.
MARTIN A. RYERSON.
FREDERICK J. V. SKIFF.
EDWIN WALKER.

DECEASED.

NORMAN WILLIAMS.

GEORGE R. DAVIS.
HUNTINGTON W. JACKSON.

OFFICERS.

HARLOW N. HIGINBOTHAM, *President.*

MARTIN A. RYERSON, *First Vice-President.*

MARSHALL FIELD, JR., *Second Vice-President.*

HARLOW N. HIGINBOTHAM, *Chairman Executive Committee*

GEORGE MANIERRE, *Secretary.*

BYRON L. SMITH, *Treasurer.*

COMMITTEES.

EXECUTIVE COMMITTEE.

HARLOW N. HIGINBOTHAM, *Chairman Ex Officio.*

EDWARD E. AYER.

NORMAN B. REAM.

OWEN F. ALDIS.

MARTIN A. RYERSON.

FINANCE COMMITTEE.

MARTIN A. RYERSON.

WATSON F. BLAIR.

MARSHALL FIELD, JR.

COMMITTEE ON BUILDING.

HARLOW N. HIGINBOTHAM.

GEORGE E. ADAMS.

WILLIAM J. CHALMERS.

CYRUS H. McCORMICK.

OWEN F. ALDIS.

AUDITING COMMITTEE.

GEORGE MANIERRE.

ARTHUR B. JONES.

STAFF OF THE MUSEUM.

DIRECTOR.

FREDERICK J. V. SKIFF.

DEPARTMENT OF ANTHROPOLOGY.

GEORGE A. DORSEY, *Curator*.S. C. SIMMS, *Assistant Curator Division of Ethnology*.CHARLES L. OWEN, *Assistant Curator Division of Archæology*.

DEPARTMENT OF BOTANY.

CHARLES F. MILLSPAUGH, *Curator*.JESSE M. GREENMAN, *Assistant Curator*.

DEPARTMENT OF GEOLOGY.

OLIVER C. FARRINGTON, *Curator*. H. W. NICHOLS, *Assistant Curator*.ELMER S. RIGGS, *Assistant Curator Paleontology*.

DEPARTMENT OF ZOOLOGY, EXCEPT ORNITHOLOGY.

D. G. ELLIOT, *Curator*.SETH E. MEEK, *Assistant Curator*.WILLIAM J. GERHARD, *Assistant Curator Division of Entomology*.

DEPARTMENT OF ORNITHOLOGY.

CHARLES B. CORY, *Curator*.N. DEARBORN, *Assistant Curator*.

RECORDER.

D. C. DAVIES.

THE LIBRARY.

ELSIE LIPPINCOTT, *Librarian*.

TAXIDERMIST-IN-CHIEF.

CARL E. AKELEY.

ANNUAL REPORT OF THE DIRECTOR

1904-1905

To the Trustees of the Field Columbian Museum :

I have the honor to present a report of the operations of the Museum for the year ending September 30, 1905.

In some respects the year just closed has been the most important and interesting in the history of the institution. The consideration by the Staff of the plans of the new building ; the acquisition of a large amount of valuable material from the Louisiana Purchase Exposition, the expeditions and the several important collections purchased have all been factors in making the period covered by the last twelve months noteworthy. The building has been inspected for safety by experts appointed by the architects and repaired and strengthened in accordance with their recommendations. The exterior of the building has been replastered and will be repainted early in the Spring.

The Director attended the International Congress on Economics and Expansion at Mons, Belgium, in September. The Convention had a distinct ethnological and sociological tendency, and the proceedings in the more important sections were largely dominated by scientific men who gave a scholarly tone to the sessions and placed the records of the Congress on an academic basis. The most important action of the Congress as relates to the scope of the Field Institution, was the adoption of a Memorial for the formation of a permanent organization to be termed the International Bureau of Ethnography.

MAINTENANCE.—The cost of maintenance for the year 1904-1905 was \$122,880, an increase over the previous year of approximately \$13,000. The excess was occasioned by an increase in the cost of repairs and alterations to the building of \$3,500; additions to the general staff accounting for an increase in salaries of \$4,000, and \$5,000 due to extraordinary expenses in connection with the installation of new material obtained chiefly from the Louisiana Purchase Exposition. The total amount expended as shown by the financial

statement was \$208,467. The difference, \$86,000, between this amount and the cost of maintenance is accounted for by special appropriations, for: cases, \$10,000; expeditions, \$11,000; publications, \$5,500; special exterior repairs, \$5,500; and collections purchased, \$50,000. The latter item exceeds any amount previously expended for new material in any one year with the exception of the first year of the Museum's existence.

STAFF OF THE MUSEUM.—The Staff has been augmented by the appointment of Dr. Jesse M. Greenman, formerly of the Gray Herbarium, as Assistant Curator of the Department of Botany, and by the appointment of Dr. N. Dearborn as Assistant Curator in charge of Ornithology.

LECTURE COURSES.—Both the Autumn and the Spring Lecture Courses were given in Fullerton Memorial Hall by special arrangement with the trustees of the Art Institute, and it is encouraging to state that the capacity of the hall was taxed at almost every lecture. Opportunity is here taken to thank the gentlemen who very generously coöperated in this method of public instruction.

Following is the Twenty-first Lecture Course, delivered during the months of October and November, 1904, with the subjects and lecturers:

- Oct. 1. — "Wild Flowers of the Chicago Basin."
Dr. C. F. Millspaugh, Curator of Botany.
- Oct. 8. — "Japan — Land of Lacquer and Bamboo."
Dr. C. F. Millspaugh, Curator of Botany.
- Oct. 15. — "Variation of Birds."
Dr. N. Dearborn, Department of Ornithology.
- Oct. 22. — "Crystals."
Dr. O. C. Farrington, Curator of Geology.
- Oct. 29. — "Wyandotte and Marengo Caves."
Dr. O. C. Farrington, Curator of Geology.
- Nov. 5. — "A Naturalist in Africa — Field Columbian Museum Expedition."
Prof. D. G. Elliot, F. R. S. E., Curator of Zoölogy.
- Nov. 12. — "Cats and the Lands they Inhabit."
Prof. D. G. Elliot, F. R. S. E., Curator of Zoölogy.

- Nov. 19. — "The Decorative Art of the North American Indians — Part I."
Dr. G. A. Dorsey, Curator of Anthropology.
- Nov. 26. — "The Decorative Art of the North American Indians — Part II."
Dr. G. A. Dorsey, Curator of Anthropology.

The following is the Twenty-second Lecture Course, delivered in March and April, 1905, with the subjects and lecturers:

- March 4. — "The Explanation of Indian Ceremonies."
Dr. G. A. Dorsey, Curator of Anthropology.
- March 11. — "Giant Reptiles of North America."
Mr. E. S. Riggs, Assistant Curator, Division of Paleontology.
- March 18. — "Extinct Mammals of North America."
Mr. E. S. Riggs, Assistant Curator, Division of Paleontology.
- March 25. — "Aims and Methods of Bird Study."
Dr. N. Dearborn, Assistant Curator, Department of Ornithology.
- April 1. — "Hawaiian Cruise of the Albatross."
Prof. C. C. Nutting, Professor of Zoölogy, University of Iowa.
- April 8. — "The Fertilization of Flowers by Insects."
Dr. F. H. Snow, Professor of Systematic Entomology, University of Kansas.
- April 15. — "Geographic Factors Involved in the Rise of Chicago."
Dr. J. Paul Goode, Assistant Professor of Geography, University of Chicago.
- April 22. — "How Rivers and Lakes became Stocked with Fishes."
Dr. S. E. Meek, Assistant Curator of Zoölogy.
- April 29. — "The Basketry of California."
Dr. J. W. Hudson, Department of Anthropology.

PUBLICATIONS.—The publications of the Museum have appeared as usual from time to time as opportunity presented itself. The list includes seven numbers of the established series, details of which follow:

- Pub. 96. — Anthropological Series, Vol. 8. "The Traditions of the Hopi." By H. R. Voth. 319 pp., no illustrations, edition 1,500.
- Pub. 97. — Anthropological Series, Vol. 4, No. 2. "Oraibi Natal Customs and Ceremonies." By H. R. Voth. 14 pp., 8 illustrations (half-tones), edition 1,500.
- Pub. 98. — Report Series, Vol. II, No. 4. "Annual Report of the Director to the Board of Trustees, for the Year 1903-1904." 80 pp., 12 illustrations (half-tones), edition 2,500.
- Pub. 99. — Anthropological Series, Vol. 9, No. 1. "The Cheyenne." Part I. "The Ceremonial Organization." By George A. Dorsey. 55 pp., 23 illustrations (11 colored plates and 12 zinc etchings), edition 1,500.
- Pub. 100. — Anthropological Series, Vol. VI, No. 3. "Hopi Proper Names." By H. R. Voth. 47 pp., no illustrations, edition 1,500.
- Pub. 101. — Geological Series, Vol. II, No. 1. "The Rodeo Meteorite." By O. C. Farrington. 13 pp., 4 illustrations (half-tones), edition 1,500.
- Pub. 103. — Anthropological Series, Vol. IX, No. 2. "The Cheyenne." Part II. "The Sun Dance." By George A. Dorsey. 131 pp. 159 illustrations (13 colored plates, 136 half tones, and 10 zinc etchings.)

The Museum Exchange List now numbers 1,123 names, of which 510 are in foreign countries and 613 in the United States. Early in the year the list was carefully revised and many changes and additions made.

The following table shows the number of exchanges with each of the foreign countries:

Canada,	29	Greece,	2
Central America,	6	The Netherlands,	10
Cuba and the West Indies,	5	Italy,	28
Mexico,	16	Malta,	1
Philippine Islands,	1	Norway,	7
Yucatan,	2	Portugal,	5
Argentine Republic,	10	Roumania,	1
Brazil,	7	Russia,	14
British Guiana,	1	Spain,	5

Chili,	1	Sweden,	10
Peru,	2	Switzerland,	11
U. S. Columbia,	2	India,	11
Uruguay,	1	Japan,	6
Austria,	23	Egypt,	1
Belgium,	12	Liberia,	1
Denmark,	4	South Africa,	8
France,	42	Australia,	22
Germany,	104	Oceania,	9
Great Britain,	83	Tasmania,	2

The following table shows the number of exchanges receiving the different publications:

General, everything issued by the Museum,	161
Anthropological,	85
Botanical,	48
Geological,	78
Orinthological,	9
Report,	6
Anthropological and Geological,	5
Geological and Zoölogical,	19
Zoölogical,	39
Botanical and Geological,	15
Botanical, Geological, and Zoölogical,	27
Miscellaneous,	18

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The publications are distributed to the different states as follows:

Alabama,	2	Missouri,	13
Arizona,	1	Montana,	3
Arkansas,	1	Nebraska,	7
California,	29	Nevada,	1
Colorado,	12	New Hampshire,	5
Connecticut,	21	New Jersey,	16
Delaware,	2	New York,	95
District of Columbia,	84	North Carolina,	6
Florida,	1	New Mexico,	1
Georgia,	1	Ohio,	24
Illinois,	58	Oregon,	1
Indiana,	12	Pennsylvania,	35
Iowa,	12	Rhode Island,	6
Kansas,	7	South Carolina,	1
Kentucky,	2	South Dakota,	2
Louisiana,	4	Tennessee,	2
Maine,	7	Texas,	2
Maryland,	12	Vermont,	3
Massachusetts,	69	Virginia,	3

Michigan,	12	Washington,	3
Minnesota,	11	West Virginia,	3
Mississippi,	3	Wisconsin,	16
		Wyoming,	2

The following table shows the number of exchanges receiving the different publications:

DOMESTIC.

General, everything issued by the Museum,	167
Anthropological,	82
Botanical,	85
Geological,	114
Ornithological,	9
Report,	35
Zoölogical,	29
Geological and Zoölogical,	18
Geological and Anthropological,	7
Botanical, Geological, Ornithological, and Zoölogical,	42
Botanical and Zoölogical,	11
Botanical and Geological,	3
Miscellaneous,	11

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It would seem pertinent to mention that the service of the Bureau of International Exchange connected with the Smithsonian Institution in distributing the publications to foreign countries is highly satisfactory, and grateful acknowledgment is tendered that Institution for providing such excellent facilities.

A special report of the work done at the St. Louis Fair and a list of the material obtained was published for private circulation only.

LIBRARY. — The number of books and pamphlets in the library is now 36,572, which represent an addition during the year of 1,375 books and 1,032 pamphlets, distributed as follows:

	Books.	Pamphlets.
General Library,	12,518	16,563
Department of Anthropology,	600	85
Department of Botany,	740	319
Department of Geology,	1,998	2,984
Department of Ornithology,	397	.....
Department of Zoölogy,	361	7

The additions during the year were 549 titles acquired as follows: By purchase 273 books and 63 pamphlets, and the remainder by gifts and exchange. The Library receives 160 periodicals, 77 of

which are purchased. A number of valuable books have been purchased during the year, among them the following: — Thwaite's *Early Western Travels, 1748-1846* (31 vs.). Blair and Richardson, *The Philippine Islands, 1493-1898* (55 vs.). Cavanilles, *Icones et Descriptiones Plantarum, 1791-1801* (6 vs.). Humboldt, von, *Nova Genera et Species Plantarum, 1815-1825* (6 vs.). It was ascertained during the year that there were a number of institutions, both at home and abroad, that were publishing literature that would be of great assistance to the staff and students of the Museum. Invitations to the number of 330 were extended for an exchange of publications and it is gratifying to report that very hearty acceptances have been received from a large proportion of those addressed. Several of these societies have sent, also, as complete sets of their back publications as were available; among them are the Saint Petersburg Imperial Academy of Sciences, which sent its *Memoirs* dating back to 1830, and, while not complete, are most valuable; The Société Belge de Géologie, de Paléontologie, Bruxelles, 8 volumes; Royal Botanical Garden, Ceylon, 3 volumes; Biblioteca Nacional, Chile, 21 volumes; Royal Zoölogical Society, Dublin, 15 reports; Field Naturalists and Microscopical Society, Edinburgh, 5 volumes; Gesellschaft der Naturfreunde, Stuttgart, 6 volumes; Manchester Literary and Philosophical Society, England, 10 volumes; South African Philosophical Society, Cape Town, 7 volumes; Missouri Horticultural Society, 11 volumes; and Iowa State Horticultural Society, 13 volumes. An inventory has been made of all books and pamphlets purchased since the establishment of the Library in 1894. On account of the increasing number of books needed in the Departmental Libraries, it was thought advisable to nominate a member of the staff of each department to have charge of the books, and the wisdom of this step is already apparent. Four hundred and fifteen additional titles were furnished for the Second Supplement (now in press) of the List of Serials in the Libraries of Chicago. The number of cards written and added to the catalogues was 8,435, exclusive of several thousand cards received from the Department of Agriculture, to which the call number of the Library was added. Twelve installments of the John Crerar Library catalogue cards have been received. 583 books have been sent to the bindery during the year, of which 225 have been returned.

DEPARTMENTAL CATALOGUING, INVENTORING AND LABELING.—The records of the Department of Anthropology show an unusually large num-

ber of specimens entered in the inventory books during the year. These books now number 25 volumes. Card catalogues have been made of collections as fast as they have been received, and few of the great collections acquired remain uncatalogued. The preparation of lists of specimens from the catalogue cards for the office of the Recorder have been brought to date. Aluminum sunken labels have been prepared during the year for the North Pacific Coast collection and for a large part of the California collection, while identifying labels have been placed on all specimens on exhibition. The Curator of Botany reports entries to the number of 16,147 as having been made during the year, bringing the total up to date to 178,008 items contained in 51 catalogue books. In addition to this, approximately 2,500 cards have been written. In the Department of Geology the amount of cataloguing performed was greater than usual, owing to the large quantity of material obtained from the Louisiana Purchase Exposition. The cataloguing of the invertebrate fossils collected by Mr. Slocum in western New York was also a task of considerable magnitude. With the exception of the Bixby collection, however, which was not received until late in the year, it is possible to report all material in the Department fully inventoried and catalogued. The record of the entries is as follows: Number of Record Books, 19; total number of entries, 52,835; entries during the year, 15,011; total number of cards written, 6,600. These entries are subdivided as follows: Paleontological specimens, 11,546; economic specimens, 1,748; mineral specimens, 1,100; geological specimens, 264; lithological specimens, 187; meteorites, 149; and geographical specimens, 17. The cataloguing of photographs filed in the Department albums has been continued, and additions made during the year number 301. In addition, a system of filing loose photographs has been established, which proves very serviceable for preserving such photographs and rendering them accessible. The files used are similar to the ordinary letter file reinforced by a binding of strong muslin. In these the photographs are filed alphabetically, while the files are grouped according to subjects. The number of photographs now filed in this manner in the Department is 745, and the number of files 22. New labels were provided for the meteorite collection in connection with its reinstallation. These labels are of black cardboard printed with aluminum ink and of a size to fit the front of each block on which a specimen is mounted. Each label shows the name of the meteorite, its date of fall, its classification, weight, and description of the specimen. The number of



MODEL OF PAWNEE EARTH LODGE DURING CEREMONY OF THE MEDICINE MEN.

labels so prepared is 382. In addition two diagrams illustrating graphically the composition of meteorites were made. The collections of clays, soils and sands have been fully labelled, a total of 459 labels, 30 of which were descriptive, having been prepared for this purpose. Ninety complete labels were prepared for the series of oil sands and a total of 385 labels for new specimens in the series of ores of gold, silver, copper, etc. made. A total of 1,465 labels has been prepared and printed for the Department during the year. All the new material in the Department of Ornithology, as well as a number of skins belonging to the original Cory purchase which had hitherto not been numbered, were card catalogued. A catalogue of the birds of North and Central America, including the names and geographical distribution of more than 3,000 birds, has been prepared and is ready for publication. The Curator of Zoölogy reports all records in that department as being in a highly satisfactory condition. The year's work in the Museum on catalogues and inventories is shown in detail below:

