







1869

1918

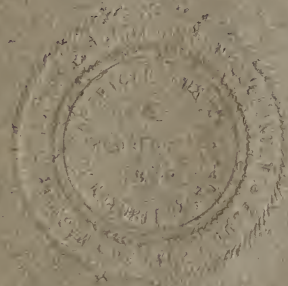
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THE AMERICAN MUSEUM OF NATURAL HISTORY

EDUCATION
EXPLORATION
RESEARCH and
PUBLICATION

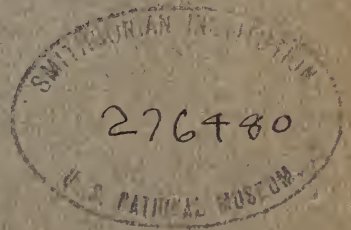
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FIFTIETH ANNUAL REPORT

THE YEAR 1918

NEW YORK
ISSUED MAY 1, 1919



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THE AMERICAN MUSEUM OF
NATURAL HISTORY

INCORPORATED IN 1869

*“For the purpose of establishing and maintaining
in said city a Museum and Library of Natural His-
tory; of encouraging and developing the study of
Natural Science; of advancing the general knowl-
edge of kindred subjects, and to that end of fur-
nishing popular instruction”*

BY

JOHN DAVID WOLFE

ROBERT COLGATE

BENJAMIN H. FIELD

ROBERT L. STUART

ADRIAN ISELIN

BENJAMIN B. SHERMAN

WILLIAM A. HAINES

THEODORE ROOSEVELT

HOWARD POTTER

WILLIAM T. BLODGETT

MORRIS K. JESUP

D. JACKSON STEWARD

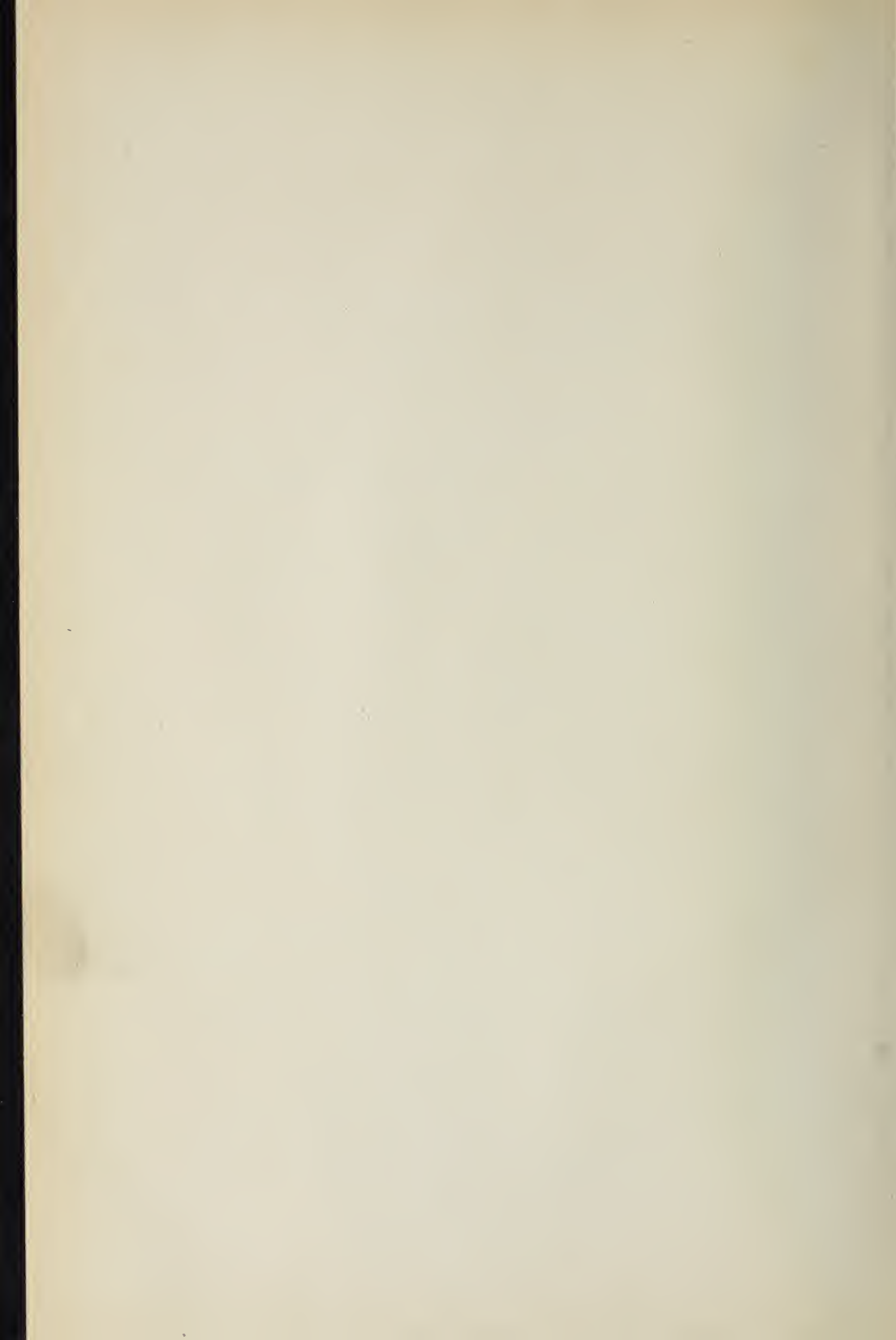
J. PIERPONT MORGAN

A. G. PHELPS DODGE

CHARLES A. DANA

JOSEPH H. CHOATE

HENRY PARISH



MEMBERSHIP

There are more than forty-five hundred members of the Museum, residents of the United States and other countries, who support its educational and scientific work and enjoy its lectures, publications and other privileges. The number of Members in each class is as follows:

Associate Members	512	Patrons	113
Annual Members	2,966	Associate Benefactors	21
Sustaining Members	89	Associate Founders	10
Life Members	793	Benefactors	5
Honorary Fellows	10	Founder	1
Fellows	48		

Full information regarding membership will gladly be furnished by the Secretary.

MEMBERSHIP FEES

Associate Members		Life Members	\$100
(annually)	\$3	Fellows	500
Annual Members		Patrons	1,000
(annually)	10	Associate Benefactors	10,000
Sustaining Members		Associate Founders	25,000
(annually)	25	Benefactors	50,000

MEMBERS OF THE MUSEUM ENJOY THE FOLLOWING PRIVILEGES:

- An Annual Pass admitting to the Members' Room.
- Complimentary tickets admitting to the Members' Room for distribution to their friends.
- Services of an Instructor for guidance through the Museum.
- Two course tickets to Spring Lectures.
- Two course tickets to Autumn Lectures.
- Current numbers of all *Guide Leaflets* on request.
- Complimentary copies of *Natural History*.

ADDRESS

SECRETARY OF THE AMERICAN MUSEUM
OF NATURAL HISTORY

77th Street and Central Park West

New York

FORM OF GIFT OR BEQUEST

I do hereby give and bequeath to "THE AMERICAN MUSEUM OF NATURAL HISTORY" of the City of New York,.....
.....