Departments.	Number of Record Books.	Total No. of Entries to Sept. 30, 1905.	Entries During 1904-1905.	Total No. of Cards Written.
Anthropology,	26	72,551	9,710	76,441
Botany,	51	178,008	16,147	7,050
Geology,	19	52,835	15,011	6,600
Library,	10	43,702	4,136	42,391
Ornithology,	10	19,699	3,681	3,402
Photography,	4	40,108	12,385	.....
Zoölogy,	20	32,139	968	15,610

ACCESSIONS.—The most important accessions in the Department of Geology were received from the Louisiana Purchase Exposition. They were, for the most part, the gifts of home and foreign commissions of states and countries exhibiting at the Exposition. The material obtained was all carefully selected under the supervision of the Curator, and hence represents new and altogether desirable accessions only. In weight the total shipment from the Exposition aggregated about eight tons. The largest and most important acquisition received from any single commission was that from Brazil, which numbered 1,060 specimens. This included several series of ores and minerals of great rarity and importance. The important manganese ore deposits of Brazil are represented by one mass of manganese ore weighing 3,300 pounds and by several hundred pounds of ores of the same from other localities. The gold ores are represented by large masses from

the well-known Oro Velho mines of Bahia and the arsenical deposits of Minas Geraes. The characteristic siliceous and pipe iron ores of Minas Geraes are also well represented in the material obtained. A full series of diamond-bearing gravels was secured, also several hundred pounds of the Brazilian monazite sands from different localities. Ores of copper, zinc, cadmium and mercury were also secured. The minerals obtained included representatives of a number of rare species, such as goyazite, scorodite, anatase and hydrargillite, and of gem minerals, such as tourmaline, topaz, aquamarine, etc. Other foreign countries from which valuable collections were obtained were: Bulgaria, which furnished 16 specimens, chiefly of copper ores and coals; Canada, 55 specimens, ores and economic minerals, including some from the newly discovered cobalt deposits of Haileybury; Egypt, 20 specimens copper ores and salts; Germany, 29 specimens peat and its products, clays, etc.; Haiti, 39 specimens, copper, gold, manganese, and other ores, and a manuscript geological map of part of the island; Italy, 14 photographs of the marble quarries of Carrara; Japan, 14 specimens phosphates and products; New Zealand, 37 geological photographs; and Rhodesia, 20 specimens ores and minerals, including a remarkable occurrence of gold in talc. Commissions or exhibitors of the United States and territories from whom important collections were obtained were: Alaska, 10 specimens gold ores and coals; Alabama, 30 specimens, chiefly iron ores and sands; Arizona, 57 specimens copper, gold, and other ores and minerals; Arkansas, 54 specimens zinc ores, phosphates, bauxite, asphalt, etc.; California, 131 specimens ores of mercury, chromium, lithium and other metals, infusorial and nitrous earths, onyx and other ornamental stones, and a relief map 8 x 4 feet, of a portion of San Bernardino County; Illinois, 10 specimens soils and clays; Kentucky, 31 specimens clays, sands, and ores; Maryland, 20 specimens soils; Mississippi, 36 specimens clays, marls and sands; Missouri, 51 specimens zinc and iron ores, clays, barites, etc.; New Mexico, 78 specimens of various ores; New York, 17 specimens slates, talcs, and iron ores; North Carolina, 8 specimens monazite, barite, and other minerals; Oklahoma, 22 specimens clays and gypsums; South Dakota, 52 specimens gold and tungsten, ores, quartz, spodumene, mica and other products; Tennessee, 26 specimens phosphates, iron and copper ores; Utah, 33 specimens ores and rare minerals; Virginia, 168 specimens representing the different mineral resources of the state; Washington, 47 specimens gold, silver, lead and copper ores; Wisconsin, 20 specimens building stone, iron ores, etc.; and

Wyoming, 4 specimens jet, kaolin, agate and soda. Some additional valuable accessions were received by gift during the year from sources other than the Exposition. Of these may be mentioned 68 thin sections of meteorites and casts of the Bath Furnace and Boogaldi meteorites from Prof. H. A. Ward; a complete series of rocks and minerals of the Cerro Mercado, Mexico, and a number of rare Mexican minerals, in all aggregating 230 specimens, from Mr. W. H. Schlemm; a series of remarkable sand concretions from California, from Herbert W. Brown; four limonite concretions from Kentucky, from Dr. W. S. Gilmore; three limonite concretions from Indian Territory, from Gen. G. Murray Guion; a series of 83 specimens, illustrating the manufacture and uses of carborundum, from the Carborundum Company; seven specimens gold ores and tundra of Alaska, from W. M. Johnston; and 31 specimens ores and minerals of California and Arizona from the Los Angeles Chamber of Commerce. By exchange were obtained sections of five meteorites new to the collection. These were as follows: Felix and Persimmon Creek, from the United States National Museum; Billings and Bella Roca, from Prof. H. A. Ward; and St. Mesmin, from B. Sturtz. From the United States National Museum were also obtained by exchange large polished slabs of orbicular diorite from Advance, North Carolina, and of jasperized hematite from Ishpeming, Michigan. From the Montana School of Mines were received by exchange eleven specimens of the ores and rocks of the Butte district; from Mr. R. F. Jones of Concord, Massachusetts, a series of nine remarkable crystallized specimens of datolite from Westfield, Massachusetts; from Prof. L. H. Borgstrom, a cast of one of the Shelburne meteorites; and from Mr. Henry E. Purdy of Michigan City, Indiana, two complete fulgurites, each about 18 inches in length, and a number of fragments of fulgurites. The most important purchase was that of the mineral collection of Maynard Bixby of Salt Lake City. This collection represents the fruits of many years' collecting by Mr. Bixby, chiefly in the little known and comparatively inaccessible districts of Utah, Colorado and adjoining states of the West. The collection is, therefore, largely made up of mineral occurrences little known elsewhere, and affords material of a rare character for purposes of study and display. Suites of specimens which may be mentioned as of especial interest and importance are the following: Crystallized gold, weighing 3 ounces, Breckenridge, Colorado; silver nugget, weighing 3 pounds, Globe, Arizona; crystallized realgar and orpiment, Mercur; Utah; crystallized argentite and hessite, Colorado and Montana,

crystallized tiemannite, Marysvale, Utah; quartz crystals containing inclusions, phantoms, etc., Placerville, California; precious opal, Washington; precious sapphires, including crystals and rolled pebbles, Montana; minium, Leadville and Eureka, Utah; rhodochrosite in large and transparent crystals, Alma, Colorado; crystallized cerussite, Utah and Idaho; crystallized azurite in large and varied forms, Arizona; hiddenite in crystals of gem quality, Alexander County, North Carolina; rose beryl, Dugway Range, Utah; crystallized phenacite, Crystal Peak, Bear Creek and Mount Antero, Colorado; topaz crystals in great variety from the Thomas Mountains, Utah; probably the largest perfect crystal of topaz ever found in the United States, Cheyenne Mountain, Utah; large crystal of andalusite, Oreville, South Dakota; crystallized blue calamine, Elkhorn, Montana; bixbyite, Dugway Range, Utah; olivenite in great variety, Eureka, Utah; scorodite in remarkable perfection of form from the same locality; an extraordinary crystal of vivianite from Silver City, Idaho; conical chalcite in large masses of rich color, Tintic District, Utah; crystallized uraninite, Portland, Connecticut; anglesite in crystals of remarkable perfection and size, Eureka, Utah; crystallized leadhillite, Shultz, Arizona; an extraordinary crystal of linarite on matrix, Eureka, Utah; crystallized wulfenite of rich and varied colors, Shultz, Arizona; napalite, Aetna mine, California; pseudomorphs of hematite after enargite, Copperopolis mine, Utah; and malachite pseudomorphous after selenite, Mammoth, Utah. The collection numbers 2,400 specimens and adds to the Museum collections 75 species or varieties which had not been before represented. From the Director of the Geological Survey of Japan a series numbering 34 specimens of new or unusual minerals of that country was obtained by purchase. These specimens include beautiful danburites from Obira, hyalite from Tateyama, twin quartzes from Otomezaka, and choice topazes from the well-known Takayama locality. In a series of specimens purchased from the estate of the late George Wilkinson of Beloit, some remarkable manganites from the well-known Negaunee, Michigan, locality were obtained. These include a geode and two specimens of the "nailhead" variety. An extraordinary crystal of hematite, a fossil fish from the Green River beds and a disarticulated fossil nautilus were other important specimens obtained in this purchase. Twelve specimens of the large, violet-colored calcites recently discovered at the May Bell mine near Joplin, Missouri, were obtained from an exhibitor at the Louisiana Purchase Exposition by purchase. The South Bend meteorite, re-



cently discovered in Indiana, was purchased entire, also one of the two stones of the Shelburne, Canada, meteorite, which fell August 13, 1904. Other purchases of special importance were those of a glaciated mass of copper weighing 372 pounds found near Markesan, Wisconsin, and two remarkable crystals of gem quality of pink beryl recently discovered near San Diego, California. The accessions in Anthropology have been largely due to purchase, these for the first time in several years exceeding in importance and number those acquired by exploration in the field. This is due to the fact that much of the time of the various members of the staff of the department was occupied in St. Louis at the close of the Exposition in matters of interest to the department, at which time a large number of collections were purchased. From the few expeditions which have been in the field, however, important material has been obtained. Thus, through Dr. C. F. Newcombe, notable additions to the Northwest Coast collections have been made, the most important consisting of skulls and skeletons, several inside house posts, and other carvings from that region. From Dr. J. W. Hudson has been acquired a large collection of material from the Lower Klamath, supplementing the collection made by him in the year previous. Of acquisitions through gift, the most important is that from Mr. S. L. James of this city, who presented a large number of earthenware vessels, several smaller objects of Egyptian archæology, seven mummy coffins, and one large white marble sarcophagus seven feet in length and beautifully carved. This sarcophagus is of a late period and was unquestionably done by Roman or Grecian artisans. Mr. H. D. Higinbotham presented an unusually interesting prepared head from the Jivero Indians of Equador, while Mr. W. E. Prager also presented a small but interesting collection of flint and stone implements illustrating the archæology of Ireland. Of the collections received through exchange, the most important was a collection of about 100 skulls of the Navajo and other Indians of the Southwest from the Brooklyn Institute of Science and Art; an unusually interesting Haida house post and a large model of Mitla and Monte Alban from the United States National Museum, and a series of busts from Siberia from the American Museum of Natural History. The collections acquired by purchase are many in number, and include several of great importance. Of these only the most important are here noticed. Considering first the collections acquired at the St. Louis Exposition, may be mentioned the very large and important collection illustrating the archæology of the Province of Calchaqui of the Argentine Republic secured

from Mr. Zavaleta. Probably next in importance to the Zavaleta collection is that of a large number of Thibetan bronzes and East Indian ethnology; the Donne collection from New Zealand comprising six Maori feather cloaks and a number of Maori carvings, and the archæological collection from Egypt selected by Dr. Breasted. From Mr. Hardy of Berlin was purchased an interesting collection of ethnological specimens from German East Africa, chiefly from the Massai. Of especial interest in this collection is a series of thirty life masks and a completely costumed Massai warrior. There is also a very interesting carved door-way of native design and construction. From the Siamese Pavilion was obtained a collection numbering several hundred specimens, among them being many musical instruments, pieces of armor and weapons. In the Soudan collection, exhibited in the Fish, Forestry and Game Building, an exhibit was secured which extends the collections in the department to the North of Africa, a region heretofore unrepresented. From Dr. Jenks, the Director of the Bureau of Ethnology of the Philippine Islands, was secured a choice series of objects largely of head-gear. These are of special interest, owing to the fact that they were selected and thoroughly identified by Dr. Jenks. From the Rev. Mr. Verner was secured a valuable collection brought by him from the Pigmy region of Central Africa. Other collections secured from St. Louis are Haida carvings, a collection of Hupa feather work, a large collection of Cinghalese ceremonial masks, a collection of about 200 specimens from the Cliff Dwellers, an interesting collection from the Ainu, a few specimens from the Cheyenne and a large number of objects from the North Pacific Coast taken to the Exposition by Dr. C. F. Newcombe. The more important of the other purchases made during the year include two ceremonial buffalo robes from one of the Rio Grande Pueblos; a gold necklace and other valuable additions from Egypt and Italy, purchased by Mr. Ayer; a small collection of Blackfeet objects including a number of skulls and skeletons; a carefully collected collection from the Togo Hinterland secured through the kindness of Dr. Otto Finsch; a large number of carefully selected and choice specimens from Fred Harvey, including buffalo robes, buffalo hide shields, a number of rare Tlingit specimens and four representative basket collections and a large collection, in many ways unique, from one of the tribes of the Columbia River. From Professor Starr was purchased a collection numbering about 6,000 specimens comprising in addition to the material obtained by his three years' exploration at Tlacotapec, a large number of archæolog-

ical specimens from various parts of Mexico, the Penefiel collection, a series of 100 busts of Mexican Indians, a large and comprehensive ethnological series illustrating the life of the Mexican Indians of to-day, and several miscellaneous collections of the North American Indians, among them the Iroquois, Tonkawa, and Sauk and Fox. The collection also included one of the very rare ancient throwing sticks from the Cliff ruins of Utah. Of the new material acquired in the Department of Botany a fair half was secured by careful selection among the principal foreign countries exhibiting at the Louisiana Purchase Exposition. From this source the following specimens were derived: From Portugal, a series of vegetable oils from the fruits to the products, illustrating the utilization of the oil of olives, coco, purging nut, and ground nut; a very full series of the native plants used in this country in domestic medication by the laity; a full illustrative collection of the Portuguese method of harvesting pine resins, from a large trunk showing the method of tapping, through the tools and utensils used, to the various resins, gums and oils extracted; an interesting series of the principal agricultural products of the country, and many of its colonial possessions; a few examples of cork products needed to complete the already very full illustrative collection in the department; and a series of the rubbers of Portuguese Africa. From Egypt, a very complete and representative collection of the cereals, legumes, and other edible grains peculiar to the delta of the Nile; an excellent series of the more valuable Egyptian cottons; a fine series of sugar, exemplifying the products from the cane; a valuable collection of dried dates representing all the Egyptian varieties of the fruit; and a series of the native rubbers of upper Egypt. From Ceylon, an unique series of specimens showing the various utilizations of cocconut; the husks, shells, nuts, meat, trunk, sheath, leaf ekels, and wood of the tree; a very full and selected series of the native spices of the country in a large variety of forms and sorts; a full series of the plants employed in disease by the natives, accompanied by a pamphlet giving the source and utilization of each; a complete set of odd fibers, employed by the natives, but not yet having commercial value or exploitation, each of these accompanied by a cord or rope manufactured from the same; various wild and agricultural grains, nuts, berries and other fruits entering into domestic use; the gums, tans, dyes, and barks utilized in woodcraft and domestic arts; the starches manufactured from native plants, utilized but not yet commercial; a very full collection of the varieties of Ceylon teas; a very complete series of the cereals, legumes and other grains of Ceylon; also of the cottons;

and a fine series of various odd nuts growing wild on the island. From California, a series of specimens representing the olive as grown on the Pacific coast, and the extraction of oil therefrom; an excellent series of the cultivated nuts of California, including the various varieties of walnuts, almonds, peanuts, etc.; and a fine specimen, preserved in liquid, showing the full fruiting spathe of the date palm. From Japan, an interesting series of sticks of various timber species, 8 x 8 inches x 10 feet long, which add a number of species to the already nearly complete series of Japanese timber specimens now installed in this department; a very complete and scientific series of the various bamboos produced in that country, this series, organized by the Japanese Forestry Commission, is one of the finest ever exhibited in any foreign country; a collection of waxes; a series of the fine chip produced so extensively in Japan for the manufacture of hats and cords, in this series the chips are accompanied by blocks of the wood from which they are made, and in each case bear the botanical name of the tree from which they are produced; a series of fine examples showing the products of the camphor tree at various steps in the manufacture of the gum, this series adds greatly to the incomplete set already installed in the department; fine collections of saki, nuts, and roots; and various odd forest products of the archipelago, represented by excellent illustrative specimens. From New Zealand, grains and fibers. From Haiti, besides a collection of tobacco and cigars, specimens showing the product of the chocolate nut as made by the natives for domestic use. From Virginia, a collection of peanuts. From Louisiana, a series of white papers made of bagasse — of higher class than those already installed in this department — thus completing the exhibit of this interesting product. From Siam, various specimens and utilizations illustrating the native processes and products in the manufacture of Laos and Siamese papers, from the raw products to native books of the finished article. From Germany, a long illustrative series of the various peats of Germany, with specimens showing their utilization in many ways: fabrics, paper, mats, mattress filling, surgical dressing, vineyard torches, etc., etc. From Bulgaria, a complete series of the cereals, legumes, and other grains, nuts and tobacco. From Rhodesia, native rubbers as produced from several species of Apocymaceous plants, including one interesting new rubber existing in pure threads in the crushed roots of a thus far unknown species; also, collections of fibers, grains, and cottons. From Italy, a series of cereals and legume grains; and

a fine scientifically identified series of the seeds of the native shrubs and trees of Italy, an excellent collection and one seldom, if ever, seen at an exposition. From Formosa, a full series of tree sections of the various timbers utilized upon the island, these were carefully named and prepared by the Forestry Department of Japan; an excellent series of the fibers of Formosa, with some instance of utilization of the same; raw material, pulp and finished papers of various bast and other paper-fiber producing plants; camphor and products; teas; a series illustrating the food nuts of the country; specimens representing the various grades of sugars produced in Formosa from the cane; and series of the food and condiment roots of the island. The herbarium has been augmented during the past year by the accession of 11,089 specimens, among which the most notable series are as follows: Fiebrig's plants of Paraguay (465); Mrs. Ayer's plants of Lake Geneva, Wisconsin (78); Curtiss' plants of the Isle of Pines (308); Mrs. Chase's plants of Maryland, District of Columbia and Virginia (516); Ames' plants of Florida (418); and those of Britton, Small, Small and Carter, Small and Nash, and Small and Wilson (581); van Hermann's plants of Cuba (922); Broadway's plants of Granada (415); the Berea plants of Natal (99); Nash and Taylor's plants of Inagua (249); Britton and Brace's plants of New Providence (478); plants of the Bahamas, Britton and Millspaugh (1147); plants of the Forest of Arden, Illinois, Skeels, (414); the Mexican plants of Palmer (315); and Pringle (1,125); Johnson's plants of Margarita Island (176); Harris' later plants of Jamaica (169); Harper's last collection of Georgia (272); Groth's Texan plants (214); and the Gulf States plants of Tracey (406). The substantial additions to the Herbarium distributed geographically are as follows:

	Accessions.	Total in Herb.
Alabama,	402	960
Bahamas (in general),	21	148
Abaco,	1	1
Cat Island,	117	117
Cave Cay,	33	33
Cay north of Wide Opening,	40	40
Crooked Island,	56	56
Eleuthera,	160	160
Exuma,	221	221
Fortune Island,	83	85
Frozen Cay,	23	23
Galiot Cays,	24	24
Goat Cay,	16	16

	Accessions.	Total in Herb.
Great Bahama,	401	401
Guana Cay,	64	64
Harbor Cays,	52	52
Hog Island,	36	77
Inagua,	396	396
Lignum Vitæ Cay,	31	31
New Providence,	736	1,325
Rose Island,	62	63
Rum Cay,	1	1
Ship Channel Cay,	28	28
Silver Cay,	17	17
Sturup Cay,	31	31
Watlings Island,	31	31
Whale Cay,	27	27
California,	16	8,312
Canada,	29	1,718
Colorado,	77	4,321
Cuba,	991	2,873
Isle of Pines,	308	638
District of Columbia,	162	1,411
Florida,	881	8,763
Florida Keys,	323	595
Georgia,	272	1,256
Granada,	417	517
Idaho,	23	698
Illinois,	557	14,242
Indiana,	35	3,095
Iowa,	4	784
Jamaica,	157	2,731
Louisiana,	51	802
Maryland,	245	595
Mexico,	1,474	9,537
Mississippi,	336	1,686
Montana,	69	1,417
Natal,	99	633
Ohio,	23	592
Oregon,	15	2,924
Paraguay,	465	874
Texas,	713	2,709
Virginia,	122	457
Venezuela,		
Margarita Island,	176	450
Washington,	62	2,500
West Virginia,	20	1,136
Wisconsin,	79	819
Wyoming,	97	303

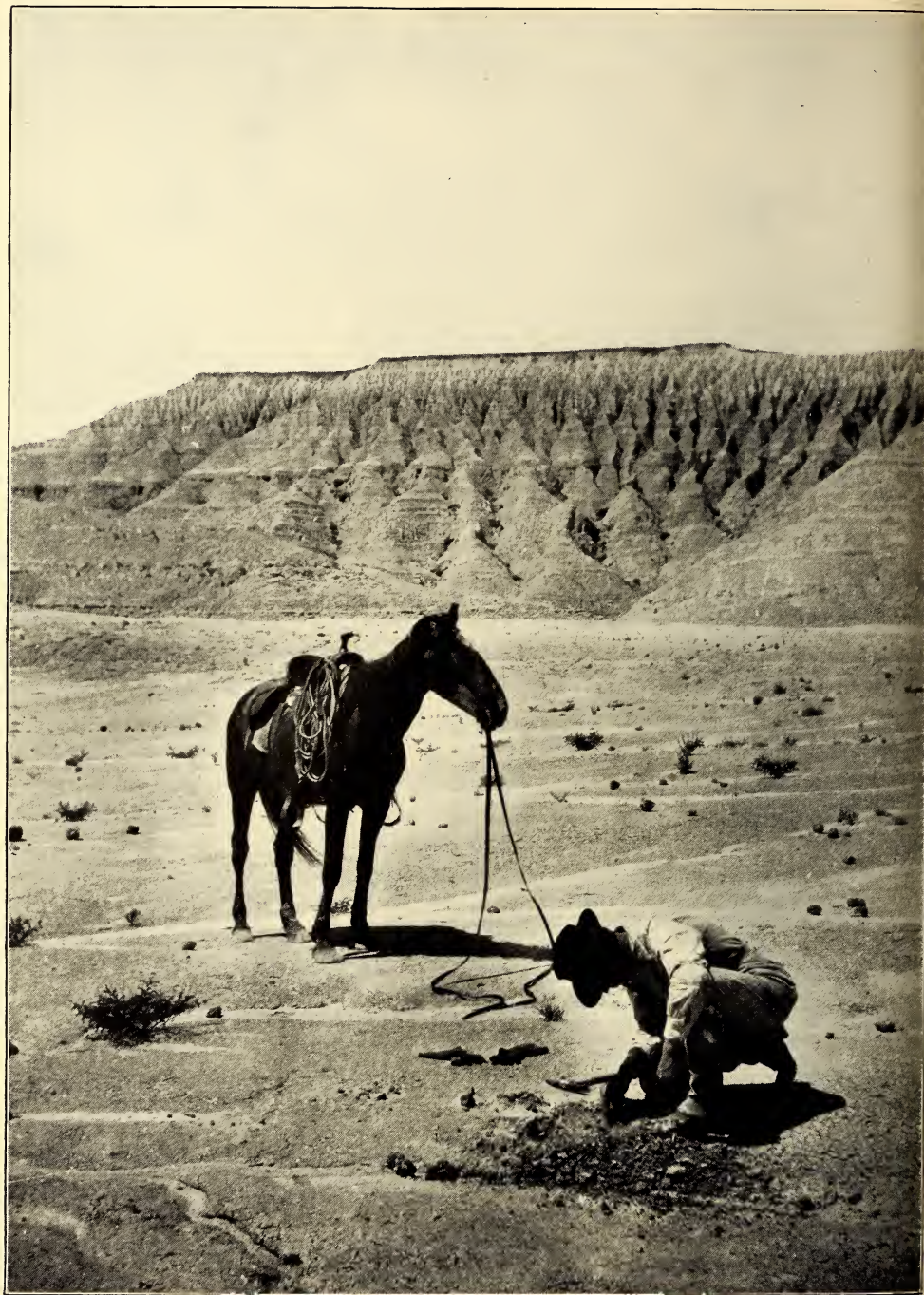
Comparatively few additions have been made to the collections of mammals, the total number of specimens acquired being 403;

of which 14 were purchased, 15 presented, and 374 collected in the field. 721 specimens of fish were obtained during the year; of which 659 were received in exchange or presented. A large number of reptiles were added, and 373 specimens were added to the insect collection. No additions were made to the conchological collection during the year. There have been acquired upward of 2,500 bird skins; 228 complete or partial sets of eggs, and 34 nests; of which 43 species of birds, 82 kinds of eggs and 21 examples of nests were new to the collection. The classification of accessions follows:

	Number of Accessions.	Number of Specimens.
Gifts,	202	6,481
Exchanges,	63	5,948
Collected,	48	15,205
Purchase,	95	24,185
Deposit,	1	6
Collated,	2	824
Transfers,	3	18

EXPEDITIONS AND FIELD WORK. — For reasons already given, expeditions conducted by the Department of Anthropology have been few in number. Mr. Alleyne Ireland, earlier in the year, concluded his expedition to Borneo and the neighboring islands. Dr. C. F. Newcombe spent two months in securing special information required by him in installing the Northwest Coast collections and preparing a report thereon. Dr. J. W. Hudson continued his investigations in the Lower Klamath, begun early in the year, brought them to a close and returned to the Museum, where he has been engaged in preparing his collections for exhibition. The work of investigation among the Arapaho has been continued, Mr. Cleaver Warden being in the field for five months. The Curator has twice visited the Pawnee in connection with his investigations for the Carnegie Institution of Washington. The joint expedition with the Bureau of Ethnology in charge of Mr. James Mooney among the Cheyenne and Kiowa was interrupted during a great part of the year by the necessity of Mr. Mooney's presence in Washington. Mr. Mooney has recently returned to the field. The Curator of Botany, in company with Dr. N. L. Britton, Director of the New York Botanical Garden, and Dr. M. A. Howe, Algologist of the garden, continued, in January last, their united, systematic exploration of the islands of the Bahamian Archipelago never before botanically visited. The party left New York on January 19th, reaching Nassau, New Provi-

dence, on the morning of the 22nd. Here, after working the neighborhood of Nassau until the 26th, they chartered and commissioned a 38-ton schooner and made a trial run to Rose Island, returning to Nassau on the 28th. At 2:00 A. M. on the 29th the cruise began in a run northward along the Berry Islands to Great Bahama, exploring on the way: Whale Cay, Little Harbor Cay, Frozen Cay, Goat Cay, Lignum Vitæ Cay and Great Harbor Cay, reaching Great Bahama Island on the third of February. Here, on account of the dangerous coast, the party went into camp at Eight Mile Rock, sending the vessel away to safe harbor to return on the 9th. After five days' valuable collecting at this point the schooner returned and the party moved to Barnett's Point, and later to Golden Grove, leaving again for Nassau on the 14th. On the 16th, another start was made to the southward for the purpose of exploring the Exuma Chain from Ship Channel Cay to Great Exuma. Work was begun at Ship Channel Cay February 17th, and continued southward along the chain, visiting Shrouds Cay, Cave Cay, Little and Great Galiot Cays, the Cay north of Wide Opening and Great Guana Cay, reaching Exuma on the morning of the 23rd. Six days were spent on this interesting island, and Nassau reached, at the end of the reconnoissance, on March 3rd, where four days' further exploration was conducted while awaiting a return steamer to New York. This trip resulted in large collections of herbarium material, and a series of observations, especially in phytogeography and the mutation of species, of deep interest to botanical science. During April and May the Curator of Geology visited points in Arizona and southern California for the purpose of procuring specimens of minerals and ores not hitherto represented in the Museum collections. In Yuma County, Arizona, several important mining districts were visited and full series of the ores and rocks there to be obtained were collected. Among these districts were those of Castle Dome, Picacho, La Paz, Middle Camp, Cinnabar, and Kofa. In the Plumosa Mountains of Arizona specimens of a remarkable and little known copper deposit were obtained, together with a number of volcanic rocks. From the Santa Maria Mountains of California were obtained specimens of new occurrences of iron ores, of garnet, and of marble, also several remarkable examples of rock weathering, polishing, and petrification. About two dozen geological photographs, illustrating chiefly the history of the Colorado River, were also made. In San Diego, California, specimens of a new occurrence of large garnet crystals, also of zoisite, pink beryl, citrine quartz and precious tourmaline were obtained. Field work for the



PROSPECTING FOR FOSSILS IN THE BAD LANDS OF SOUTH DAKOTA.
MUSEUM EXPEDITION OF 1905.

collection of vertebrate fossils was continued during four months of the summer by a party under the direction of Assistant Curator Riggs. It was deemed best to devote the time to the collection of fossil mammals rather than of reptiles as heretofore, since several important groups of mammals remained as yet unrepresented in the collections, and the reptilian skeletons occupy so much space as to make their exhibition impracticable at present. The work of collecting was carried on for the most part in the White River beds of South Dakota. The results were highly gratifying, as regards both the quantity and quality of the material obtained. Remains of the water-deer, *Leptomeryx*, which are usually of rare occurrence, were found in abundance and enough material obtained to insure one or more complete skeletons, together with a slab about 10 by 4 feet in size on which massed skulls and skeletons will appear in relief. Remains of the sabre-tooth cat, *Dinictis*, and the primitive horse, *Mesohippus*, were also obtained in sufficient quantity to insure a mounted skeleton of each. Of the American rhinoceros, *Aceratherium*, five skulls were obtained; of the cursocial rhinoceros, *Hyracodon*, four heads and a partial skeleton; of the carnivores, *Hyænodon*, *Daphænus*, and *Hoplophoneus*, a number of good skulls; of the large suilline, *Elotherium*, three heads; of the gigantic Brontops one fine skull; of the rarer ungulates, *Hyopotamus*, *Anthracothe-rium*, and *Protoceras*, representative skulls; also a number of skulls of squirrels and other small mammals, and the only complete skull of a lizard known from this formation. The shipment from the field aggregated about four tons in weight. Several dozen photographs illustrative of the work of collecting and the geology of the region were also made by the expedition. The Chief Taxidermist and his assistants were in the field intermittently, investigating the Fox River region of Illinois, securing ornithological notes and material to be utilized later for group work. Messrs. Heller and Barber, having returned from southern Mexico, were dispatched during the early part of the year to Guatemala, where they were successful, taking many specimens for the systematic and study collections. Probably the most important expedition is the one dispatched to British East Africa under the direction of Chief Taxidermist Akeley. In the report on local field work by the Department of Ornithology, the Assistant Curator explains that in order to extend the study of local distribution of birds, longer and, consequently, fewer trips were made this year than previously. Inasmuch as the collection in this department is far more complete in eggs and

skins than in any other branch of ornithology, very little of that sort of collecting was attempted. The series of alcoholic nestlings begun last year was considerably increased. A collection of skins of moulting birds, prepared so as to show the progress of moult from origin to finish, was begun. When complete, this series will be valuable and unique. Another collection, also begun this season, consists of viscera to be used for comparative purposes when the accumulation is large enough and, in connection with the collection of bones begun several years ago, to show correlation between structure and habits. The study of life histories was continued and a camera was used wherever it was possible. The following list indicates the various expeditions sent out during the year:

Locality.	Collector.	Material.
North Pacific Coast, . . .	C. F. Newcombe, . . .	Tsimshian Ethnology.
Lower Klamath River, California,	J. W. Hudson,	Hupa Ethnology.
Wyoming,	C. Warden,	Arapaho Ethnology.
Bahamas,	C. F. Millspaugh,	Herbarium Material.
South Dakota,	E. S. Riggs,	Vertebrate Fossils.
Oklahoma,	Geo. A. Dorsey,	Pawnee Ethnology.
Fox River, Illinois,	C. E. Akeley and Assist- ants,	Ornithological Material.
Guatemala,	Edmund Heller and C. M. Barber,	Mammals.
Arizona and California,	O. C. Farrington,	Minerals and Ores.
Illinois,	N. Dearborn,	Ornithological Material.
*Bermuda,	T. H. Bean,	Fishes, Reptiles and Invertebrates.
*British East Africa,	{ Carl E. Akeley, Vernon Shaw Kennedy, Edmund Heller, }	Mammals and Birds.

INSTALLATION, REARRANGEMENT, AND PERMANENT IMPROVEMENT.—New cases have been provided for the meteorite collection, occupying Hall 62. Five of these are wall cases, both kinds of cases being similar in design, with a few modifications, to those of Skiff Hall. The wall cases are upright, with a pillared base and projecting bay. Their dimensions are: Length 12 feet, height 7 feet, depth of upper portion 10 inches. The sashes of the upright portions consist of single lights 38 x 68 inches in dimension, and are secured in place by locks and bolts. The bolts screw into nuts fitted into the framework of the case, thus obviating the loosening from wear which would result if they screwed into wood alone. The lower edges of the sashes are rounded to fit grooves in the framework of the case,

*Expedition still in field.

thus permitting ease in swinging and removal of the sash without danger of marring. The cases are shelved, and the shelves are adjustable as to number and height by supports fitting into a series of slots at either end. The sashes of the bays are 16 x 70 inches in dimension. They are swung by hinges and locked by bar locks. In order to prevent the entrance of dust all edges meeting with the framework are tongued or grooved to fit corresponding grooves or tongues in the framework, while felt stops are also provided along the grooves. The floor cases are four feet square and four feet six inches high above the base, which rests on heavy turned legs two feet high. The bases are constructed so as to be able to support if necessary a weight of at least one ton. Step pyramids within the cases corresponding in size to the sizes of the specimens afford means of installation. The four floor cases are devoted to the exhibition of four meteorites. These are: Brenham, fifteen individuals and sections weighing 980 pounds; Canon Diablo, twenty individuals and sections weighing 1,518 pounds; Long Island, one individual weighing 1,161 pounds; and Toluca, twenty-four individuals and sections weighing 390 pounds. The remaining specimens of the collection are installed in the wall cases just described, being grouped under the three classes of iron, iron-stone and stone meteorites, and arranged chronologically under each group. Each specimen is mounted on a bevelled black block of a corresponding size and has a label of black cardboard printed with aluminum ink. The case interiors are also black. Thus a uniform tone in the surroundings of the specimens is secured which throws them into greater prominence and enables them to be seen to better advantage. In the case-bays are exhibited chiefly casts illustrating forms of individual meteorites. The total number of meteoric falls now represented in the collection is 280, and the total weight 5,060 pounds. The specimens of native silver, Hall 63, which had been badly tarnished, were cleaned and placed in closed glass jars, thus enabling them to be exhibited without further danger of tarnish. Accessions to the mineral collection received during the year have also been installed in this hall in their proper places. In Hall 68, devoted to clays, sands and cements, a large number of specimens has been added, the clay collection alone having been increased to nearly three times its former size. This increase was largely due to material obtained from the Louisiana Purchase Exposition. The synoptic clays, as now exhibited, number 43 specimens, the potter's clays 60 specimens, the fire clays 54 specimens, and the brick clays 147 specimens. These specimens are for