ENDOWMENT FUND

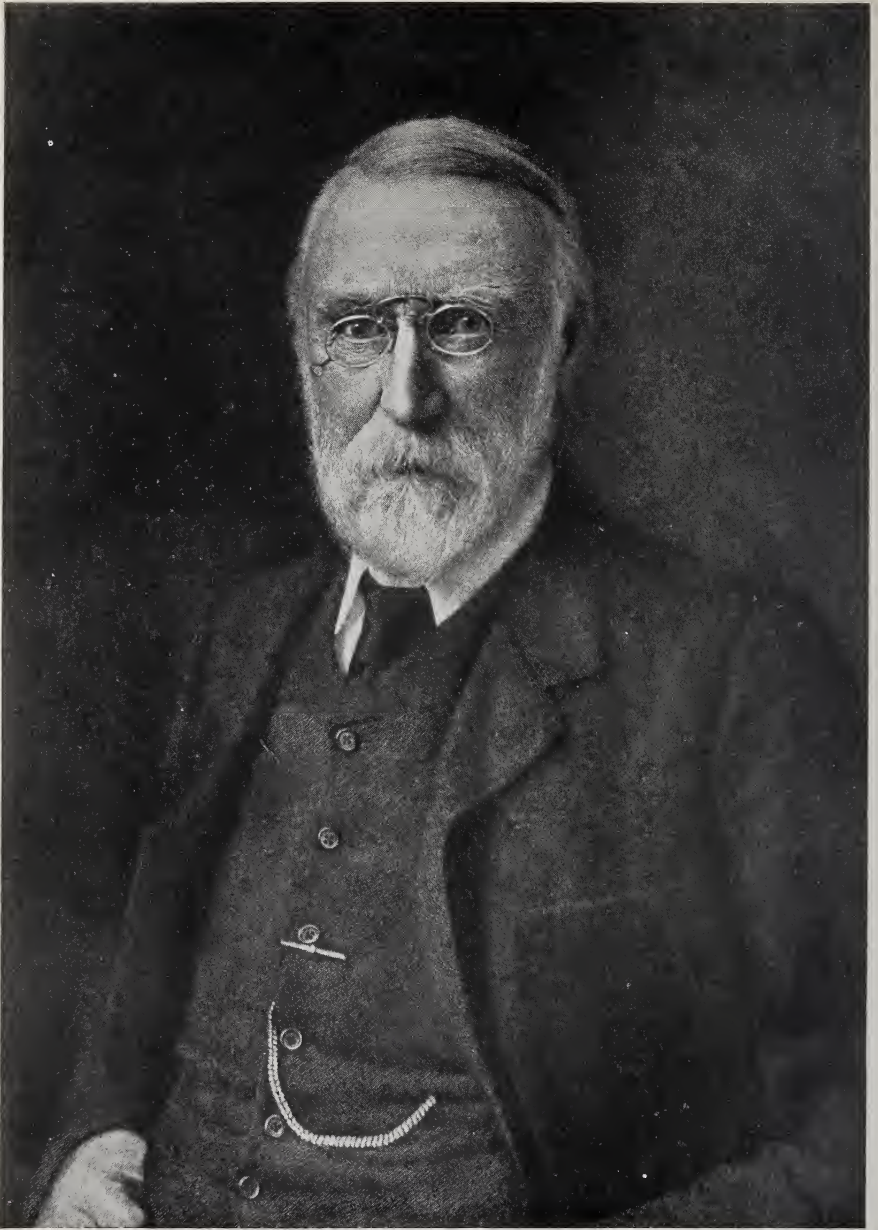
The Endowment Fund was established in 1884. The Trustees especially desire to insure the permanent growth and welfare of the Museum through an increase of the General Endowment Fund.

BUILDING FUND

The Building Fund was established in 1916. The Trustees desire to celebrate the Fifty-fifth Anniversary of the Founding of the Museum, namely, 1924, through the Completion of the Southern Half of the great building.

EXEMPT FROM TAXATION

Gifts and Bequests to The American Museum of Natural History are exempt from federal taxation, under the Federal Revenue Act of 1918.



DOCTOR JAMES DOUGLAS

Trustee of The American Museum of Natural History
1909-1918

With the Compliments of

Henry Fairfield Osborn

THE AMERICAN MUSEUM OF NATURAL HISTORY
NEW YORK

FIFTIETH ANNUAL REPORT
OF THE
TRUSTEES
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1918



FOR THE FREE EDUCATION
OF THE PEOPLE
FOR EXPLORATION, RESEARCH
AND PUBLICATION

NEW YORK
ISSUED MAY 1, 1919

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FOR 1919

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Sculpture and Architecture**

EDWIN H. BLASHFIELD DANIEL C. FRENCH
BRECK TROWBRIDGE

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THE MUSEUM

FOR 1919

Director

FREDERIC A. LUCAS

Assistant Secretary

GEORGE H. SHERWOOD

Assistant Treasurer

UNITED STATES TRUST COMPANY OF NEW YORK

Bursar

FREDERICK H. SMYTH

Superintendent of Building

J. B. FOULKE

Registrar

GEORGE N. PINDAR

Chief of Construction

H. F. BEERS

Chief Engineer

H. J. LANGHAM

SCIENTIFIC STAFF

FOR 1919

DIRECTOR

FREDERIC A. LUCAS, Sc.D.

GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

EDMUND OTIS HOVEY, Ph.D., Curator

CHESTER A. REEDS, Ph.D., Associate Curator Invertebrate Palæontology

MINERALOGY

HERBERT P. WHITLOCK, C.E., Curator

WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, B.S., Curator

INVERTEBRATE ZOÖLOGY

W. M. WHEELER, Ph.D., Honorary Curator

HENRY E. CRAMPTON, Ph.D., Curator

ROY W. MINER, A.B., Associate Curator

FRANK E. LUTZ, Ph.D., Associate Curator

A. J. MUTCHLER, Assistant

WILLARD G. VAN NAME, Ph.D., Assistant

FRANK E. WATSON, B.S., Assistant

ICHTHYOLOGY AND HERPETOLOGY

BASHFORD DEAN, Ph.D., Honorary Curator

JOHN T. NICHOLS, A.B., Associate Curator Recent Fishes

MARY CYNTHIA DICKERSON, B.S., Associate Curator Herpetology

G. K. NOBLE, A.B., A.M., Assistant Curator Herpetology

KARL P. SCHMIDT, A.B., Assistant Herpetology

MAMMALOLOGY AND ORNITHOLOGY

J. A. ALLEN, Ph.D., Curator

FRANK M. CHAPMAN, Sc.D., Curator Ornithology

ROY C. ANDREWS, A.M., Associate Curator Mammalogy

W. DEW. MILLER, Associate Curator Ornithology

H. E. ANTHONY, B.S., Associate Curator Mammalogy

HERBERT LANG, Assistant Curator Mammalogy

JAMES P. CHAPIN, A.M., Assistant Ornithology

LEO E. MILLER, Assistant Ornithology

SCIENTIFIC STAFF FOR 1919—*Continued*

VERTEBRATE PALÆONTOLOGY

HENRY FAIRFIELD OSBORN, LL.D., D.Sc., Honorary Curator
W. D. MATTHEW, PH.D., Curator
WALTER GRANGER, Associate Curator Fossil Mammals
BARNUM BROWN, A.B., Associate Curator Fossil Reptiles
WILLIAM K. GREGORY, PH.D., Associate in Palæontology