the most part from distinct localities and include briquettes showing the qualities of the burned as well as of the raw product. Of mineral paints, ochres and fuller's earths, 71 specimens are shown. A series illustrating the manufacture of glass has been installed, together with glass sands from various localities. Other uses of sand, such as for molding, refractory purposes, grinding, etc., are illustrated by a collection numbering 61 specimens. The soil collection has also been considerably increased, there being now shown 53 specimens of soils and subsoils arranged according to the nomenclature of the United States Department of Agriculture, and 63 specimens of soils as they are more commonly known. In addition a collection of 34 specimens illustrates the origin of soils and their physical and chemical characters. In Hall 78, devoted to salts, abrasives, etc., a large increase in material, due in part to accessions from the Louisiana Purchase Exposition, has compelled a general rearrangement and reinstallation. The collection of abrasives has been increased so that it now fills three cases instead of one as heretofore. The new material added is chiefly corundums, quartzes, infusorial earths, novaculites and whetstones. An entire case of barites, or heavy spar, from different localities, is now shown. To the salt collection specimens illustrating 17 localities or products, chiefly from Egypt and Peru, have been added. A large chart presented by the Solvay Company illustrating the use of soda has been framed and placed in the hall. In Hall 70, devoted to forms of carbon, a number of German peats and their products obtained from the Louisiana Purchase Exposition, have been added to the peat collection, also specimens of the Alaskan tundra. To the diamond collection have been added eleven specimens illustrating varieties of the diamond gravels of Brazil. The graphite collections in the same hall have also been rearranged and reclassified and are now large and complete. The labels of the series of oil sands, Hall 71, numbering 64 specimens, which were mounted in bottles so as to be capable of being turned about for examination, had suffered much injury owing to constant handling. New labels were accordingly provided and coated with varnish to prevent further wear. Two cases of kerosenes were discarded from the hall, as they duplicated other specimens. By removal of these cases and a rearrangement of those remaining, about 300 square feet of much needed storage space was obtained at the south end of the hall. This was partitioned off and connected with the paleontological laboratory. In Hall 59, devoted to Mesozoic fossils, the large and complete Plesiosaur girdle and paddle, col-

lected by the paleontological expedition of 1904, has been installed, also a large carapace, two feet four inches in length, of a Cretaceous turtle, and numerous bones of Triceratops collected by the same expedition. Space for the installation of these specimens was obtained by the reinstallation of three cases which had previously been devoted chiefly to invertebrate fossils. The result has been to improve the appearance and sequence of the collections as a whole. The life-size model of the skeleton of Dinoceras, Hall 61, which had become much discolored and badly cracked, has been thoroughly refilled and repainted so as to be now in excellent condition. In the paleontological laboratory attention has been devoted chiefly to cleaning and mounting the large amount of Triceratops material collected in Montana in 1904. Of the three skulls collected one has been fully worked out and mounted for exhibition. This skull is one of the largest and finest of this extraordinary reptile ever found, and possesses features new to science. The length of the skull is six feet, six inches, its width at the frill four feet, four inches, and its height, including horns, three feet, six inches. The following portions of the skeleton of the same individual have also been prepared for exhibition: Right scapula and coracoid, left scapula, right and left humerus, right and left ulna, right ilium, right and left pubis and seven caudal vertebræ. Another skull of Triceratops has been partially worked out. Remains of a large Cretaceous turtle and some Plesiosaur remains collected by the same expedition have also been worked out. The collection of Silurian and Devonian invertebrate fossils made in western New York by Mr. Slocum in 1904 and numbering over 11,000 specimens, has been carefully classified, cleaned and identified, affording representatives of nearly 300 species, for the most part new to the collections. The rock cutting and grinding machine, which has hitherto been worked by foot power only, has been connected with the water motor and a mechanical abrasive and water feed provided. A series of laps suitable for the various stages of grinding and polishing has also been provided. By the use of this apparatus a large number of rock and mineral specimens have been polished in the laboratory at a slight cost, improving their appearance and exhibition value. The relief map of Mt. Shasta, Hall 76, which had begun to scale badly, was treated to secure a firm adherence of the outer coating and the whole surface repainted. In Hall 77 a framed geological map of Illinois has been installed. The large and monotonously duplicated series of tobaccos and cottons that has, from the opening of the Museum, filled the North Court

galleries, has been removed to storage and its place filled with a complete series of 41 new wall cases and 4 new floor cases, in which the systematic installation, representing Economic Botany, begun upon the transept galleries, will be continued in greatly expanded form. The plan for installing these cases embodies the intercalation of the cases already installed with the new ones, and the installation of 8 new cases with products of the Grass family; 1 of the Sedge family; 7 of the Palm family; 1 of the Pineapple family; 1 of the Lily family; 1 of the Banana family; $\frac{1}{2}$ of the Orchid and $\frac{1}{2}$ of the Ginger family; 1 of the Willow family; $\frac{1}{2}$ of the Walnut and $\frac{1}{2}$ of the Birch family; 1 of the Oak family; 1 of the Laurel family; $\frac{1}{2}$ of the Poppy and $\frac{1}{2}$ of the Mustard family; 1 of the Rose family; 2 of the Bean family; 1 of the Olive family; $\frac{1}{2}$ of the Cactus and $\frac{1}{2}$ of the Parsley family; $\frac{1}{2}$ of the Milkweed and $\frac{1}{2}$ of the Milkwort families; 1 of the Chocolate family; 1 of the Mint family; 2 of the Nightshade family; 1 of the Daisy family; and several of the families including the Fungi, Mosses, Seaweeds, Lichens, etc. As an adjunct to the work of the department and the reconstruction of the north court galleries, the north gallery has been partly enclosed in such manner as to form a well lighted study 12 x 20 feet, and an installing and storage room 12 x 65 feet, without in any way interfering with the disposition of the collections or the free movement and comfort of the public. These changes have converted the north court galleries into an harmonious uniformity of arrangement that must invite and enhance public interest in the collections, and broaden its knowledge of the sources of economic wealth in the vegetable kingdom. The heretofore crowded Herbarium quarters have been remodeled and enlarged to a capacity sufficient for about five years of normal growth, by throwing the three rooms into one, through the removal of old plaster partitions, and the building of an extension 16 x 28 feet south of and adjoining the west room. This yields well lighted and thoroughly ventilated rooms for the Assistant Curator; accommodations for the Herbarium Recorder and his catalogue and record books; a consecutive arrangement for the herbarium itself; and a well lighted and equipped mounting, storage and distributing room for the Herbarium Preparators. The case equipment of the herbarium has been augmented by the installation of four blocks (of eight cases each) of steel construction. These new steel cases appear, at present, to be the acme of herbarium case construction, being of neat appearance, in part, at least, fire proof and air tight; and having a solidity and evident permanency that is highly gratifying. All danger of

warping, cracking open, or having the doors become too loose or too tight is at once avoided, while the ability to poison or insectifuge the contents without removal from the cases, gives a feeling of security not possible in those of any other constructive material. The gain in content space (due to less quantity of material utilized) proves to be about 32 five-inch pigeon-holes over a like size block of wooden cases. The Curator's design of these cases, based upon those already installed in the only other herbarium having adopted the steel cases, gives evidence of the following improvements: the shelf flanges are turned up instead of down and flush riveted instead of bolted, thus avoiding all chance of the genus covers becoming difficult to insert by engaging the flanges or the bolt heads; the allowance of a 2-inch space between the faces of the shelves and the inside faces of the doors, thus yielding free circulation and shelf-label space; the use of straps of steel at the back of the pigeon-holes as stops for the contents, and leaving a 2-inch space between these stops and those of the pigeon-holes of the case immediately in the rear, thus allowing further circulation of air or poison fumes; and at the bottom of each case, the installation of an enameled steel trough in which may be placed carbon-disulphide or a generous quantity of naphthaline or other insectifuge without interfering with the contents of the pigeon-holes; the affixion of a label-holder of generous size to the face of each case in which an indication of the contents may be placed; and the use of paper board slides and drops which automatically convert each pigeon-hole into an easily operated drawer, thus doing away entirely with the breakage of mounted plants through frequent grasping of the fascicles for removal. With these additional cases, embracing 1,008 5-inch pigeon-holes, the capacity of the herbarium is now 3,276 pigeon-holes, capable of containing in the neighborhood of 300,000 mounted sheets. In these the collections have been completely shifted and rearranged in a consecutive, systematic order, and at the same time the pigeon-hole contents have been severally "opened up" to allow of the introduction of inserrendæ for a period of at least three years of normal growth. The enormous increase of the Northwest Coast ethnological collections made it imperative that this material should be reclassified, rearranged and installed. This has been undertaken, and three halls have been opened to the public, *viz.*: those containing the Tlingit and Haida collections. Two other rooms are now being installed; one will contain the Kwakiutl and the other the Salish collections. A regrouping and reinstallation of the California material also became imperative. Fortunately the

transfer of the lecture courses to the Art Institute made available a splendid hall for this purpose, equal in size to four ordinary halls. Into this the California collections have been installed in forty-eight cases, and thus it becomes one of the notable exhibition halls of the Museum — notable, indeed, when it is remembered that six years ago the entire California collections were contained in a single case. The old hall formerly occupied by the California collections became available for the Haida collections. Hall No. 6 has been thrown open to the public during the year, and cases have been requisitioned for Hall No. 7. Considerable work has been done during the year in Osteology, and while no additions have been made to the series of skeletons, much has been done in other portions of the collection. All of the skeletons have been thoroughly cleaned and the standards and bases painted, and all defects in mounting or old workmanship were corrected and repaired. The disarticulated skeletons were also cleaned and arranged in cases under glass. A number of skeletons and skulls that have been cleaned and macerated cannot be mounted and placed on exhibition for lack of a degreasing plant. The Curator decided that it would be advisable to form a new section in Osteology, that of Craniology, and to carry out this idea, the various skulls not belonging to any skeleton have been systematically arranged in Room 25. Seventy-six skulls were especially prepared for this exhibit and a considerable number are awaiting stands. It occurred to the Curator, that, as the classification of mammals is determined in a great degree upon the teeth, their shape and construction, it would be instructive to have a number of skulls prepared to show the formation, situation and method of growth of the teeth, and four have been placed on exhibition, *viz.*: a bear, a beaver, a horse, and a walrus, representing the Orders of the Carnivora, Rodentia, Ungulata, and Pinnipedia. Others will be added as rapidly as opportunities offer, and, as this feature of Craniology is rather unique as well as novel and useful, it is hoped it may be carried out in the future and extended until not only the Orders, but also Families, and sometimes species, may be illustrated by this method. Three hundred and seven skulls belonging to specimens received have been cleaned and arranged in drawers. The Coral Room is nearly in complete order, and the collection has been rearranged and new labels provided, so that nothing detracts the attention from the specimens themselves; and the general construction of the cases and the method of installation challenges the admiration of the visitor, be he layman or scientist, and has received from all quarters unstinted praise.



PHOTOGRAPHY AND ILLUSTRATION.—The following table indicates the work performed in this important division:

	Negatives.	Prints.	Lantern Slides.
Director's Office,	79	49	...
Anthropology,	711	8,313	580
Botany,	2	400	3
Geology,	131	475	61
Ornithology,	46	91	179
Zoölogy,	49	278	12
Distribution, . . . . .	..	41	200
Totals,	1,018	9,647	1,035

Negatives made in the field by Curators of Departments and developed by the Division of Photography:

Anthropology,	270
Botany,	168
Geology,	235
Zoölogy,	12
	685

PRINTING. — The number of labels, forms and other impressions turned out by the printer is shown in the following table:

	Labels.	Other Impressions.
Anthropology,	880	12,050
Botany,	236	11,335
Geology,	4,315	3,721
Zoölogy,	725	3,500
Director's Office,	151	68,641
Library, . . . . .	...	2,500

In addition, 50 copies of a Special Report to the Board of Trustees (42 pages) has been set and printed.

TAXIDERMY. — The Taxidermist (until his departure for British East Africa) and his assistants have been chiefly engaged on experimental ideas for new installations. Several large specimens have been mounted, however, for the systematic collection, and approximately 400 skins prepared for the cabinet series.

ATTENDANCE. — The total attendance record for the year is 207,867, being a decrease of over 37,000 below last year's figures. No special reason can be given for this deficiency. The decrease in the attendance of school children is also to be noted, and this may be accounted for by the fact that the principals of the schools are not aware of the privileges which are accorded by the Museum to their

pupils. The average daily attendance, from the point of figures, must be considered satisfactory, as few European museums boast of an average daily attendance of over five hundred. It is reasonable to suppose that if the Museum were located more conveniently, a large increase in admissions would be realized. Appended is a list of classes, thirty or more, that visited the Museum during the year just closed. A comparison between the daily attendance for the year ending September 30, 1904, and the year ending September 30, 1905, is also given.

LIST OF CLASSES.

Schools and Location.	Teachers.	Pupils.
Geo. W. Curtis — One Hundred and Fourteenth pl. and State st.,	1	47
St. Xavier Academy — 4928 Evans ave.,	2	35
Kershaw — Union ave. and West Sixty-fourth st.,	1	45
Moody Bible Institute — 80 Institute pl.,	1	61
St. Xavier Academy — 4928 Evans ave.,	2	43
Kershaw — Union ave. and West Sixty-fourth st.,	1	33
Bryant — Riverside, Illinois,	1	30
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	1	64
McCosh — Champlain ave. and Sixty-sixth st.,	2	37
Mark Sheridan — Wallace and Twenty-seventh sts.,	1	49
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	2	70
University of Chicago — Chicago, Illinois,	1	53
Schneider (George) — North Hoyne ave. and Wellington st.,	2	37
A. A. Libby — West Fifty-third and Loomis sts.,	—	45
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	2	63
School of Education — University of Chicago, Chicago, Ill.,	4	38
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	2	46
Chicago Home for Friendless — 5059 Vincennes ave.,	1	39
Keith — Thirty-fourth and Dearborn sts.,	1	34
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	4	63
John Marshall — West Adams st. and Kedzie ave.,	1	41
Valparaiso College — Valparaiso, Indiana,	5	200
Valparaiso College — Valparaiso, Indiana,	—	110
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	3	64
W. H. Ray — Fifty-seventh st. and Monroe ave.,	1	36
Normal Practice — Stewart ave. and Sixty-eighth st.,	1	44
Washburne — West Fourteenth and Union sts.,	1	30
Auburn Park — Normal ave. and West Eightieth st.,	2	55
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	1	32
Hyde Park High (Branch) — Fifty-fourth st. and Monroe ave.,	1	39
Wendell Phillips High — Thirty-ninth st., between Prairie and Forest aves.,	1	32
Hyde Park High (Branch) — Fifty-fourth st. and Monroe ave.,	1	39
Jones — Plymouth Court and Harrison st.,	1	37
Hyde Park High (Branch) — Fifty-fourth st. and Monroe ave.,	1	38

Schools and Location.	Teachers.	Pupils.
Baptist Missionary Training — 2411 Indiana ave.,	—	31
Washburne — West Fourteenth and Union sts.,	2	97
Kershaw — Union ave. and West Sixty-fourth st.,	4	154
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	3	66
Washburne — West Fourteenth and Union sts.,	2	67
Hammond — Hammond, Indiana,	3	111
Cooper — 625 West Nineteenth st.,	2	67
J. N. Thorp — Superior ave. and Eighty-ninth st.,	1	43
Hammond — Hammond, Indiana,	1	59
Seward — West Forty-sixth st. and South Hermitage ave.,	1	34
Moseley — Twenty-fourth st. and Michigan ave.,	1	38
Foster — South Union ave. and O'Brien st.,	1	34
Englewood High — West Sixty-second st. and Stewart ave.,	1	81
W. K. Sullivan — Eighty-third st. and Houston ave.,	1	59
W. K. Sullivan — Eighty-third st. and Houston ave.,	2	66
D. R. Cameron — Potomac and Monticello aves.,	2	38
Chicago Lawn — West Sixty-second pl. and Hamlin ave.,	3	71
Taylor — Avenue J. and Ninety-ninth st.,	3	62
Oliver Goldsmith — 210 Maxwell st.,	1	33
A. L. Barnard — W. One Hundred and Fourth and Charles sts.,	1	36
Chicago Home for Friendless — 5059 Vincennes ave.,	2	32
St. Patrick's — Desplaines and Adams sts.,	5	115
University of Chicago — Chicago, Illinois,	3	101
Pullman — Pullman ave. and One Hundred and Thirteenth st.,	2	61
School of Education — University of Chicago, Chicago, Ill.,	1	38
University of Chicago — Chicago, Illinois,	1	43
All Saints' Academy — Watertown, Wisconsin,	125	—
W. H. Ray — Fifty-seventh st. and Monroe ave.,	1	38
Tilton — West Lake st. and Forty-fourth ave.,	1	36
Keith — Thirty-fourth and Dearborn sts.,	2	52
McCosh — Champlain ave. and Sixty-sixth st.,	2	32
Hyde Park High — Fifty-seventh st. and Kimbark ave.,	1	34
Jones — Plymouth Court and Harrison st.,	1	33
Washburne — West Fourteenth and Union sts.,	2	32
Washburne — West Fourteenth and Union sts.,	2	80
Mark Sheridan — Wallace and Twenty-seventh sts.,	1	38
Forestville — St. Lawrence ave. and Forty-seventh st.,	1	42
J. N. Thorp — Superior ave. and Eighty-ninth st.,	3	101

Comparative attendance for the years ending September 30, 1904, and September 30, 1905.

	Increase.	Decrease.
Total Attendance, . . . . .	...	37,258
Paid Attendance, . . . . .	...	3,382
Attendance of School Children on Pay Days, . . . . .	...	1,750
Attendance of Students,	156	...
Attendance of Teachers,	12	...

	Increase.	Decrease.
Attendance of Members,		47
Average Daily Attendance, 1904,		669
Average Daily Attendance, 1905,		569

Herewith are submitted financial statements, analysis of attendance, list of accessions, names of members, etc., etc.

FREDERICK J. V. SKIFF,
DIRECTOR.

FINANCIAL STATEMENT.

RECEIPTS AND DISBURSEMENTS

During the Year Ending September 30, 1905.

RECEIPTS.

Cash in Treasurer's hands, September 30, 1904,		\$ 14,350.39
Petty Cash on hand, September 30, 1904,		739.95
Dues of Members —		
Corporate,	\$ 135.00	
Annual,	2,250.00	2,385.00
Admissions and Check Rooms,		5,048.20
Sale of Guides,		272.75
South Park Commissioners,		15,000.00
Chicago City Railway Company,		2,250.00
Interest on Investments,		48,014.96
Huntington W. Jackson Library Fund,		40.00
Final Dividend on World's Columbian Exposition Stock,		141.97
Sale of Securities,		130,000.00
Sundry Receipts,		901.27
		\$219,144.49

DISBURSEMENTS.