ANTHROPOLOGY

CLARK WISSLER, PH.D., Curator
PLINY E. GODDARD, PH.D., Curator Ethnology
ROBERT H. LOWIE, PH.D., Associate Curator
HERBERT J. SPINDEN, PH.D., Assistant Curator
N. C. NELSON, M.L., Assistant Curator
CHARLES W. MEAD, Assistant Curator
LOUIS R. SULLIVAN, A.M., Assistant Curator
LESLIE SPIER, B.S., Assistant

ANATOMY AND PHYSIOLOGY

RALPH W. TOWER, PH.D., Curator
CHARLES F. HERM, Assistant

PUBLIC HEALTH

CHARLES-EDWARD A. WINSLOW, D.P.H., Curator
THOMAS G. HULL, PH.D., Assistant

PUBLIC EDUCATION

GEORGE H. SHERWOOD, A.M., Curator
G. CLYDE FISHER, PH.D., Associate Curator
ANN E. THOMAS, PH.B., Assistant

BOOKS AND PUBLICATIONS

RALPH W. TOWER, PH.D., Curator
IDA RICHARDSON HOOD, A.B., Assistant Librarian

RESEARCH ASSOCIATES

M. D. C. CRAWFORD, Textiles, Anthropology
W. ELMER EKBLAW, A.M., Geology
ALESSANDRO FABBRI, Physiology
GEORGE BIRD GRINNELL, PH.D., Ethnology
GEORGE F. KUNZ, PH.D., Mineralogy
CHARLES W. LENG, B.S., Coleoptera
J. HOWARD MCGREGOR, PH.D., Anthropology
BARRINGTON MOORE, M.F., Forestry
A. L. TREADWELL, PH.D., Annulata

FIFTIETH ANNUAL REPORT

To the Trustees and Members of The American Museum of Natural History, and to the Municipal Authorities of the City of New York:

It has become necessary to postpone the celebration of the *Fiftieth Anniversary of the Founding of the Museum* for five years, namely, until 1924. It is desirable to consider various ways and means whereby this celebration may mark the completion of the entire southern half of the Museum as planned between 1870 and 1875, and officially approved for the City by the Department of Parks on September 17, 1875. This will mark the period of half a century since the building was actually begun by the City.

It is desirable to include in these new plans special facilities for the teachers and pupils of the free public educational institutions of the City, as provided for in the Fourth Clause of the Contract with the Department of Parks, which was drawn in connection with the occupancy of the first building (completed in 1877) and which was signed February 12, 1878. The language of this clause is as follows:

Fourthly.—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

It is also desirable to offer the City and the State of New York an opportunity to erect the *Main Central Building* of the eastern façade, facing Central Park, as a memorial to THEODORE ROOSEVELT, both as Governor of the State of New York and as President of the United States. If the erection of such a Memorial by the City and State shall meet with popular approval, and shall have the support of the Governor of the State and of the Mayor of the City of New York, the Trustees may well surrender all plans for using this building for exhibition purposes, although it will adjoin the *Asiatic Hall* on the south and the *African Hall* on the west, the latter especially connected with Theodore Roosevelt's life as an explorer and naturalist.

Theodore Roosevelt's father in 1869 brought together the group of men who founded the Museum. Theodore Roosevelt himself spent hours of his boyhood in the Museum and in the closing years of his life led the Museum's expedition to South America and made important contributions not only to our collections but to our scientific publications. This Memorial would inspire the youth of America with Roosevelt's great example as a nature lover, naturalist, explorer and exponent of the great lessons which nature has to teach us.

A summary of the general progress of the Museum in the last fifty years shows that the great Museum building projected in 1870 is about one-fourth completed; that during this period the Trustees, Members and friends of the Museum have contributed gifts and collections valued at \$7,250,000, while the contributions to the Permanent Endowment Fund have been \$7,322,707. In the meantime, the taxpayers of the City of New York have contributed \$5,318,820 for building and \$4,241,492 for maintenance. The General or Unrestricted Endowment, which may be devoted to the general progress of the Museum, is now approximately \$1,300,000, while during the last year and a half additional bequests to the institution for general purposes amount to \$2,105,000, including Mrs. Russell Sage's bequest of \$1,600,000. It is fortunate that the full amount of these be-

quests will be realized through the recent action of Congress in repealing the iniquitous Federal Tax on educational bequests imposed by the laws of 1916 and 1917.

The financial, material and scientific accomplishments of fifty years may be summed up as follows:

Total expenditure for building by the City of	
New York	\$5,318,820
Total expenditure for maintenance by the City of	
New York	4,241,492
Total gifts to Endowment by Trustees, Members and friends of the Museum	7,322,707
Total contributions and gifts to the collections, publications and scientific work of the Museum	7,250,000
Total number of exhibition halls at the present time ..	35
Total exhibition area	271,886 sq. ft.
Total number of professional or Scientific Staff, 1918.	54
Total number of employees, 1918	340
Total number of volumes of publications issued by the Museum (<i>Bulletins, Memoirs, Monographs, Special Publications</i>)	90
Total number of American Museum Members, 1918..	4,568
Average number of visitors annually for the last ten years	806,005
Average number of school children reached annually for the last ten years.....	1,121,799

The development of the Museum during the next five years in preparation for its Golden Jubilee will, we trust, include three great features, namely, extension of building, firm foundation of popular municipal maintenance, and increase of our general or unrestricted endowment fund to \$5,000,000, the amount needed to place the Museum on a financially sure foundation for the coming quarter of a century.

THE MUSEUM'S CONTRIBUTION TO VICTORY

Owing to the number and variety of specialists in its many departments, the Museum was able to render a very real and valuable service, not only to the United States but to the Allies in general. The various preparedness and food utilization and conservation exhibits drew crowds of people eager to see how they could safeguard and improve their health, and how to obtain the most nourishing and attractive food at the lowest cost. Special exhibits of insects and their work, and the publication of leaflets on insect pests and insects and gardens opened up another large field for service—nor was the public

slow to avail itself of new opportunities for learning how to extend the crops of its war gardens. The Mandan Corn movement started by the Museum in 1917 continued to gain in strength. The luncheon given by the President to demonstrate the food value of whale meat was nation-wide in its influence.

At the time of the signing of the Armistice, November 11, 1918, the Museum's Honor Roll numbered sixty-eight names, and included all branches of military and naval service, also the Red Cross and other activities. The record of these enrolled men, whether floor attendants, preparators, scientific staff members or trustees, is without exception one of which the Museum is justly proud.

**Museum
Men in
Service**

Conspicuous service was rendered the cause by our Treasurer, Mr. H. P. Davison, as Chairman of the Red Cross War Council; by Dr. Frank M. Chapman, as Director of the Bureau of Publications of the American Red Cross, and later as Red Cross Commissioner to South America; by Dr. Bashford Dean as Major in Ordnance; by Dr. Henry E. Crampton as Vice-Chairman of the Committee on Engineering and Education of the Advisory Commission of the Council of National Defense; by Dr. C.-E. A. Winslow as member of the American Red Cross Mission to Russia; by Major Barrington Moore in the Forestry Service in France; and by Messrs. Andrews, Anthony, Akeley, Brown, Chapin, Cherrie, Eastman, Fabbri, Hull, Miller, Spinden and Sullivan.

We are equally proud of the service of the men of the ranks. All honor to Sergeant Charles A. Connolly, the only member of the Museum family who paid the great price for victory. His grave, near Château-Thierry, is to be marked with a grove of fruit trees, to be planted by the Museum. Our heartiest welcome goes out to those who are returning, especially to Chris Schroth, who brings back the Croix de Guerre, to John O'Neill, Albert J. Kelly, Benjamin F. Connolly, Arthur W. Henn, Joseph S. McGarty and Laurence Ferri, all bearing honor wounds. Throughout the period of the war, the Trustees have paid to these employees the difference between the Federal

salary and the Museum salary, and now that the work has been done and well done, are glad to have them return to their former positions.

While only one of the women of the Museum, Miss Marjorie A. Mallory, was called for service over seas, those who have remained behind have made a substantial contribution to the great cause. The American Museum War Relief Association, composed of employees of the Museum and members of their immediate families, has issued a summary of what has been accomplished since its organization in May, 1917. Among its activities is the work of three departments under the Red Cross, which have devoted themselves to the preparation of 920 bandages and 28,755 surgical dressings and the making of 688 hospital garments and 331 knitted articles. Garments knitted for other organizations than the Red Cross totaled 1,015. The total amount of money raised from Museum employees and other sources was \$2,666.81. The Association also collected more than two tons of clothing for Belgium and France.

Since September, 1917, Local Board, Division No. 129, of the Provost Marshal General of the War Department, has been quartered at the Museum, the Visitors' Room, the Academy Room and the West Assembly Room being placed freely at their disposal. The work of this Board has been especially commended for its thoroughness and efficiency by the Secretary of War. The *Departments of Anthropology and Physiology* coöperated with Dr. Jesse G. M. Bullowa, the examining physician of the Board, in the physical examination of the drafted men, with the result that the reports from this Board were more complete and thorough than from any other district.

The *Department of Public Education* continued its coöperation with the Y. M. C. A. in supplying lantern slides and lectures. During the year, 27 lecture sets, comprising nearly 1,700 slides, and also more than 3,000 miscellaneous slides, were prepared for the Y. M. C. A. for use in the encampments

at home and abroad. The department has also furnished guides for all soldiers and sailors who desired to be shown around the Museum. This service is being extended in connection with the recently established Hospitality Room. The *Library*, in coöperation with the American Library Association, sent copies of *The American Museum Journal* to all encampments in this country, and, through the Publicity Committee, invitations to visit the Museum, guides, and other literature have been distributed to the camps and recreation centers in the vicinity of New York City.

The Museum, through Associate Curator Roy W. Miner of the *Department of Invertebrate Zoölogy*, coöperated with Dr. Robert Underwood Johnson, President of the New York Committee of the Italian War Relief Fund of America, in the work of examination, selection, and preparation for shipment of a number of compound microscopes suitable for bacteriological work, to be forwarded to Italy for use in the field hospitals.

The Food Conservation Exhibit, prepared by the *Department of Public Health*, was shown in coöperation with the New York State and Federal Food Commissions at the Grand Central Terminal in April and May. The United States Department of Agriculture pronounced it the best food exhibit yet prepared, and it has been studied and copied by food educators from widely separated localities.

The Liberty Field Hospital Ward, designed and constructed under the direction of President Osborn, by Chief of Construction H. F. Beers, has been exhibited in the Museum, at the Grand Central Palace and at the Pacific Coast Land and Industrial Exposition at Oakland, California.

Plans for a Reconstruction Hospital, to be connected with the laboratories and exhibition halls of the Museum, for the accommodation of several hundred wounded men, were worked out by Mr. Carl E. Akeley, with the approval of the Surgeon General's Office. The sudden cessation of the war brought this project to a close.



LIBERTY FIELD HOSPITAL UNIT MODEL

Designed and constructed under the direction of President Henry Fairfield Osborn,
by Chief of Construction Harry F. Beers



GROWTH OF GENERAL ENDOWMENT

The scientific work of the Museum has been well provided for through the munificent bequests of Mr. and Mrs. Morris K. Jesup. By the terms of Mr. Jesup's will, his bequest was strictly for the benefit of scientific exploration, research, preparation, exhibition and publication. The educational work of the Museum, the contact with the public and the relations with the public schools are all inspired by this purely scientific work, yet they cannot legitimately draw support from the Jesup Endowment. It is therefore to the *General Endowment* that we look for the means to extend this service to the people.

It is very gratifying to report that during the past three years several important gifts or bequests to the General Endowment have been received, as follows:

In 1916, Margaret Olivia Sage, a special endowment for Ornithology	\$10,000
Estate of Emil C. Bondy	10,000
In 1918, Estate of Anson W. Hard, for the development of the Library	5,000

Bequests to the General Endowment, now in process of settlement or pending:

Estate of:	
Charles E. Rhinelander (estimated)	\$20,000
Amos F. Eno	250,000
Helen C. Juilliard	50,000
David Lydig (contingent)	10,000
Emil Wolff (stock value)	5,000
Ludwig Dreyfus	10,000
Louisa Combe (estimated)	50,000
James Douglas	100,000
Margaret L. Baugh, for Anthropology	10,000
Mrs. Russell Sage (estimated)	1,600,000
	\$2,105,000

Even if the Museum should realize full value on all these bequests, the added income would be little more than sufficient to meet the present general running expenses, for the personal

cash contributions of the Trustees annually almost equal the income on \$1,000,000, while the deficiency of the City Maintenance appropriation is more than the interest on a one-million-dollar endowment. Consequently, while these noble bequests swell the General Endowment to more than \$3,000,000, an additional \$2,000,000 is required to put the Museum on a secure financial footing for its general purposes.

The munificent bequest of Mrs. Russell Sage is by far the largest which the Museum has received for its general work.

It was accompanied by the following provision
Sage
Bequest in Mrs. Sage's will:

"It is my desire that each religious, educational or charitable corporation which may receive a share of my residuary estate shall use the whole or a part of the legacy received by it for some purpose which will commemorate the name of my husband, but I simply express this as a desire and do not impose it as a condition of my gift."

This bequest furnishes a striking and convincing example of the disastrous effect of the law of September 8, 1916, imposing a tax on bequests to education and philanthropy, instead of exempting them from taxation as in all former legislation of the
Repeal of
Tax on
Education Government.