Salaries,		\$ 63,827.57
Guard Service,		11,869.19
Janitor Service,		6,768.16
Fire Protection,		3,291.00
Heat and Light —		
Wages,	\$3,420.00	
Fuel and Supplies,	5,875.53	9,295.53
Repairs and Alterations —		
Wages of Carpenters, Painters, Roofers,	10,052.04	
Material used — paints, oils, lumber, glass, etc.,	1,987.94	12,039.98
Special Exterior Repairs,		5,432.71
		\$112,524.14
<i>Carried forward,</i>		

	<i>Brought forward,</i>		\$112,524.14
Furniture and Fixtures —			
	Cases and Bases,	9,808.68	
	Sundries,	1,140.23	10,948.91
The Library —			
	Books and Periodicals,	1,397.21	
	Binding,	407.20	
	Sundries,	114.02	1,918.43
Sections of Printing and Photography,			1,656.98
Collections Purchased,			50,397.11
Departmental Expenses,			8,394.90
General Expense Account —			
	Freight, Expressage, and Teaming,	2,463.71	
	Stationery, Postage, Telephone, etc.,	1,138.09	
	Expeditions,	11,344.79	
	Publications,	5,655.53	
	Sundries,	2,025.20	22,627.32
			<hr/>
			\$208,467.79
In Treasurer's hands, September 30, 1905,		9,936.75	
Petty Cash on hand,		739.95	10,676.70
			<hr/>
			\$219,144.49

ATTENDANCE AND RECEIPTS FOR THE YEAR ENDING SEPT. 30, 1905.

ATTENDANCE.

Paid Attendance —		
Adults,	16,579	
Children,	985	17,564
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Free Admission on Pay Days —		
School Children,	4,435	
Students,	2,915	
Teachers,	502	
Members,	149	
Special,	282	8,283
Admission on Free Days —		
Saturday,	40,339	
Sunday,	141,681	182,020
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Total Attendance,		207,867
Highest Attendance on any day (August 20, 1905),		6,424
Highest Paid Attendance on any day (July 4, 1905),		381
Average Daily Admission (365 days),		569
Average Paid Admission (260 days),		67

RECEIPTS.

Guides sold — 1,091 at 25 cents each,	\$272.75
Articles checked — 16,099 at 5 cents each,	804.95
Admissions,	4,243.25
	<hr/>
	\$5,320.95

ACCESSIONS.

FROM OCTOBER 1, 1904, TO SEPTEMBER 30, 1905.

DEPARTMENT OF ANTHROPOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
Ethnological specimens from Hudson Bay Eskimo (exchange).
6 Siberian busts (exchange).
Plaster casts of busts of natives at Louisiana Purchase Exposition.
- AYER, E. E., Chicago.
Cap worn by Enrique Daguhob, chief of the Samar Pulajanes —
Samar, P. I.
- BHUMGARA & CO., F. P., Louisiana Purchase Exposition, St. Louis, Mo.
24 bronze objects — Asia.
- BROOKLYN INSTITUTE OF SCIENCE AND ART, Brooklyn, N. Y.
Navaho skulls — Arizona (exchange).
Navaho skulls and skeletons — Chin Lee Valley, N. M. (exchange).
- DORSEY, GEO. A., Chicago.
3 Aymara blankets — Le Paz, Bolivia.
- ELLIOT, D. G., Chicago.
1 Eskimo pouch.
- EMMONS, LIEUT. G. T., Princeton, N. J.
1 old buckskin dress, Wasco — Columbia River, Oregon (exchange).
- FIELD COLUMBIAN MUSEUM.
Collected by J. W. Hudson:
Ethnological specimens from Klamath River and Kern and Inyo
Counties, California.
Collected by Alleyne Ireland:
Ethnological specimens from Borneo and Java.
Burmese photographs, Sarawak photographs.
Collected by James Mooney:
Cheyenne skin tipi, poles and furnishings — Oklahoma.
Collected by Dr. C. F. Newcombe:
7 house posts from Clyoquot, Vancouver Island.
Collected by S. C. Simms:
Ethnological material from Kwakiutl and Clyoquot Indians at St.
Louis Exposition.
House timbers from Louisiana Purchase Exposition, St. Louis, Mo.
Collected by Cleaver Warden:
Ethnological specimens — Northern Arapaho, Wyoming.

STEEL HERBARIUM CASES.

As that section of the herbarium rooms now installed with the new steel herbarium cases does not afford sufficient space to allow of photographing it as a whole, this plate only partially displays the neat and compact character of these cases. They are projected in three tiers, of eight cases each, from the wall at the left. One-fourth of one tier and one-sixteenth of another appear in the plate. Two of the old wooden cases are seen through the doorway at the rear end of the room.



PARTIAL VIEW.
STEEL HERBARIUM CASES

Purchases:

- 1 gold necklace, 3 bronze vessels, 1 glass bowl — Egypt.
- Ethnological specimens from Igorote, Moro, Bontoc, etc. — Philippines.
- Cheyenne specimens — Oklahoma.
- Iroquois specimens — Ontario.
- Ethnological specimens — Hupa, California.
- Philippine photographs.
- Ethnological collection from the Pigmy tribes of Central Africa.
- Skulls from Chickasawaba Mound, Mississippi Co., Arkansas.
- Archæological specimens from Argentine and Peru.
- 1 Apache medicine man's ceremonial effigy.
- 1 quiver, 40 arrows and bow — Ft. Apache, N. M.
- 2 carved Haida house timbers — Alaska.
- Costumes, household utensils, weapons, ceremonial objects, etc., from the Ainu.
- Reproduction of Pompeian stove.
- Ethnological collection from German East Africa.
- Soudanese ethnological specimens.
- Egyptological specimens.
- Ethnological collection from Ceylon.
- Ethnological collection from Thibet and East India.
- Ethnological specimens from Siam.
- Feather robes and other ethnological specimens — New Zealand.
- 1 Chipewea bag.
- Cheyenne bow and arrows — Oklahoma.
- Archæological specimens from Missouri.
- Archæological specimens of Cliff Dwellers.
- Archæological collection — Columbia County, Ga.
- Plaster casts of faces of natives of German East Africa.
- 1 sacred bundle and contents — Pawnee, Oklahoma.
- 10 specimens Arapaho and Cheyenne ethnology — Oklahoma.
- Photographs of Mexican Indians.
- Tlingit ivory carvings from Alaska.
- 1 Santa Inez Indian basket — California.
- 1 cotton shirt red embroidery of Mazateca Indian woman — Rio Tonto, Oaxaca.
- 1 Hopi woman's dress — Arizona.
- 11 Blackfoot skulls — Piegan Reserve.
- 1 Blackfoot medicine flag, 1 man's shirt, 1 war bonnet, 1 boy's shirt, 1 boy's leggings — Piegan Reserve.
- Ethnological specimens from Togo-Hinterland — Togo, Africa.
- Thompson and Frazer River baskets, Coconino baskets, Navaho baskets, Chemehuevi baskets, Apache (White Mountain) baskets, miscellaneous specimens, buffalo robes, medicine shields, Wasco collection.
- 1 Steatite pipe — Murphy, N. C.
- Archæological collection from Mexico and New Mexico, ethnological collection from Mexico and Iroquois, Cherokee, Coahuila, Tonkaway, Sauk and Fox Indians, Mexican and Pueblo busts.

Purchases:

- Prehistoric skulls — Mexico.
 Ethnological specimens from Alaska.
 5 Nez Perce bags, 2 Salish baskets, 3 Makah dolls.
 8 Blackfoot skulls — Blood Reserve.
 2 Steatite pipes, 1 Steatite bowl, 10 spear points.
- HIGINBOTHAM, H. D., Chicago.
 1 artificially shrunk human head Jiveros Indian — Ecuador, S. A.
- JAMES, S. L. (Estate), Chicago.
 Egyptian pottery and stone sarcophagi from Egypt.
- MARATTA, H. G., Chicago.
 50 small sandstone carvings.
- PRAEGER, WM. E., Kalamazoo, Mich.
 8 stone celts, 59 flint knives, etc. — Ireland.
- SCHUPP, P., Bowmanville, Ill.
 6 fragmentary skeletons — Budlong Farm.
- SEELEY, GEO. E., Chicago.
 28 photographs and prints of Irish archæological objects and Moaris.
- SIAMESE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 Models of carts, boats, and other modes of transportation — Siam.
- U. S. NATIONAL MUSEUM, Washington, D. C.
 Haida carved house pole — Queen Charlotte Island (exchange).
 Model of ruins of Mitla (exchange).
- VAN SCHAACK, PETER, Chicago.
 Material from tombs of Egypt.

DEPARTMENT OF BOTANY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- AMES BOTANICAL LABORATORY, North Easton, Mass.
 418 herbarium specimens — Florida (exchange).
- AYER, MRS. EDWARD E., Lake Geneva, Wis.
 78 herbarium specimens — Lake Geneva, Wis.
- BEAN, TARLETON H., St. Louis, Mo.
 1 section of bark *Sequoia sempervirens*.
- BELKNAP, FRANKLIN, Chicago Lawn, Ill.
 7 herbarium specimens — Colorado.
- BRITISH SOUTH AFRICAN CO., London, England.
 13 Rhodesia products — South Africa.
- BULGARIAN GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
 47 Bulgarian products.
- CALIFORNIA STATE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 27 California products.
- CANDOLLE, C. DE, Geneva, Switzerland.
 1 drawing from type of *Wedelia hispida*.
- CEYLON GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
 65 Ceylon products.

- CHASE, MRS. AGNES, Washington, D. C.
 520 herbarium specimens — various localities (exchange).
 1 herbarium specimen — Indiana.
- DEPARTMENT OF ANTHROPOLOGY, Field Columbian Museum.
 6 specimens basket material, *Scirpus lacustris* (transfer).
- DEPARTMENT OF GEOLOGY, Field Columbian Museum.
 1 specimen diatomaceous earth — San Luis, California (transfer).
- DIAS, C. E. A., Colombo, Ceylon.
 1 sample king coconut oil.
- DONNE, T. E., Louisiana Purchase Exposition, St. Louis, Mo.
 20 New Zealand products.
 14 New Zealand products.
- DON PAUL, K., Colombo, Ceylon.
 3 specimens coco wine, arrack and vinegar.
- DRIEBERG, C., Ceylon Commission, Louisiana Purchase Exposition, St. Louis, Mo.
 282 specimens medicinal plants — Ceylon.
- EAGAN, D. H., Dover, Mo.
 1 specimen cob pipe corn — Missouri.
- EGYPTIAN GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
 131 specimens products — Egypt.
- EHMANN OLIVE CO., Oroville, California.
 6 specimens ripe olives, refined olive oil, crude olive oil, olive oil emulsion, crushed olives and olive branch.
- ELIOT, R. HUYSHÉ, Louisiana Purchase Exposition, St. Louis, Mo.
 105 samples Ceylon tea.
- EMRICK, DR. G. M., Chicago.
 2 herbarium specimens — Mexico.
- ENGINEER TOLKSDORF, Berlin, Germany.
 1 specimen peat vineyard torch — Germany.
- ESTACION AGRONOMICA DE CUBA, Santiago, Cuba.
 66 herbarium specimens — Cuba (exchange).
- FERNANDO, T. R., Colombo, Ceylon.
 33 specimens curry powder ingredients.
- FIELD COLUMBIAN MUSEUM.
 Collated by C. F. Millspaugh:
 803 herbarium specimens — Bahama Islands and Grand Cayman, W. I.
 Collected by C. F. Millspaugh:
 1147 herbarium specimens — Bahamas.
- Purchases:
 1 grass root fan — East India
 186 herbarium specimens — Paraguay.
 279 herbarium specimens — Paraguay.
 3 specimens vanilla.
 5 specimens of drugs.
 308 herbarium specimens — Isle of Pines, Cuba.
 80 specimens fibers and ropes — Ceylon.
 1 Sinhalese book — Ceylon.
 1 bundle licorice root — Spain.

Purchases:

- 21 series Sinhalese tans and starches — Ceylon.
 - 55 coconut products — Ceylon.
 - 114 herbarium specimens — Grenada, W. I.
 - 6 economic specimens — Bahamas.
 - 70 herbarium specimens — Grenada, W. I.
 - 49 herbarium specimens — Grenada, W. I.
 - 315 herbarium specimens — Mexico.
 - 65 herbarium specimens — Grenada, W. I.
 - 1 specimen sea weed, *Rhodymenia palmata* — Bay of Fundy.
 - 42 herbarium specimens — Grenada, W. I.
 - 272 herbarium specimens — Georgia.
 - 1127 herbarium specimens — Mexico.
 - 406 herbarium specimens — various localities.
 - 75 herbarium specimens — Grenada, W. I.
- FIELD, MARSHALL, & CO., Chicago
- 1 specimen *Gossypium herbaceum* bolls — Little Rock, Ark.
- FILCHER, COL. J. A., Louisiana Purchase Exposition, St. Louis, Mo.
- 1 cane made of bark of *Sequoia sempervirens* — California.
- FORMOSA, Louisiana Purchase Exposition, St. Louis, Mo.
- 5 specimens fibers — Formosa.
 - 104 specimens Formosa products.
- GATES, F., Lake View, Ill.
- 1 herbarium specimen — Illinois.
- GOONESEKERE, E., Wilimbula Fiber Mills, Ceylon.
- 11 specimens ropes, fibers and braids — Ceylon.
- GOVERNMENT OF SIAM, Louisiana Purchase Exposition, St. Louis, Mo.
- 16 specimens bark, leaves and implements for paper making — Siam.
- GRAY HERBARIUM, HARVARD UNIVERSITY, Cambridge, Mass.
- 1 herbarium specimen — Colorado.
 - 202 herbarium specimens — various localities (exchange).
- GREENMAN, J. M., Chicago.
- 213 herbarium specimens — Texas.
- HAITI COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
- 1 specimen native chocolate — Haiti.
 - 2 specimens Haiti tobacco and cigars.
- HELLER, E. & C. M. BARBER, Chicago.
- 31 herbarium specimens — Mexico.
- HILL, E. J., Englewood, Ill.
- 19 specimens mosses — Illinois and Indiana.
- IMPERIAL GERMAN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
- 2 specimens beet seed, *Beta vulgaris* — Germany.
- INSTITUTE BETHEL, Friestadt, Germany.
- 1 specimen peat for hospital bed — Germany.
- ITALIAN GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
- 197 specimens grains and seeds — Italy.

- JAPANESE GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
67 specimens Japan products.
- JOHNSTON, W. M., Chicago.
2 specimens lichens — Nome City, Alaska.
- KUROWSKI, MRS. A., Chicago.
1 specimen Japanese candy.
- LOUISIANA STATE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
6 specimens bagasse paper — Louisiana.
- MILLSPAUGH, C. F., Chicago.
3 species seeds.
3 species berries and nuts.
4 economic specimens.
2 species artichokes and turnips.
4 herbarium specimens — Yucatan.
1 species nuts, *Mauritia flexuosa* — Brazil.
19 herbarium specimens — West Virginia.
- MISSOURI STATE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
14 specimens Missouri ear corn.
- NATAL BOTANIC GARDENS, Berea, Natal.
99 herbarium specimens — South Africa (exchange).
- NEAPE, FRANK, Fresno, California.
1 specimen raisin cluster — California.
- NEWCOMBE, C. F., Victoria, B. C.
1 herbarium specimen, *Elæagnus argentea* — British Columbia.
1 specimen plumed grass, *Phragmites phragmites* — British Columbia.
- NEW YORK BOTANICAL GARDEN, Bronx Park, New York City.
59 herbarium specimens — Colorado (exchange).
1409 herbarium specimens — Bahamas (exchange).
169 herbarium specimens — South Florida, Cuba, Bahamas and Jamaica (exchange).
21 herbarium specimens — various localities (collated).
2 specimens *Zea mays* — Peru (exchange).
9 economic specimens — Florida and Bolivia (exchange).
94 specimens algæ — various localities (exchange).
- OHIO STATE UNIVERSITY, Columbus, Ohio.
20 specimens fungi — Ohio (exchange).
- OMORI BRAID MANFG. ASSOCIATION, Tokyo, Japan.
23 specimens Japanese chip wood and chips.
- PALMER, DR. EDWARD, Washington, D. C.
4 herbarium specimens — Mexico.
- PAREIRA & JARDIN, Lisbon, Portugal.
49 specimens medicinal plants — Portugal.
- PEAT FACTORY, Heidekrug, Germany.
16 specimens peat and peat products — Germany.
- PORTUGAL GOVERNMENT, Louisiana Purchase Exposition, St. Louis, Mo.
68 specimens products — Portugal and Portuguese Africa.

- ROUFFET & CASTLEBON, Bayonne, France.
24 specimens turpentine products, log and tools — Portugal.
- SHINKIU-GUMI, Kobe, Japan.
4 specimens wood chips, cord, cordage and chip basket, *Thujiopsis dolabrata* — Japan.
- SHIPKOFF & COMPANY, New York City.
1 ounce otto of roses.
- SHOTTER & CO., S. P., Savannah, Georgia.
3 specimens turpentine products — Georgia.
- SILVA TELLES & CO., Sao Paulo, Brazil.
7 specimens fiber, yarn, rope and matting, *Urena lobata*, "Aramina" — Brazil.
- SIMPSON, J. H., Braidentown, Florida.
1 herbarium specimen — Florida.
- SKEELS, H. C., Joliet, Ill.
414 herbarium specimens — Illinois.
- STATE OF VIRGINIA, Louisiana Purchase Exposition, St. Louis, Mo.
2 specimens peanuts — Spanish and Virginia.
- STRENGE, OTTM., Elizabethfehn, Germany.
6 specimens grass peat — Germany.
- SWAMPILLAI, M. B., Colombo, Ceylon.
2 specimens Jaffna tobacco and cigars.
- TARRANT & COMPANY, Colombo, Ceylon.
12 specimens green tea.
- TORIKAI, H., Kanagawaken, Japan.
1 specimen hat braid, *Populus suaveolens* — Japan.
- UMBACH, PROF. L. M., Naperville, Ill.
132 specimens mosses — various localities (exchange).
1 herbarium specimen, *Lamarckia aurea* — California (exchange).
- U. S. DEPARTMENT OF AGRICULTURE, Washington, D. C.
216 herbarium specimens — various localities (exchange).
- U. S. NATIONAL HERBARIUM, Washington, D. C.
729 herbarium specimens — North America and Europe (exchange).
- URBAN, I., Berlin, Germany.
2 herbarium specimens — Antilles and Martinique.
- VAN HERMANN, H. A., Santiago de Los Vegas, Cuba.
959 herbarium specimens — Cuba (exchange).
- WHALER PROGRESS EXHIBIT, World's Columbian Exposition, Chicago.
46 specimens fruits found floating at sea.
- WILSON, PERCY, Bronx Park, New York City.
3 herbarium specimens — Cuba.