Under Mrs. Sage's will the Museum is to receive two shares of the residuary estate estimated as \$1,600,000, out of a total residuary estate of \$41,600,000. The Federal Estate Tax would amount to \$12,652,500, but the loss through forced liquidation to pay the tax is estimated as \$3,643,400. Thus the total reduction of the residuary estate would amount to \$16,295,900, or approximately 40%. Hence, instead of receiving the \$1,600,000 of the original bequest, the Museum would receive only \$960,000.

In 1917, through a General National Committee,* of which I had the honor to be Chairman, a vigorous effort was made to have this law repealed, with respect to the taxation of bequests or gifts to educational, philanthropic and religious insti-

* See Annual Report of the President for 1917, pages 20-24.

tutions. An amendment introduced by Senator Henry L. Myers of Montana, providing for total exemption, was defeated, but an amendment introduced by Senator Henry F. Hollis, exempting gifts to an amount not in excess of 15 per cent. of the taxpayer's taxable income, was passed. Encouraged by this action, the National Committee, in coöperation with the Special Committee, of which Professor Samuel McCune Lindsay of Columbia University was Chairman, renewed their efforts to have this iniquitous legislation repealed. At the request of the Committee, Mr. Lewis Cass Ledyard prepared a brief, reviewing State and Federal tax laws, and pointing out the disastrous effect of the existing law on the Sage Bequests. Copies of this brief were sent to all the members of the Senate Finance Committee and the Ways and Means Committee of the House. The New York Committee appointed Professor Lindsay its representative at Washington. The final result is most gratifying. The Revenue Bill, adopted by the Senate and House, reads:

Sec. 403. That for the purpose of the tax the value of the net estate shall be determined—

(a) In the case of a resident, by deducting from the value of the gross estate—

(1) ***

(2) ***

(3) The amount of all bequests, legacies, devises, or gifts, to or for the use of the United States, any State, Territory, any political subdivision thereof, or the District of Columbia, for exclusively public purposes, or to or for the use of any corporation organized and operated exclusively for religious, charitable, scientific, literary, or educational purposes, including the encouragement of art and the prevention of cruelty to children or animals, no part of the net earnings of which inures to the benefit of any private stockholder or individual, or to a trustee or trustees exclusively for such religious, charitable, scientific, literary, or educational purposes. This deduction shall be made in case of the estates of all decedents who have died since December 31, 1917;

This retroactive application of the law will enable the Museum to reap the full value of the Sage Bequest and the Douglas Bequest.

THE PEOPLE SHOULD MAINTAIN THE MUSEUM

The tablet in the Entrance Hall of this institution bears the following inscription :

THE MUSEUM BUILDING
ERECTED AND MAINTAINED
BY THE
PEOPLE OF NEW YORK

At the present time this tablet does not express the truth. For reasons of economy the Board of Estimate and Apportionment felt compelled to reduce the maintenance appropriation of the Museum for the year 1919 to \$200,000, which was \$40,000 less than the amount needed. This has obliged the Trustees and friends of the Museum, in order to keep the building open for *part time operation*, to make cash contributions totaling \$65,000, to meet the deficiency of \$40,000 in maintenance and to advance the scale of wages and salaries in the Museum to a point commensurate with the wages and salaries paid in other departments of the City. In our opinion it is in the best interests of the people of this City that they should make the sacrifice necessary to continue building and to provide annually the maintenance for this great educational institution. The Trustees have made a mistake, to our mind, in annually making up maintenance deficiencies from contributions of unrestricted funds. The institution should be maintained in the future in the spirit of the Contract of 1878 between the Museum and the City, namely, that the City pay for the operating expenses, while the Trustees pay for the collections and all the scientific work. In recent years the Trustees have drawn so largely upon their own funds for maintenance purposes that the growth of the scientific collections and exhibitions has been held back, with the result that the people of the City of New York are the ultimate sufferers.

Through a like policy, the New York Public Library and the Metropolitan Museum of Art are making similar inroads on the income from their endowment funds to meet current ex-

penses, instead of purchasing books, pictures and works of art ; in the end this means the deprivation of the people.

The expenditures for the maintenance of the Museum by the people have increased far less rapidly than the expenditures of the City departments: while the *per capita* cost of the City government has *increased* more than 30 per cent. in the last twenty years, the *per capita* cost of maintenance of the Museum has *decreased* 8 per cent. Inasmuch as the work of the Museum for the education of the people is in no sense a luxury, it is reasonable to expect that maintenance costs shall increase proportionately with the costs of the City government. In general we may regard the reduction of the maintenance appropriation for the Museum as in reality a reduction of expenditures for education, and any city with the wealth of New York ought to provide liberally for education. At the present time the taxpayers of the City of New York are paying less than one-third of the annual cost of the American Museum and its work. If the taxpayers really understood the situation, they would support the City government in granting larger maintenance appropriations.

The people of the City would take more interest and pride in an institution to which they partly contributed and for which they made some sacrifice. Therefore, it should be a part of the future policy of the American Museum to place the cost of maintenance entirely upon the taxpayers of the City of New York and not to continue individual contributions or subscriptions for this purpose. It appears that to continue the administration of the Museum as a thoroughly democratic institution, designed for the welfare of all the people, and open free to the public at all times, the people should participate in its support from public funds, and that the maintenance of its school and other educational facilities should not be a matter of private gift. This is the spirit of the original Charter, of the original Contract and of all subsequent modifications and additions to this Contract.

**Comparative
Cost of
Museum**

**Future
Maintenance
Policy**

In order to avoid any future misunderstanding, it is desirable that the proper distribution of maintenance expenses should be determined on principles to be established by the Trustees in consultation with the Comptroller and the President of the Department of Parks, subject to ratification by the Board of Estimate and Apportionment. The President has had repeated conferences on this subject with the Comptroller and other representatives of the Board of Estimate and Apportionment, and is seeking to secure from the Mayor and the Board of Estimate and Apportionment their judgment and advice as to the future policy of the City in this very important matter of democratic administration. Conferences will also be held with President Somers and other members of the Board of Education. The reduction of the maintenance appropriation, together with the urgently needed increases in scientific and administrative salaries and the advance in the costs of all materials purchased by the Museum, increases varying all the way from 20 per cent. to 64 per cent., render necessary the consideration of the future scientific activity of the Museum.

EXPLORATION, RESEARCH AND PUBLICATION

Although the field exploration of the Museum was in general suspended until after the war, it was found expedient to continue on a small scale certain explorations in China as well as in various parts of North and South America. The year, however, has been one of the most active in the entire history of the Museum in research and in publication, which was mainly supported through the generous provision of the Morris K. Jesup Fund.

China Mr. Roy C. Andrews sailed for China on June 28 to take up the work of the Second Asiatic Zoological Expedition. Mr. Andrews will make studies and collections in the Gobi Desert, a region little known to the naturalist.

The Third Asiatic Zoölogical Expedition left San Francisco on July 27, under the leadership of Mr. Paul J. Rainey, accom-



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

TIMBER WOLF GROUP

panied by Mr. Edmund Heller as naturalist; the entire expense of the expedition was borne by Mr. Rainey.

Mr. Earl H. Morris, assisted by Mr. B. T. B. Hyde, continued the excavation of the Indian ruins at Aztec, New Mexico.

**American
Archæology** These ruins are yielding valuable collections and historic data, which make this piece of research work one of the most important that the Museum has ever undertaken in anthropology. These explorations are made possible through the contributions of Mr. Archer M. Huntington.

Mr. Leslie Spier made archæological explorations in Arizona, visiting the Fort Apache Indian Reservation in the White Mountains, and the Rio Verde Valley. He also visited the Havasupai Indians for the purpose of making ethnological studies and collections.

Dr. Herbert J. Spinden returned in December from an expedition of eighteen months in Central America and the United States of Colombia. His work was entirely successful, especially along the lines of decorative art, in which connection he secured important archæological and ethnological collections.

**Zoölogy and
Palæontology** During the summer, Mr. Roy W. Miner and other members of the Department of Invertebrate Zoölogy spent several weeks at Woods Hole, Massachusetts, making field studies for the Bryozoan Group for the Darwin Hall.

Mr. Walter Granger completed the exploration of the Huerfano Basin, Colorado, and secured a very interesting fauna, which links up the Lower Eocene and the Middle Eocene.

Three months were spent by Mr. Albert Thomson in exploration of the Snake Creek deposits in western Nebraska, where he obtained a considerable number of fossil mammals, including skulls of a very large rhinoceros and a rare and interesting rodent.

It is an auspicious coincidence that the first volume of the publications of the American Museum Congo Expedition appears at the time of the release of Belgium from the oppression

of war, and that the Museum is in a position to send to the Belgian Government a report on the achievements of the Congo Expedition, which, it will be recalled, was instituted with the financial and political support of the Belgian Government in 1908. It is proposed to publish these reports under the general title, "Zoölogy of the Belgian Congo," and to issue a series of eight to ten volumes composed of articles contributed to current numbers of the American Museum *Bulletin* by members of the Museum staff and by other foremost naturalists and specialists of this country. When the various groups of animals are fully reported on, the reports will be gathered into volumes according to their taxonomic groups, that is, the papers on mammals will be published together, the papers on birds, and so forth.

**Publications
of the Congo
Expedition**

MEMBERSHIP AND STAFF

At the Annual Meeting, held February 4, 1918, Mr. William Averell Harriman was elected a Trustee in the Class of 1921, to fill the vacancy due to the death of Seth Low.

Through the death of Dr. James Douglas on June 25, 1918, the Museum lost another of its most honored members.

Trustees

The Trustees of the Museum, at their regular meeting on November 11, 1918, adopted the following minute and ordered it suitably engrossed:

Doctor James Douglas became a member of the Board of Trustees on November 8, 1909, and at once showed a very active and intelligent interest in the development of the Museum. His principal solicitude was for the development of our collection of minerals, the anthropology of the southwest, and the future educational influence of the Museum, especially in applied and economic mineralogy.

The Museum is deeply indebted to Doctor Douglas for his princely donation of the model of the Copper Queen Mine, which is the most perfect example of an educational exhibit of this character.

It was on the public educational side that his thoughts

dwelt most frequently. He believed that the Museum was doing invaluable educational work among the youth of the City. He expressed this thought to the President especially in connection with his contribution of \$100,000 to the Building Fund, which came in the form of a check the day after the appeal for funds was sent out by the Trustees. This gift greatly hastened the other contributions and is now held as the nucleus of our Building Fund of \$1,000,000.

Doctor Douglas finally manifested his devotion to the Museum and faith in its future by his bequest of \$100,000. His contributions, amounting to \$211,500, constitute him one of the most generous of our Benefactors.

He loved to visit the Museum and often gave to the President and the Curator of Geology the benefit of his unsurpassed experience in the field of pure and applied science. We shall greatly miss his genial and inspiring presence.

Pursuant to the action of the Board of Trustees, the President prepared a Memorial Volume reviewing the long service of the Honorable Joseph H. Choate to the Museum. This has been printed in quarto, comprising thirty-four pages. A copy was presented to Mrs. Choate and duplicate copies have been sent to the Trustees. Copies have also been deposited in the New York Public Library, in the Metropolitan Museum of Art, in the Harvard Club of New York City, with the Association of the Bar, New York City, with the Century Association, New York City, in the Library of The American Museum of Natural History, in the Library of Congress at Washington, in the Boston Public Library, at Harvard University, Cambridge, Mass., and in the Salem Public Library, Salem, Mass.

**Choate
Memorial
Volume**

The Scientific Staff for the year 1918 numbered 54. Of these, 15 members have been directly engaged in the Federal Service, while many of the others have indirectly contributed to the winning of the war by furnishing expert information.

**Scientific
Staff**

On April 17, Mr. Herbert P. Whitlock was appointed Curator of Mineralogy.

Dr. Robert H. Lowie returned from the University of California, where he had been acting as Associate Professor of Anthropology during the academic year 1917-1918, in exchange with Dr. A. L. Kroeber, who became Associate Curator in the Department of Anthropology in the Museum, January 1-July 1, 1918.

Dr. Herman K. Haeberlin, appointed in July, 1917, as an Assistant in the Department of Anthropology, died in Cambridge, Massachusetts, on February 12, 1918. Dr. Haeberlin was a young man of great promise, particularly fitted for anthropological investigation.

On April 17, Mr. B. Talbot B. Hyde was appointed temporary assistant in the Department of Anthropology for nine months, beginning April 1.

PUBLIC ACTIVITIES OF THE STAFF

The participation of the men of the Staff in the affairs of the City, State and Nation bears eloquent testimony to the widening influence of the Museum. Recognition of this public service has been evidenced in many ways during the year.

The Geological Society of France awarded President Osborn the Gaudry Medal, which was established by the Society in 1910 in honor of the distinguished palæontologist Albert Gaudry. Previous awards of the medal have been made to the following geologists and palæontologists: Albert Gaudry, 1910; Marcellin Boule, 1911; Henri Douville, 1912; Edouard Suess, 1913; Emile Haug, 1914; Charles D. Walcott, 1917.

The President was honored by the Royal Society of London, in having conferred on him the Darwin Medal for Distinction in Research Work in Vertebrate Morphology and Palæontology.

At the session of the Royal Irish Academy on March 16, President Osborn was elected an Honorary Member of the Academy, in recognition of his distinguished services in the Department of Science.

The National Academy of Sciences at its April meeting

awarded to Dr. Frank M. Chapman, Curator of Ornithology, the first Daniel Giraud Elliot medal and honorarium. These are to be bestowed annually for preëminence in zoölogy or palæontology under the terms of the gift to the Academy, in 1916, of \$8,000, by Miss Margaret Henderson Elliot to establish a fund in memory of her father. The result of Dr. Chapman's valuable contribution to Zoölogy, "The Distribution of Bird Life in Colombia; a Contribution to a Biological Survey of South America," was published in 1917 as Volume XXXVI of the *Bulletin* of The American Museum of Natural History. Although Dr. Chapman described therein a very large number of species and subspecies of South American birds, it was for the scientific value of his deductions and the establishment of zonal and faunal boundaries over a wide geographical range that the decision was made in his favor.