DEPARTMENT OF GEOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

- ALABAMA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
30 specimens ores and rocks — Alabama.
- ALASKA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
3 specimens bituminous coal, 5 specimens gold ore, 2 specimens copper ore — Alaska.

- ARIZONA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
57 specimens minerals, rocks, and ores — Arizona.
- ARKANSAS COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
44 specimens ores and minerals — Arkansas.
- BECK, WILLIAM, Kimmswick, Mo.
3 specimens carboniferous compound corals — Kimmswick, Mo.
- BOARD OF TRADE, San Luis Obispo, California.
22 specimens ores and minerals — San Luis Obispo Co., California.
- BORGSTROM, LEON H., Helsingfors, Finland.
Cast of Shelburne meteorite (exchange).
- BRAZIL COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
1060 specimens minerals, rocks and ores — Brazil.
- BRIDGEPORT WOOD FINISHER CO., New Milford, Conn.
2 specimens rose quartz — Connecticut
- BROWN, HERBERT, Yuma, Arizona.
1 geode, 5 specimens sand concretions, 1 specimen dumortierite —
California and Arizona.
- BULGARIA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
16 specimens ores and lignites — Bulgaria.
- CALDWELL, DR. CHAS., Chicago.
1 specimen chalcocite — Butte, Montana.
- CALIFORNIA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
120 specimens minerals and ores — California.
- CALIFORNIA STATE MINING BUREAU, San Francisco, California.
4 models gold nuggets — California.
- CAMPBELL, D. H., Chicago.
3 crystals of barite — Joe Daviess Co., Illinois.
- CANADIAN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
55 specimens ores and minerals — Canada.
- THE CARBORUNDUM CO., Niagara Falls, N. Y.
83 specimens illustrating manufacture of carborundum and its
products.
- CAREY MANFG. CO., Cincinnati, Ohio.
1 specimen asbestos fiber, 3 specimens magnesium carbonate.
- CHAMBER OF COMMERCE, Carrara, Italy.
14 photographs of the Carrara Marble Quarries — Carrara, Italy.
- CHICAGO CRUSHED STONE CO., Chicago.
1 specimen Niagara limestone, 1 specimen glacial pebble.
- COLONIAL MINING CO., Chicago.
1 specimen mercury ore — Cinnabar, Arizona.
- COMBS, R. M., Chicago.
3 specimens fire clays — Scioto Furnace, Ohio.
- DEPARTMENT OF AGRICULTURE, Washington, D. C.
7 photographs — 2 Porto Rico, Utah, Illinois, Colorado, Florida,
Maryland.
- EDISON, THOMAS A., East Orange, N. J.
3 specimens Portland cement in different stages of manufacture.
- EGYPTIAN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
12 specimens copper ore, 1 copper ring (20 lbs.), 8 specimens salt —
Egypt.

FARRINGTON, O. C., Chicago.

14 specimens of minerals — Maine.

FIELD COLUMBIAN MUSEUM.

Collected by O. C. Farrington:

84 specimens ores and minerals — Arizona and California.

Collected by J. W. Hudson:

1 specimen californite — mouth of Trinity River, California.

Collected by E. S. Riggs:

1 nearly complete skull of *Triceratops*, 3 incomplete skulls of *Triceratops*, 2 partial skeletons of *Triceratops*, 3 partial skeletons of *plesiosaurs*, 1 carapace of large fossil turtle, 25 specimens fossil sea crabs — Montana.

1 specimen shell marl, 1 specimen humus — La Crosse, Indiana.

177 Plesiosaur gizzard stones — Alzada, Montana.

1 specimen Laramie soil — Chalk Buttes, Montana.

Collected by A. W. Slocom:

11,043 specimens invertebrate Silurian and Devonian fossils, 15 specimens gypsum nodules, 8 specimens concretions, 5 specimens iron ore, 7 specimens clays and shales — Western New York

336 specimens invertebrate fossils, 1 specimen leaf impression, 4 specimens soils, 2 specimens rock weathering — Kimmswick, Mo.

Purchases:

3 geological photographs.

1 copper boulder, weight 372 pounds — Markesan, Wis.

19 minerals, 16 fossils, 3 miscellaneous geological specimens.

1 specimen bavenite — Baveno, Italy.

12 specimens calcite crystals — Joplin, Mo.

1 Shelburne meteorite, weight 12¾ pounds.

2 stalactites — Killian's Cave, Mo.

1 specimen moss agate, section of stalactite (polished) — Wyoming.

12 specimens minerals — Joplin, Mo.

1 specimen danburite — Switzerland.

34 specimens minerals — Japan.

4 specimens minerals — Arizona and Colorado.

1 Mishawaka meteorite, weight 5¼ pounds.

56 specimens minerals — California.

1 specimen chalcedony — Ballast Point, Tampa, Florida.

2,530 specimens minerals — collection of Maynard Bixby.

FOOTE MINERAL CO., Philadelphia, Pa.

4 specimens minerals (exchange).

GEOLOGICAL SURVEY OF GEORGIA, Atlanta, Ga.

6 specimens ores and rocks — Georgia (deposit).

GILMORE, DR. W. S., Chicago.

4 hollow limonite concretions — Ohio River.

GRAVES, F. P., Doe Run, Mo.

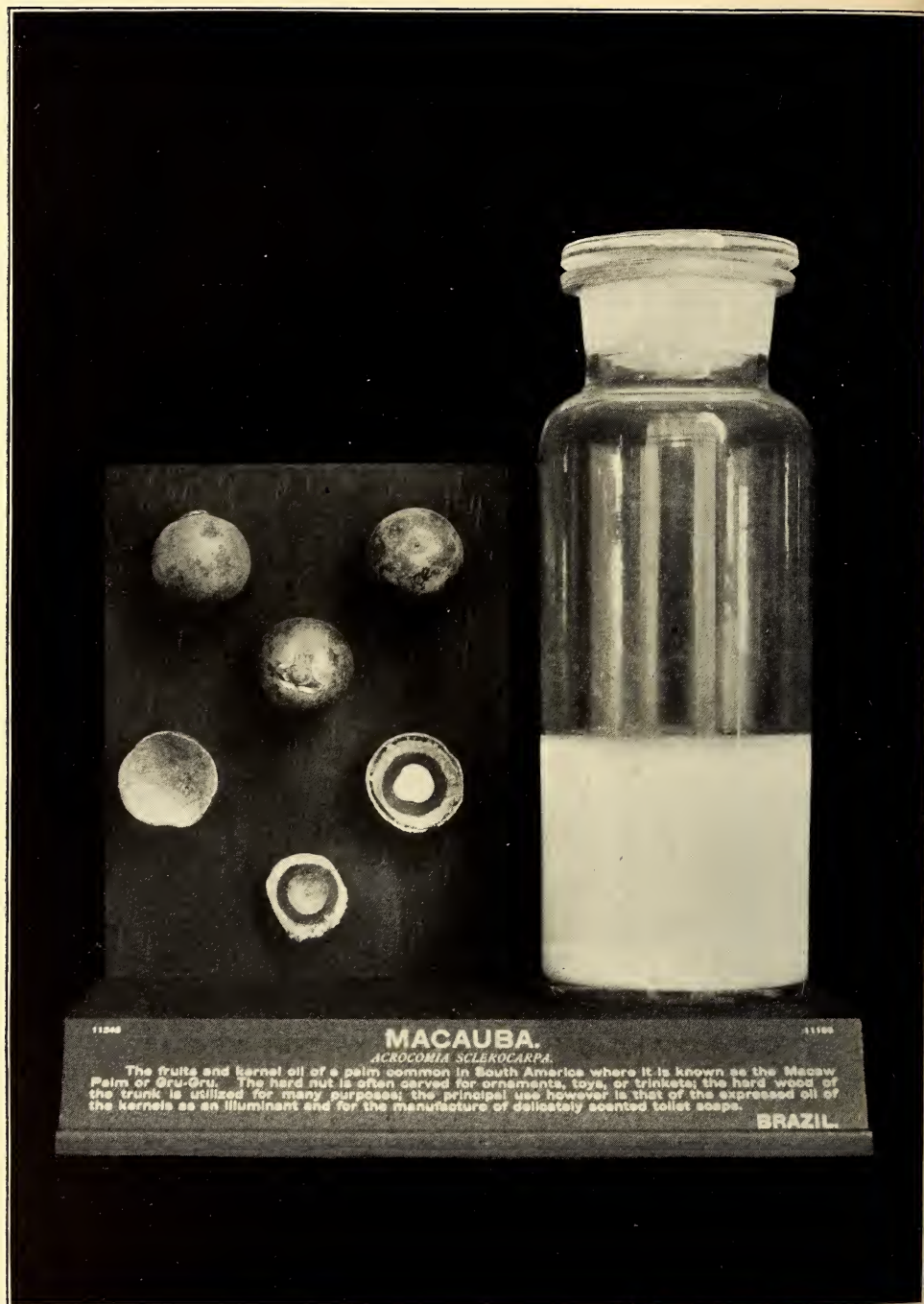
2 calcite crystals, 1 concretion — Doe Run, Mo.

GREENE COPPER CO., THE, Cananea, Sonora, Mexico.

1 specimen chalcocite — Greene Mines, Cananea, Mexico.

- GRIFFITH, D., Penryn, California.
 1 cube granite — Penryn, California.
- GUION, G. MURRAY, Chicago.
 1 specimen weathered sandstone, 1 specimen iron ore — Manitou,
 Colorado.
 3 specimens limonite concretions — Muskogee, Ind. Ter.
- HANSEN, JAMES, Ephraim, Wis.
 1 specimen weathered diabase.
- HONDURAS COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 4 specimens iron ore — Iguala, Honduras.
- IDAHO COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 1 specimen jasper — Owyhee County, Idaho.
- ILLINOIS CLAYWORKERS' ASSOCIATION, Champaign, Ill.
 11 specimens shales and clays — Illinois and Indiana.
- ILLINOIS COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 10 varieties of Illinois soils.
- IMPERIAL GERMAN MINISTER OF AGRICULTURE, Berlin, Germany.
 29 specimens peat, phosphate and clay — Germany.
- JAPANESE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 14 specimens phosphates, 1 specimen manganese ore, 1 specimen
 gold ore — Japan.
- JOHNSTON, W. M., Chicago.
 2 specimens gold ore, 2 specimens tundra — Nome City, Alaska.
 3 specimens water-worn pebbles — Bluff, Alaska.
- JONES, R. F., Concord, Mass.
 9 specimens datolite — Westfield, Mass. (exchange).
- JUDD, LOUIS S., Ehrenberg, Arizona.
 1 specimen carnotite — Colorado.
- KANSAS COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 4 specimens chalk, 1 specimen salt — Kansas.
- KEELYN, JAS. E., Evanston, Ill.
 6 specimens ores and associated minerals — New River, Virginia and
 North Carolina.
- KENTUCKY COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 31 specimens clays, sands and ores — Kentucky.
- KERR MARBLE AND STONE CO., Denver, Colorado.
 2 specimens polished marble slabs — Beulah, Colorado.
- LA MARSH, ALEXANDER, Dillon, Wyoming.
 1 specimen polished jet — Dillon, Wyoming.
- LOS ANGELES CHAMBER OF COMMERCE, Los Angeles, California.
 31 specimens ores and minerals — Arizona and California.
- MANDLE, L., St. Louis, Mo.
 6 specimens potters' clays — United States.
- MARYLAND COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 20 varieties Maryland soils and subsoils.
- MICHIGAN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 1 fossil tree trunk, 6 specimens ores — Michigan.
- MISSISSIPPI COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
 29 specimens clays, 1 specimen silica, 1 specimen sand, 2 specimens
 marls, 2 specimens gravels — Mississippi.

- MISSOURI COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
51 specimens ores, minerals, and clays — Missouri.
- MONTANA SCHOOL OF MINES, Butte, Montana.
7 specimens copper ores and minerals, 4 specimens rocks — Butte, Montana (exchange).
- MORONEY, JOHN J., Chicago.
56 specimens clays, 54 specimens briquettes, 1 specimen tripoli, 9 specimens sands — United States, Mexico, and India.
- MYLES SALT CO., New Orleans, La.
1 specimen rock salt, 1 block rock salt — Week's Island, La.
- NEWELL, DR. S. C., Larchland, Ill.
1 specimen silica — Phelps County, Mo.
- NEW MEXICO COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
78 specimens minerals, ores, and rocks — New Mexico.
- NEWTON, MERRITT, Victor, Colorado.
1 specimen sylvanite with fluorite, Gold Coin Mine, Cripple Creek, 1 specimen descloizite, Bison Mine, Leadville — Colorado.
- NEW YORK COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
11 specimens slate, 2 specimens iron ore, 1 specimen salt, 3 specimens talc — New York.
- NEW ZEALAND GOVERNMENT TOURIST DEPARTMENT, Louisiana Purchase Exposition, St. Louis, Mo.
35 prints and 2 bromide enlargements of views in New Zealand.
- NORTH CAROLINA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
6 specimens monazite sands, 1 specimen barite, 1 specimen genthite — North Carolina.
- NORTH DAKOTA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
11 specimens minerals and soils — North Dakota.
- OKLAHOMA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
22 specimens clays, gypsums, and concretions — Oklahoma.
- PANGALO, GEORGE, Chicago.
1 specimen alum ore — Box Elder Co., Utah.
- PIKE MANFG. CO., Pike Station, N. H.
12 specimens abrasive stones — New Hampshire, Vermont and Arkansas.
- PORTERFIELD, M. W., Silver City, N. M.
7 specimens turquoise matrix.
- PURDY, HENRY E., Michigan City, Ind.
2 fulgurites, 119 fragments of fulgurites — Michigan City, Indiana (exchange).
- RICHARDSON, E., Chicago.
1 specimen glass sand, 10 specimens garnet powders — New York and Michigan.
- ROUMAIN, DR. EDMOND S., Port Au Prince, Haiti.
39 specimens ores and rocks — Western Haiti.
- SAN BERNARDINO CO. COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
1 relief map of portion of San Bernardino County — California.



11246

MACAUBA.

11166

ACROCOMIA SCLEROCARPA.

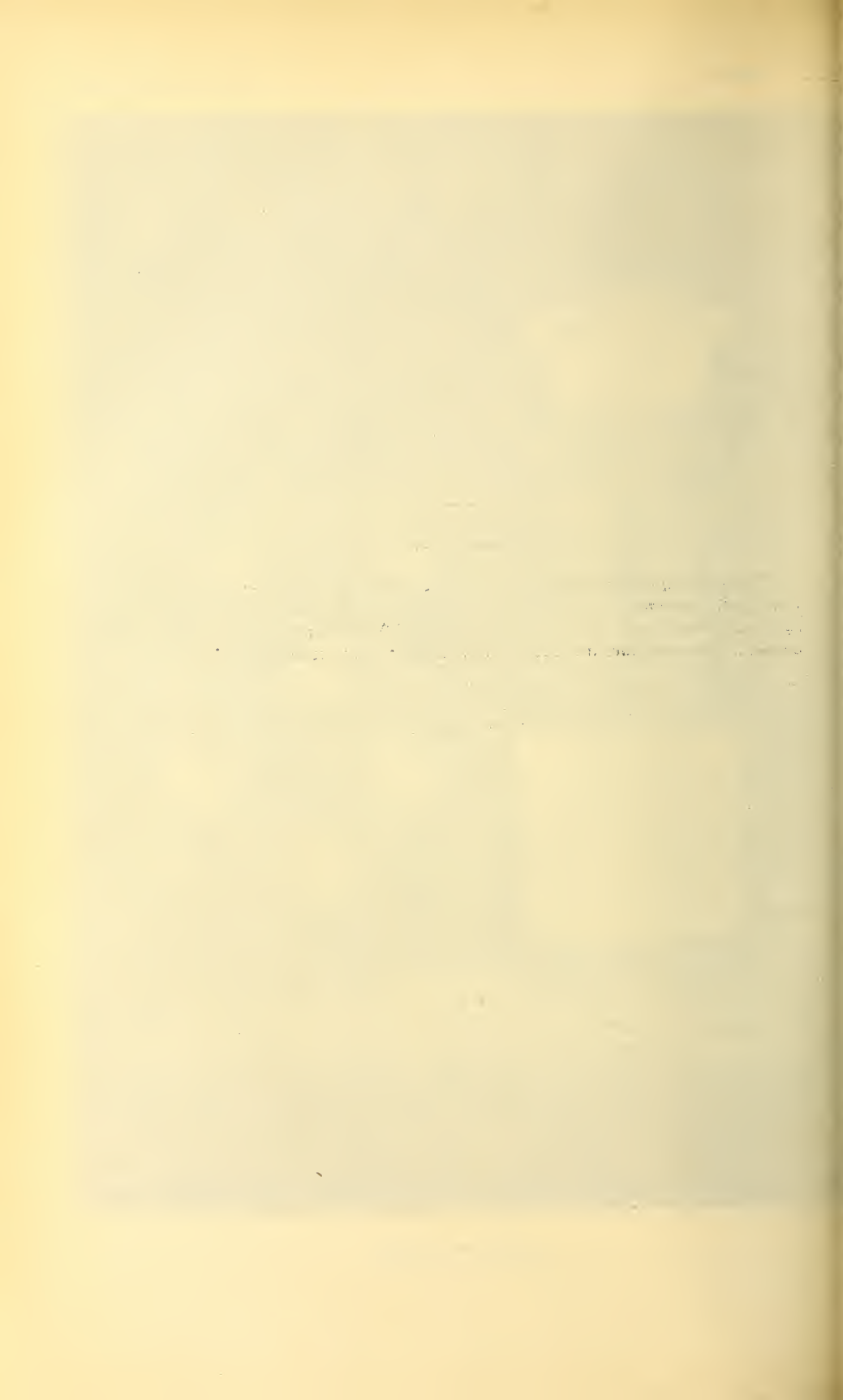
The fruits and kernel oil of a palm common in South America where it is known as the Macaw Palm or Oru-Oru. The hard nut is often carved for ornaments, toys, or trinkets; the hard wood of the trunk is utilized for many purposes; the principal use however is that of the expressed oil of the kernels as an illuminant and for the manufacture of delicately scented toilet soaps.