New York University conferred the honorary degree of Doctor of Public Health on Dr. Winslow.

Mr. Roy C. Andrews was elected a Corresponding Member of the Zoölogical Society of London at its meeting on December 19, 1917.

The Angrand Foundation of France has awarded a prize of five thousand francs to Dr. Herbert J. Spinden, in recognition of his memoir on Maya Art, published by the Peabody Museum of Harvard University. This prize is awarded once in five years for original investigations in the anthropology of North and South America.

The Galton Society for the Study of the Origin and Evolution of Man was organized at the Museum on April 16. The first formal meeting was held at the home of Professor Osborn on the evening of April 17. Dr. W. K. Gregory was elected Secretary.

Dr. F. A. Lucas, Dr. E. O. Hovey, Mr. Roy W. Miner and Miss Ann E. Thomas represented the Museum at the meeting of the American Association of Museums in Springfield, Massachusetts, May 20-22.

Dr. Ralph W. Tower and Miss Mary C. Dickerson were the official representatives of the Museum at the meeting in celebration of the 175th anniversary of the birth of Abbé René Just Haüy, the great French crystallographer (1743-1822).

The meeting was held on February 28 at the Museum, in coöperation with the delegates from the New York Academy of Sciences, Section E of the American Association for the Advancement of Science, and the New York Mineralogical Club. A paper written by the late Louis P. Gratacap for the occasion was read.

Dr. Robert H. Lowie represented the Museum at the Fiftieth Anniversary of the University of California, during the week of March 23.

At the meeting of the Entomological Society of America, held in Baltimore in December, Dr. Frank E. Lutz was elected a member of the Executive Committee.

At the annual meeting of the American Anthropological Association, held in Baltimore in December, Dr. Clark Wissler was elected President of the Association and Dr. Pliny E. Goddard was reelected Editor.

At the fourth meeting of the American Society of Ichthyologists and Herpetologists, held at the Brooklyn Museum, on November 15, Dr. Bashford Dean was elected a Vice-President and Mr. John T. Nichols Secretary.

Dr. Hovey represented the Museum at the annual meeting of the Geological Society of America, in St. Louis, December 27-29, 1917.

Dr. C.-E. A. Winslow was appointed consulting expert on industrial hygiene to the United States Public Health Service, and was in charge of a squad of men studying conditions affecting the health and efficiency of munition workers.

Dr. Winslow served as a member of two of the subcommittees of the Medical Advisory Board of the Council of National Defense, in connection with nursing and child hygiene.

In June and July, Dr. Winslow was in charge of the courses in bacteriology and hygiene at Vassar College Training Camp for Nurses. In August he gave an intensive course in industrial hygiene at the Massachusetts Institute of Technology. As Chairman of a committee appointed by the Committee on Higher Education and Special Training, he was in charge of the work of preparing the official syllabus for instruction in hygiene and sanitation to be offered to the enlisted men in the

Students' Army Training Corps at four hundred colleges in the fall of 1918.

A commission for the study and control of epidemic influenza was appointed by Governor Whitman, of which Dr. Winslow was appointed Secretary.

Among the Associate Editors of the *Journal of Physical Anthropology*, a new publication, are Dr. Clark Wissler and Dr. J. H. McGregor.

Dr. Pliny E. Goddard is one of the editors of *The International Journal of American Linguistics*, recently inaugurated.

Mr. Herbert P. Whitlock and Dr. George F. Kunz are among the Associate Editors of the *American Mineralogist*.

HOSPITALITY TO SOCIETIES

As for many years past, the Museum provided meeting rooms for educational and scientific societies, among them the New York Academy of Sciences, the American Association for the Advancement of Science, the American Scenic and Historic Preservation Society, the American Ornithologists' Union, and the Horticultural Society of New York. The Department of Education of the City of New York has held lectures in our auditorium on Tuesday and Saturday evenings as for many years.

The British Educational Mission to the United States, composed of distinguished representatives of the Universities of England, Scotland and Ireland, was entertained by the Trustees on October 10. The Mission came to this country to develop closer coöperation between British and American institutions and to strengthen the bond of sympathy and understanding between the two nations. The party made a tour of inspection of the halls and gave special attention to the methods of coöperation with the public schools. The members of the Mission were: Dr. Arthur Everett Shipley, Vice-Chancellor, University of Cambridge; the Reverend Edward M. Walker, Fellow and Librarian of Queen's College, Oxford University; Sir Henry Miers, Vice-Chancellor, University of Manchester;

**British
Educational
Mission**

Sir Henry Jones, Professor of Moral Philosophy, University of Glasgow; Dr. John Joly, Professor of Geology and Mineralogy, Trinity College, Dublin; Lieutenant Robert Nichols, Oxford University; Captain H. A. Smith, Fellow of Magdalen College, Oxford University; Miss Caroline Spurgeon, Professor of English Literature, Bedford College, University of London; Miss Rose Sidgwick, Lecturer on Ancient History, University of Birmingham.

The Mission of French Scholars to the United States visited the Museum on November 12, accompanied by Dr. William H. Carpenter, provost of Columbia University. The Mission was received by Professor Henry Fairfield Osborn and members of the scientific staff, and an inspection of the educational methods employed by the Museum in handling its exhibits was made. The members of the Mission included: Dr. Theodore Reinach, of the Institut de France; Professor Emmanuel de Martonne, of the University of Paris; Professor Fernand Baldensperger of the University of Paris; Professor Charles Cazamian of the University of Paris; Dr. Etienne Burnet of the Pasteur Institute (Paris); Mr. Charles Koechlin, composer and critic of music; and Mr. Seymour de Ricoli, art critic and secretary of the *Gazette des Beaux-Arts*.

Among the societies and organizations that visited or held meetings at the Museum in 1918 were:

- American Association for the Advancement of Science, Section E
- American Ethnological Society
- American Nature Study Society
- American Ornithologists' Union
- American Red Cross
- American Scenic and Historic Preservation Society
- Angle School of Orthodontia, Eastern Association of Graduates
- Aquarium Society
- British Educational Mission to the United States
- Catherine Abbé Club
- Chautauqua Bird and Tree Club
- City History Club
- Columbia University, Classes
- Department of Education, New York City, free public lecture courses
- Elsie Rutgers Club
- DeWitt Clinton High School

Galton Society for the Study of the Origin and Evolution of Man
Horticultural Society of New York
Inkowa Club
Joan of Arc Club
Keramic Society of Greater New York
Linnæan Society of New York
Massachusetts Normal Art Alumni Association, New York Chapter
Mission of French Scholars
New York Academy of Sciences
New York Bird and Tree Club
New York Entomological Society
New York Microscopical Society
New York Mineralogical Club
School Nature League
Torrey Botanical Club
War Department—Local Board, Division No. 129, of the Provost
Marshal General's Office

SPECIAL GIFTS AND ACKNOWLEDGMENTS

Acknowledgments of the many gifts received by the Museum during the year 1918 will be found on pages 181 to 197, but special mention may be made of the specimens received from the New York Zoölogical Society. Other gifts are: Books and an ethnological and archæological collection from Nicaragua, from Mr. Michael J. Clancy; an ethnological collection, chiefly from North America, from Dr. W. L. Hildburgh; a set of official photographs taken at the time of the visits of the British, French, Italian, Russian and Japanese War Commissions to New York, from Mr. Cass Gilbert; a feather robe from Sitka, Alaska, from Mrs. J. W. Haselhurst; a bronze bust of Dr. Daniel Giraud Elliot, by Chester A. Beach, from Miss Margaret Henderson Elliot; baskets from Alaska, gift of Mr. William Sulzer; skeleton in the flesh, of trotting horse, "Lee Axworthy," from H. K. Devereux; ethnological specimens from the Zuñi and Acoma, from Mrs. Elsie Clews Parsons; 388 negatives of John Burroughs and of Conservation of Wild Life, 254 lantern slides, mostly colored, of John Burroughs and of Conservation of Wild Life, and 1,830 feet of motion picture film of John Burroughs, from Albert Houghton Pratt.