BRAZIL.

CARPOGRAPHIC MOUNT.

CARPOGRAPHIC MOUNT.

Dry fruits, often accompanied by products therefrom, are mounted on placques backing the adopted label block. These prints are so mounted as to display the stem and flower ends and such sections as will best illustrate their structure and content. These mounts are readily shifted about as circumstances require.



- SCHLEMM, W. H., Villa Corona, Durango, Mexico.
91 specimens rocks and ores of the Cerro Mercado, 53 specimens tin ores, 86 specimens minerals — Mexico.
- SOLVAY PROCESS CO., Syracuse, N. Y.
Chart representing manufacture and products of soda.
- SOUTH DAKOTA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
52 specimens ores and minerals — South Dakota.
- SQUIER & CO., E. E., St. Louis, Mo.
8 specimens molding sands — Missouri and Illinois.
- STURTZ, B., Bonn, Germany.
Fragment of St. Mesmin meteorite (exchange).
- TENNESSEE COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
26 specimens ores and minerals — Tennessee.
- UTAH COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
33 specimens ores, minerals, and rocks — Utah.
- U. S. NATIONAL MUSEUM, Washington, D. C.
165 grams Persimmon Creek meteorite, 44.5 grams Felix meteorite (exchange).
Polished slab of orbicular diorite, polished section of jasperized hematite (exchange).
- VAN SCHAACK, PETER, Chicago.
11 specimens ores, minerals and rocks.
- VERMONT MARBLE CO., Proctor, Vermont.
2 photographs showing varieties of marble.
- VIRGINIA COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
168 specimens ores, minerals, and rocks — Virginia.
- WALSH, PATRICK, Chicago.
1 specimen lepidodendron — Tug River, West Virginia.
- WARD, PROF. H. A., Chicago.
Cast of Boogaldi meteorite — Boogaldi, Australia.
Cast of Bath Furnace meteorite — Bath Furnace, Ky.
68 thin sections of meteorites.
224 grams Bella Roca meteorite, 521 grams Billings meteorite, 26 grams Jelica meteorite, 50 grams Braunau meteorite (exchange).
- WASHINGTON COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
47 specimens ores — Washington Idaho, and British Columbia.
- WELLER, S. A., Zanesville, Ohio.
6 specimens pottery clays, spars, and flints — United States and England.
- WHITE, ALBERT S., Chicago.
1 specimen foliated graphite — Montana.
- WILLARD, N. P., Chicago.
1 specimen silver ore — Montrose County, Colorado.
1 specimen mercury ore, 1 specimen gold ore — Yuma County, Ariz.
- WISCONSIN COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.
20 specimens ores and rocks — Wisconsin.

DEPARTMENT OF ORNITHOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

DANLIKER, RUDOLPH, Morgan Park, Ill.

1 turkey buzzard — Frankfort, Ill.

DEWEY, CLARENCE L., Chicago.

4 eggs of the wild turkey — Dowagiac, Mich.

FIELD COLUMBIAN MUSEUM.

Collected by N. Dearborn:

54 bird skins, 4 birds' eggs, 1 birds' nest — Chicago.

49 bird skins, 19 alcoholics, 49 birds' eggs, 3 birds' nests — Chicago.

Collected by E. Heller and C. M. Barber:

131 bird skins — Sabinas, Mexico.

Purchases:

29 birds' nests, 878 birds' eggs, 2,062 bird skins — various localities.

105 bird skins — various localities.

248 bird skins, representing 56 species of Indian birds — Sirur, India.

4 birds' nests, 36 birds' eggs — Red Lodge, Alberta, Canada.

KENKEL, LOUIS V., Chicago.

1 Alice's thrush — Chicago.

WHITMAN, C. O., Chicago.

1 ring dove.

DEPARTMENT OF ZOOLOGY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

BARBER, C. M., Chicago.

1 salamander, 2 frogs, 9 toads, 2 tree toads, 2 snakes, 42 lizards,
3 horned toads, 1 turtle — Texas, New Mexico, and Mexico

BRIND, W. L., Chicago.

3 butterflies — Malaga, Spain.

CARPENTER, C. H., Chicago

1 dragon fly — Chicago

CHOPE, E. B., Chicago.

8 moths, 1 grouse-locust — Lake Geneva, Wis., and Chicago.

DOHMEN, U. A., Chicago.

1 digger-wasp, 1 beetle — Chicago.

DOUGLAS, J. B., Chicago.

1 hawk-moth — Chicago.

DUGES, ALFRED, Guanajuato, Mexico.

6 specimens fishes — Guanajuato, Mexico.

FIELD COLUMBIAN MUSEUM.

Collected by O. C. Farrington:

1 desert tortoise — Yuma, Arizona.

Collected by E. Heller and C. M. Barber:

6 antelope, 1 coyote — Mexico.

5 antelope, 6 deer, 5 peccaries, 1 coyote — Mexico.

14 squirrels, 2 skunks, 1 fox, 2 coyotes, 7 deer, 4 peccaries — Mexico.

19 deer, 2 antelope, 1 badger, 2 peccaries, 36 small rodents — Mexico.

6 snakes, 17 lizards — Jaral, Mexico.
 3 turtles, 60 fishes — Sabinas, Mexico.
 8 coons, 2 rabbits, 6 wood rats, 1 armadillo, 8 wood mice, 16 jumping mice, 18 bats — Mexico.
 1 rabbit, 3 squirrels, 3 coons, 2 wolves, 1 wildcat, 5 beavers, 2 deer — Mexico.

4 manatees — Mexico.

Collected by E. S. Riggs:

1 pine snake, 3 rattlesnakes — Thumbdance, S. D.

Collected by A. W. Slocum:

50 fresh-water shells — Kimmswick, Mo.

Collected by Wm. J. Gerhard:

53 specimens thrips, moths, ichneumon flies, flies, beetles, parasite, stoneflies, caddiceflies — Chicago.

Purchases:

3 antelope — Turkmenen-Steppe, Russia.

1 wolf, 7 wolverines — British Columbia and Newfoundland.

3 goats — between Bull River and Sheep Creek, British Columbia.

2 spoon-bill catfish — Mississippi River, near New Orleans, La.

175 beetles — Turkey in Asia.

HANCOCK, J. L.

1 mouse — Lakeside, Mich.

JAPANESE SECTION, Louisiana Purchase Exposition, St. Louis, Mo.

4 pearl shells.

KENKEL, L. V., Chicago.

22 frogs, 2 lizards, 2 snakes, 3 salamanders, 4 turtles, 6 toads, 50 tree toads, 4 fishes — Egelston Town, Mich.

1 cicada, 30 beetles — Egelston Town, Mich.

KENNEDY, VERNON SHAW, and WALTER DUPEE.

5 mountain sheep — Lower California.

MANN, WILLIAM, Canadian, Texas.

30 lizards, 2 toads, 1 turtle, 4 snakes — Florida, Pennsylvania, Texas, and New Mexico.

MASON, GEO. E., Chelsea, England.

2 shells.

MENGEL, L. W., Reading, Pa.

10 beetles — Rockhampton, Australia.

MILWAUKEE MUSEUM, Milwaukee, Wis.

22 lizards, 6 toads — Mexico (exchange).

MUELLER, F. R., Chicago.

1 large alligator gar — Lake Washington, Miss.

3 gar pike — Mississippi.

NEW ZEALAND COMMISSION, Louisiana Purchase Exposition, St. Louis, Mo.

3 trout — New Zealand.

PERIOLAT, C. F., Chicago.

1 wolf skull — Alaska.

ROUX, DR. F., Basel, Switzerland.

26 toads and frogs, 39 salamanders, 17 lizards, 18 snakes (exchange).

U. S. BUREAU OF FISHERIES, Washington, D. C.

616 specimens fishes — Samoa.

32 specimens fishes — Maine and Florida.

WAGNER, G., Madison, Wis.

1 steelhead trout, — Lake Michigan.

WILLARD, F. C., Tombstone, Arizona.

1 beetle — Tombstone, Arizona.

WOLCOTT, A. B., Chicago.

15 beetles, 8 cicadas, 3 bees, 1 moth, 10 book-lice — Indiana and Illinois.

SPECIAL ACCESSIONS.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

ADAMS, MILWARD, Chicago.

4 Hudson Bay coins.

FIELD COLUMBIAN MUSEUM.

Purchases:

1 Etruscan necklace of gold figurines alternating with small beads.

100 Syrian, Turkish, Arabian, etc., jewelry, ornaments, etc.

SECTION OF PHOTOGRAPHY.

(ACCESSIONS ARE BY GIFT UNLESS OTHERWISE DESIGNATED.)

FIELD COLUMBIAN MUSEUM.

Made by C. H. Carpenter:

1 lantern slide, "Hall in Karnak."

1,018 negatives, 9,647 prints, 1,035 lantern slides, 685 negatives and films developed, 109 photographs mounted, 61 enlargements.

Made by Geo. A. Dorsey:

48 negatives of general views, etc., on Indian Reservation.

18 negatives of cases, etc. — New York Museum of Natural History.

Made by O. C. Farrington:

24 negatives of general views — California and Arizona.

Made by E. Heller:

12 negatives of mammals and general views — Mexico.

Made by J. W. Hudson:

48 negatives of general views, Indian scenes, etc. — California.

Made by C. F. Millspaugh:

168 negatives of general views.

Made by C. F. Newcombe:

24 negatives of general views — Vancouver Island, British Columbia.

Made by C. L. Owen:

132 negatives of general views, portraits, etc., among the Indians — California.

Made by E. S. Riggs:

108 negatives of general views — Montana and Wyoming Expedition, 1904.

60 negatives of general views — Bad Lands Expedition, 1905.

Made by A. W. Slocum:

6 negatives of the Eclipse of the Sun — Chicago, Ill.

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A FOUR-STORIED NEST OF A YELLOW WARBLER (*DENDRÆCA ÆSTIVA*). EACH STORY REPRESENTS AN ATTEMPT BY THE WARBLER TO AVOID BECOMING A FOSTER PARENT OF A YOUNG COWBIRD.

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ARTICLES OF INCORPORATION.

STATE OF ILLINOIS.

DEPARTMENT OF STATE.

WILLIAM H. HINRICHSEN, *Secretary of State*:

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893 for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, Therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the great Seal of State. Done at the city of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL.]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purpose of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archæology, Science, and History.

3. The management of the aforesaid Museum shall be vested in a board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Ed. E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black, and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook and State of Illinois.

(Signed),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McMurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaas, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, Geo. M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS, }
COOK COUNTY. } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL.]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held on the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS.

(JANUARY 29, 1900.)

ARTICLE I.

MEMBERS.

SECTION 1. Members shall be of five classes, Annual Members, Corporate Members, Life Members, Patrons, and Honorary Members.

Sec. 2. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after notice of election, and within thirty days after each recurring annual date. The failure of any person to make such initiatory payment and such annual payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of annual membership.

This said annual membership shall entitle the member to:

First.—Free admittance for himself and family to the Museum on any day.

Second.—Ten tickets every year admitting the bearer to the Museum on pay days.

Third.—A copy of every publication of the Museum sold at the entrance door, and to the Annual Reports.

Fourth.—Invitations to all receptions, lectures, or other entertainments which may be given at the Museum.

SEC. 3. The Corporate Members shall consist of the persons named in the articles of association, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such persons named in the articles of the association shall within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members, shall, within ninety days of their respective election, pay into the treasury the sum of twenty dollars (\$20.00) or more. The failure of any person to make such payments within said time shall, at the option of the Board of Trustees, be ground for forfeiture of his corporate membership. The annual dues of Corporate Members shall be five dollars (\$5.00) after the first year of membership, and no one shall exercise the rights of a Corporate Member until his dues are paid; and a delinquency of six months in the payment of annual dues shall be ground for forfeiture of corporate membership. Corporate Members becoming Life Members, Patrons, or Honorary Members shall be exempt from dues.

SEC. 4. Any person paying into the treasury the sum of five hundred dollars at any time shall, upon the unanimous vote of the Trustees, become a Life Member. Life Members shall be exempt from all dues.

SEC. 5. Patrons shall be chosen by the Board of Trustees, upon recom-

mendation of the Executive Committee, from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SEC. 6. Honorary Members shall be chosen from among persons who have rendered eminent service to science, art, or mechanics. They shall be chosen by a vote of the Trustees, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues. In commemoration of the 14th day of October, Honorary Members shall not be more than fourteen in number at any one time.

SEC. 7. All members of whatever class shall be eligible to appointment upon Committees other than the Executive Committee.

ARTICLE II.

OFFICERS.

SECTION 1. The respective members of the Board of Trustees now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled by a majority vote of the remaining members of the Board of Trustees at any regular meeting.

SEC. 2. The other officers shall be President, two Vice-Presidents, Secretary, and Treasurer, and an Executive Committee of four persons, who shall be chosen by ballot by the Board of Trustees from their own number as early as practicable after the annual meeting in each year. The President shall be *ex-officio* a member of the Executive Committee and Chairman thereof, in addition to the other four members. The Secretary and Treasurer may, or may not, be the same person, and the Secretary may, or may not, be a Corporate Member.

Any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SEC. 3. The President shall appoint from among the Trustees a Committee on Finance, a Committee on Property, an Auditing Committee, and a Committee on Buildings and Grounds, who shall serve during the pleasure of the Board.

SEC. 4. The officers shall perform such duties as ordinarily appertain to their respective offices, and such other duties as the Board of Trustees may from time to time devolve upon them. The Treasurer shall give bond in such amount and with such surety as shall be approved by the Executive Committee, and shall disburse the funds of the Museum only in accordance with the directions of the Executive Committee, upon the signature and countersignature of such officers as the Executive Committee shall empower thereto.

SEC. 5. The Executive Committee shall have full control of the affairs of the Museum, under the general supervision of the Board of Trustees.

ARTICLE III.

MEETINGS.

SECTION 1. In commemoration of the discovery of America by Christopher Columbus, the annual meeting of the Corporate Members shall be held on the 14th day of October in each year, except when that day falls on a Sunday, and then upon the Monday following. At such meeting the Corporate

Members shall transact such business as may properly come before the meeting. Special meetings of the Corporate Members shall be called at any time by the Secretary upon written request of twenty Corporate Members. In such case, thirty days' notice by mail shall be given to Corporate Members of the time, place, and purpose of such meetings.

SEC. 2. Regular meetings of the Board of Trustees shall be held upon the 14th day of October, except when that day falls on Sunday, and then upon the Monday following, and upon the last Monday of January, April, and July of each year. Special meetings may be called by the President at any time upon reasonable notice by mail, and shall be called upon the written request of three Trustees. Five Trustees shall constitute a quorum, but meetings may be adjourned by any less number from day to day or to a day fixed.

ARTICLE IV.

AMENDMENTS.

SECTION 1. These By-Laws may be amended at any regular meeting of the Trustees by a two-thirds vote of all the members present, provided the amendment shall have been proposed at the last regular meeting preceding or shall be recommended by the Executive Committee.

HONORARY MEMBERS.

EDWARD E. AYER
HARLOW N. HIGINBOTHAM

CHARLES B. CORY
STANLEY McCORMICK

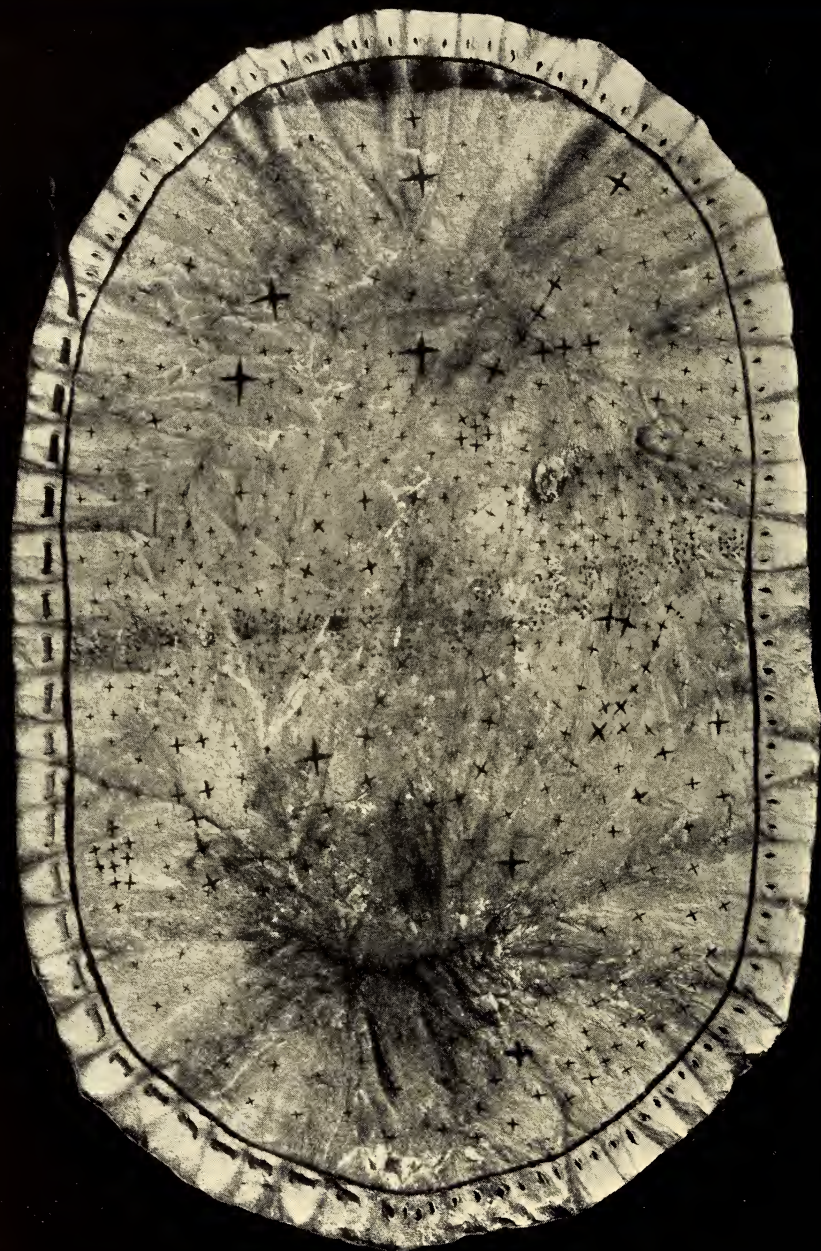
DECEASED.

MARY D. STURGES

PATRONS.

ALLISON V. ARMOUR
WILLIAM I. BUCHANAN

FREDERICK W. PUTNAM
FREDERICK J. V. SKIFF
WILLARD A. SMITH



CORPORATE MEMBERS.

ADAMS, GEORGE E.	HIGINBOTHAM, H. N.
ALDIS, OWEN F.	HUTCHINSON, CHARLES L.
ARMOUR, ALLISON V.	JONES, ARTHUR B.
AYER, EDWARD E.	KEITH, E. G.
BARTLETT, A. C.	KOHLSAAT, HERMAN H.
BLACK, JOHN C.	LATHROP, BRYAN
BLAIR, WATSON F.	McCAGG, E. B.
BLATCHFORD, ELIPHALET W.	McCORMICK, CYRUS H.
BUCHANAN, W. I.	MANIERRE, GEORGE
BUCKINGHAM, EBENEZER	MITCHELL, JOHN J.
BURNHAM, DANIEL H.	PATTERSON, ROBERT W.
BUTLER, EDWARD B.	PECK, FERD. W.
CHALMERS, W. J.	PUTNAM, FREDERICK W.
CHATFIELD-TAYLOR, H. C.	REAM, NORMAN B.
CLARK, JOHN M.	RYERSON, MARTIN A.
CURTIS, WILLIAM E.	SKIFF, F. J. V.
EASTMAN, SIDNEY C.	SMITH, BYRON L.
ELLSWORTH, JAMES W.	SMITH, WILLARD A.
GAGE, LYMAN J.	SPRAGUE, A. A.
GETTY, HENRY H.	STOCKTON, JOSEPH
GUNSAULUS, FRANK W.	STONE, MELVILLE E.
GUNTHER, C. F.	WALKER, EDWIN
HARPER, WILLIAM R.	WALSH, JOHN R.
HATCH, AZEL F.	
HEAD, FRANKLIN H.	

DECEASED.

ARMOUR, PHILIP D.	McCLURG, A. C.
BAKER, WILLIAM T.	McNALLY, ANDREW
BISSEL, GEORGE F.	PEARCE, J. IRVING
CRAWFORD, ANDREW	PETERSON, ANDREW
DAVIS, GEORGE R.	PULLMAN, GEORGE M.
FITZSIMONS, CHARLES	SCHNEIDER, GEORGE
HALE, WILLIAM E.	SCOTT, JAMES W.
JACKSON, HUNTINGTON W.	WALLER, R. A.
LEITER, L. Z.	WILLIAMS, NORMAN

LIFE MEMBERS.

- ADAMS, GEORGE E.
ALDIS, OWEN F.
- BARRETT, MRS. A. D.
BARRETT, ROBERT L.
BARRETT, S. E.
BARTLETT, A. C.
BLAIR, CHAUNCEY J.
BLAIR, WATSON F.
BOOTH, W. VERNON
BURNHAM, D. H.
BUTLER, EDWARD B.
- CARTER, JAMES S.
CARTON, L. A.
CHALMERS, WILLIAM J.
CRANE, R. T.
- DEERING, CHARLES
DRAKE, TRACY C.
- FARWELL, WALTER
FAY, C. N.
FIELD, STANLEY
FULLER, WILLIAM A.
- GARTZ, A. F.
GRISCOM, CLEMENT A.
GROMMES, JOHN B.
- HAMILL, ERNEST A.
HILL, LOUIS W.
HUGHITT, MARVIN
HUTCHINSON, C. L.
- INGALLS, M. E. [PORTER
ISHAM, MRS. KATHERINE
- JOHNSON, M.D., FRANK S.
JOHNSON, MRS. ELIZABETH
JONES, ARTHUR B. [AYER
- KEITH, ELBRIDGE G.
KING, FRANCIS
- KING, JAMES C.
KIRK, WALTER RADCLIFFE
- LAWSON, VICTOR F.
McCORMICK, MRS.
McCORMICK, CYRUS H.
McCORMICK, HAROLD F.
MacVEAGH, FRANKLIN
MITCHELL, J. J.
MURDOCH, THOMAS
- NEWELL, A. B.
- ORR, ROBERT M.
- PEARSONS, D. K.
PIKE, EUGENE S.
PORTER, GEORGE T.
PORTER, H. H.
PORTER, H. H., Jr.
- REAM, MRS. CAROLINE P
REAM, NORMAN B.
REVELL, ALEX. H.
RUSSELL, EDMUND A.
RYERSON, MRS. CARRIE H.
RYERSON, MARTIN A.
- SCHLESINGER, LEOPOLD
SCOTT, ROBERT S.
SINGER, C. G.
SMITH, BYRON L.
SMITH, ORSON
SPRAGUE, A. A.
SPRAGUE, OTHO S. A.
STURGES, GEORGE
- THORNE, GEORGE R.
TREE, LAMBERT
- WELLING, JOHN C.
WELLS, M. D.
WILLARD, ALONZO J.
WOLFF, LUDWIG

ANNUAL MEMBERS.

ADAMS, CYRUS H.
ADAMS, MILWARD
ALLERTON, ROBERT H.
AMBERG, WILLIAM A.
ARMOUR, GEORGE A.

BAILEY, EDWARD P.
BAKER, SAMUEL
BANGA, DR. HENRY
BARNES, CHARLES J.
BARRELL, JAMES
BEAUVAIS, E. A.
BECKER, A. G.
BELDEN, J. S.
BILLINGS, C. K. G.
BILLINGS, DR. FRANK
BIRKHOFF, GEORGE, JR.
BLAINE, MRS. EMMONS
BLAIR, HENRY A.
BOAL, CHARLES T.
BOTSFORD, HENRY
BOUTON, C. B.
BOUTON, N. S.
BRADWELL, JAMES B.
BREGA, CHARLES W.
BREMNER, DAVID F.
BREYFOGLE, WM. L.
BROOKS, JAMES C.
BROWN, GEORGE F.
BROWN, WILLIAM L.
BURLEY, CLARENCE A.
BURLEY, FRANK E.

CABLE, R. R.
CARPENTER, A. A.
CARPENTER, MYRON J.
COMSTOCK, WILLIAM C.
CONKLING, ALLEN
CONOVER, CHARLES H.
COOLBAUGH, MRS. ADDIE R.
COOLIDGE, CHARLES A.
COONLEY-WARD, MRS. L. A.
CORWITH, CHARLES R.

COWAN, W. P.
COX, ALFRED J.
CRANE, CHARLES R.
CUDAHY, JOHN
CUMMINGS, E. A.
CURTIS, D. H.

DAL, DR. JOHN W.
DAY, A. M.
DAY, CHAPIN A.
DEERING, JAMES
DEERING, WILLIAM
DELANO, F. A.
DEMMLER, K.
DILLMAN, L. M.
DUNHAM, MISS M. V.
DURAND, ELLIOTT
DWIGHT, JOHN H.

EDWARDS, J. A.
EISENDRATH, W. N.
EMMERICH, CHARLES

FAIR, R. M.
FARNSWORTH, GEORGE
FLANNERY, JOHN L.
FORSYTH, ROBERT
FRANK, HENRY L.
FRASHER, JOHN E. L.
FULLER, O. F.
FURST, CONRAD

GAYLORD, FREDERIC
GLESSNER, J. J.
GOODRICH, A. W.
GORDON, EDWARD K.
GRAHAM, E. R.
GREEN, E. H. R.
GREY, CHARLES F.
GREY, WILLIAM L.
GUION, GEORGE MURRAY
GURLEY, W. W.

HAMILTON, I. K.
HANECY, ELBRIDGE
HARDING, AMOS J.
HARRIS, GEORGE B.
HARRIS, JOHN F.
HARRIS, N. W.
HASKELL, FREDERICK T.
HERTLE, LOUIS
HITCHCOCK, R. M.
HOLDOM, JESSE
HOLT, GEORGE H.
HOPKINS, JOHN P.
HORNOR, ISAAC
HOSKINS, WILLIAM
HOUGHTLING, JAMES L.

INSULL, SAMUEL

JEFFERY, THOMAS B.
JENKINS, GEORGE H.
JONES, J. S.

KEEFER, LOUIS
KEENE, JOSEPH
KEEP, ALBERT
KEITH, W. SCOTT
KELLEY, WILLIAM E.
KENT, WILLIAM
KIMBALL, EUGENE S.
KIMBALL, MRS. MARK
KOEHLER, THOMAS N.

LAFLIN, ALBERT S.
LAMB, FRANK H.
LAWSON, VICTOR F.
LAY, A. TRACY
LEFENS, THIES J.
LEIGH, EDWARD B.
LINCOLN, ROBERT T.
LINN, W. R.
LLOYD, EVAN
LOEWENTHAL, B.
LOGAN, F. G.
LORD, J. B.
LOWDEN, FRANK O.
LYTTON, HENRY C.

McCREA, W. S.
McGUIRE, REV. H.
McLENNAN, J. A.

McWILLIAMS, LAFAYETTE
MACFARLAND, HENRY J.
MAGEE, HENRY W.
MANSON, WILLIAM
MANSURE, E. L.
MARKWALD, LIEUT. ERNST
MAY, FRANK E.
MAYER, DAVID
MAYER, LEVY
MEAD, W. L.
MERRICK, L. C.
MERRYWEATHER, GEORGE
MEYER, MRS. M. A.
MILLER, CHARLES P.
MILLER, JOHN S.
MIXER, C. H. S.
MOORE, L. T.
MOORE, N. G.
MORRIS, EDWARD
MORRIS, NELSON
MULLIKEN, A. H.
MULLIKEN, CHARLES H.

NATHAN, ADOLPH
NOLAN, JOHN H.
NORTON, O. W.
NOYES, LA VERNE W.

OEHNE, THEODORE
ORB, JOHN A.
ORTSEIFEN, ADAM
OSBORN, HENRY A.

PALMER, PERCIVAL B.
PARKER, FRANCIS W.
PATTERSON, W. R.
PEARSON, EUGENE H.
PECK, CLARENCE I.
PETERS, HOMER H.
PETERSON, WM. A.
PINKERTON, W. A.
PORTER, WASHINGTON

RANDALL, THOMAS D.
RAYNER, JAMES B.
REHM, JACOB
RIPLEY, E. P.
ROSENBAUM, JOSEPH
ROSENFELD, MAURICE
RUMSEY, GEORGE D.

RUNNELLS, J. S.
RYERSON, MRS. MARTIN

SCHAFFNER, JOSEPH
SCHMIDT, DR. O. L.
SCHMITT, ANTHONY
SCHWARTZ, G. A.
SEARS, JOSEPH
SEIPP, MRS. C.
SEIPP, W. C.

SELFRIDGE, HARRY G.
SELZ, MORRIS
SHEDD, JOHN G.
SHIPMAN, DANIEL B.
SHORTALL, JOHN G.
SKINNER, THE MISSES
SMITH, F. B.
SNOW, MISS HELEN E.
SOPER, JAMES P.
SOUTHWELL, H. E.
SPENCE, MRS. ELIZABETH E.
SPOOR, J. A.
STEELE, HENRY B.
STOCKTON, JOHN T.
STUART, ROBERT

TEMPLETON, THOMAS

TILTON, MRS. L. J.
TOBEY, FRANK B.
TRIPP, C. E.
TURNER, E. A.

UIHLEIN, EDWARD G.
UNZICKER, OTTO

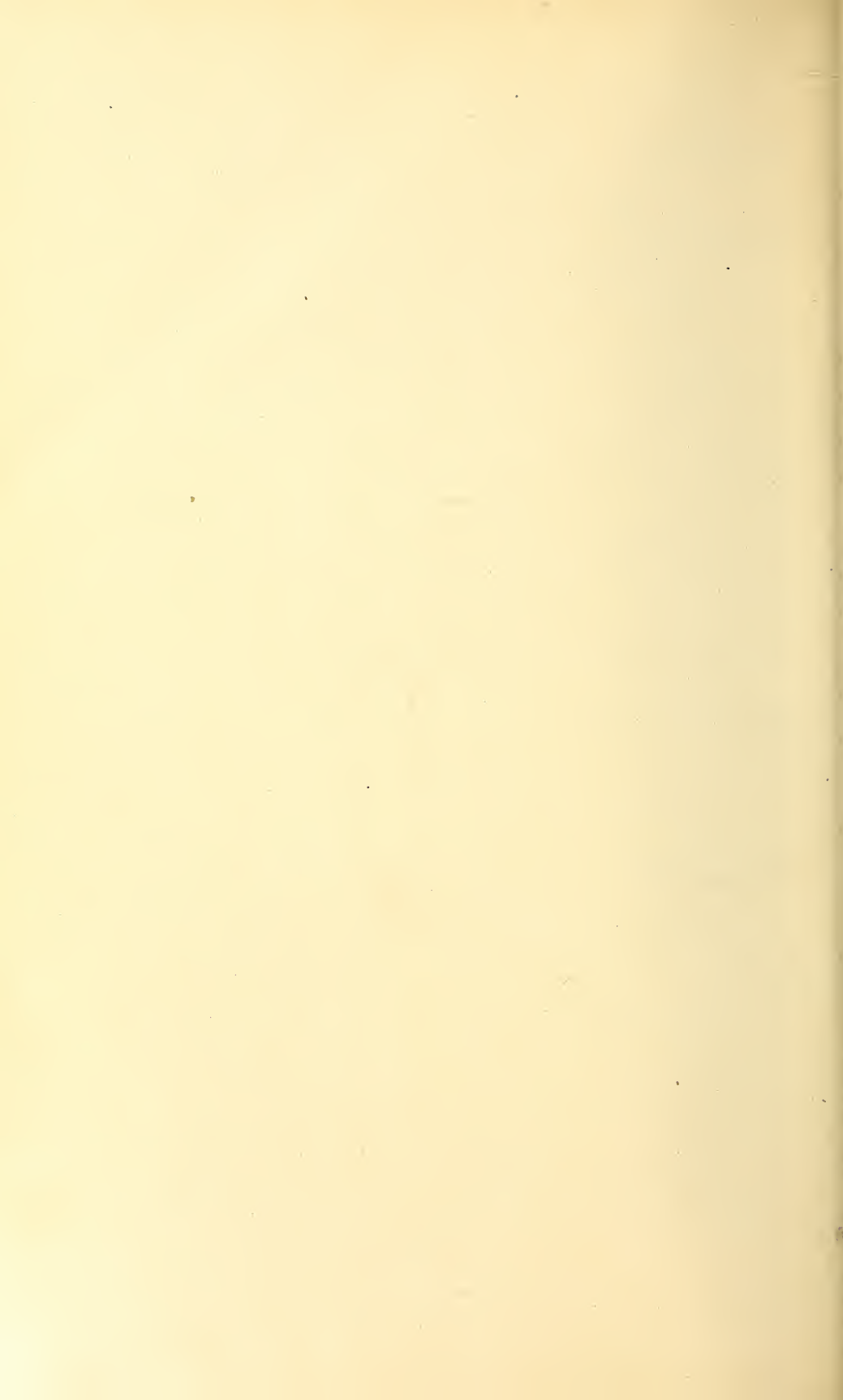
VIERLING, ROBERT

WACKER, CHARLES H.
WALKER, GEORGE C.
WALKER, JAMES R.
WALKER, WILLIAM B.
WALLER, EDWARD C.
WARNER, EZRA J.
WEBSTER, GEORGE H.
WHITE, A. STAMFORD
WHITEHEAD, W. M.
WILSON, E. C.
WILSON, M. H.
WOLF, FRED W.
WOOD, S. E.
WOODCOCK, LINDSAY T.
WOOSTER, CLARENCE K.

DECEASED.

BRAUN, GEORGE P.
MILLER, THOMAS

PALMER, MILTON J.
WICKES, THOMAS H.



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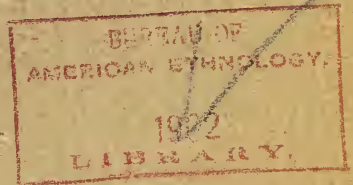
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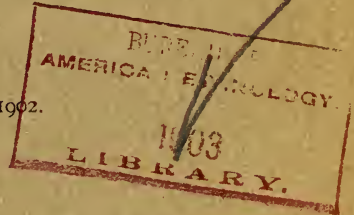
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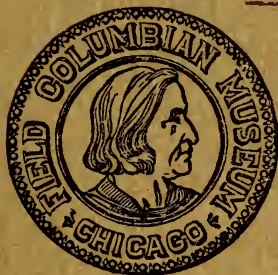
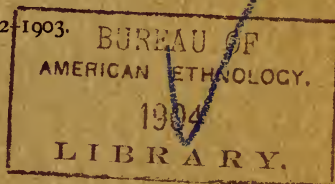
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