We desire to make acknowledgment to Mr. Carll Tucker of the War Trade Board, and to Mr. Byron R. Newton, Collector of the Port, for expediting shipments for the Museum; also to Messrs. W. R. Grace and Company for courtesies extended in connection with Dr. Chapman's journey to South America.

GENERAL ADMINISTRATION OF THE MUSEUM

FREDERIC A. LUCAS, Director

It may be again said that, while war conditions have affected the work of the Museum, satisfactory progress has been made in the care and installation of the collections, in research and in publication, detailed accounts of which may be found in the reports of the various departments.

The sales of popular publications were better than for some time past, due partly to the fact that many of the returning soldiers have visited the Museum, as well as many "out-of-town" visitors. There were sold at the sergeants' desks 3,610 copies of the *General Guide*; 1,770 *Handbooks*; 2,478 *Leaflets*; and 1,095 reprints, the total of these sales being 8,953 copies. In addition, many publications have been sold through the Registrar's office and the Library, especially *Handbooks*, which are used to a considerable extent as text-books and works of reference.

A new edition of the *Guide*, the fifth in recent years, was brought out in January, a *Guide Leaflet* on "Insects and Disease" in June, and a *Handbook* on the "Fishes of the Vicinity of New York City" in December, while the close of the year finds several handbooks and leaflets nearly ready for the printer.

A most important step was taken by the Museum in undertaking to print its scientific papers, and with this end in view there have been installed a Whitlock Premier cylinder press with 33 × 45 inch bed, capable of 2,200 impressions per hour; a Monotype casting machine with lead, rule and display type attachments; and a D.D. composing machine.

Not including the various galley's of matter for the scientific papers, there have been printed during the year a *Handbook* of




CHARACTERISTIC MAMMALS OF NORTH AMERICA

BEASTS OF PREY: Order *Feræ*

BEARS: Family *Ursidæ*



DISTRIBUTION OF BEARS

Black Bear Group 
Grizzly Bears 
Brown Bears 

Three groups of bears are found in North America, the Black, Grizzly and Brown, each represented by several species. The first two groups are peculiar to North America; the Brown bears are related to those of northern Europe and Asia and their ancestors probably came over at the same time as those of the bison and mountain sheep; the Polar Bear is a strictly Arctic animal and rarely reaches the continent.

Roughly speaking, Brown bears are found along the seacoast and the borders of big rivers; Grizzlies dwell among the hills, and the Black Bear group is partial to swamps and forests.

There have been generally recognized 14 species and subspecies of Black bears, 5 of Grizzlies, and 10 of Brown bears. Recently Dr C. Hart Merriam has allowed not less than 86 species and subspecies of Grizzlies and Brown bears.

LABEL FOR FAMILY GROUP

HALL OF NORTH AMERICAN MAMMALS

122 pages on the "Fishes of the Vicinity of New York City," a *Guide Leaflet* of 73 pages on "Insects and Disease," 18,000 lecture booklets, and 5,000 circulars for membership.

SUMMARY OF PRINTING—1918

	Impressions
Letter-heads	32,300
Field and Reserve Collection Labels	22,015
Report, Requisition and Other Forms	120,071
Catalogue Cards, Tickets to Lectures, etc.	357,752
Programs, Circulars, Invitations	113,850
Color Plates and Inserts for the <i>Journal</i> , 20,500 Copies	185,000
Other Plates	20,400
Popular Publications and Circulars, 10,000 Copies .	35,000
Individual Labels	252
Descriptive Labels	687
	<hr/>
939 (average of 5 each)	4,695
	<hr/>
	891,083

The laws that govern museum attendance have not yet been discovered and formulated, and one can only say that, like bird migration, it is largely affected by the weather; cold or rain keeps the public in their homes; the fine weather of spring takes them into the parks or the nearby country; cool bright days when the walking is good but it is too chilly to sit by the wayside bring visitors to museums. But sudden losses in attendance may and do occur without apparent reason, even when the number and character of the exhibits are steadily improving. So it is encouraging to note that the attendance of 1918 has been good in spite of the uneasiness and uncertainty caused by the war, in spite of the bitter weather of the early part of the year, and in spite of the epidemic of influenza that swept over the country in the fall and winter.

Bagehot's dictum in regard to statistics is well known; but much depends on knowing the attendant circumstances. Thus, while there was an apparent loss of 158,849 visitors to the exhibition halls in 1918, when compared with 1917, this is due largely to the decreased attendance during the spring and fall flower shows, that of 1918 being 137,686 less than that of 1917.

The principal loss has apparently been in the younger and the less well-to-do groups of visitors, those who are directly affected by the increased cost of the very necessities of life and those who have made real sacrifices to purchase War Savings Stamps or to contribute to Red Cross work. Light is thrown on this by the conditions in the National Association of Audubon Societies, where junior membership has dropped not merely by thousands but by tens of thousands, due to competition in schools as to which should contribute most to war work.

That the loss is not among the well-to-do or out-of-town visitors is indicated by the sales of *Guides* and *Handbooks*, especially during the latter part of the year, when many soldiers were passing through the city, and the sales of *Guides* were largest.

STATISTICS OF NUMBERS REACHED BY THE MUSEUM
AND ITS EXTENSION EDUCATIONAL SYSTEM

	1914	1915	1916	1917	1918
Board of Education Lectures	52,761	41,970	34,421	32,790	21,624
Lectures to School Children and Classes visiting the Museum for Study.....	65,785*	61,437	58,842	57,463	21,484
Meetings of Scientific Soci- eties and Other Meetings and Lectures	32,939	22,542	28,495	25,549	20,928
Total	151,485	125,949	121,758	115,802	64,036
Attendance in Exhibition Halls	657,458	794,139	725,917	786,151	627,302
Total Attendance for all Pur- poses	808,943	920,088	847,675	901,953	691,338
Lectures to Pupils in Local Centers		32,800	37,400	38,525	19,575
Numbers reached by Circu- lating Collections	1,273,853	1,238,581	1,118,322	1,104,456	817,610
Grand Total	2,082,796	2,191,469	2,003,397	2,044,934	1,528,523

Special exhibits are uncertain forms of attraction, nor does direct advertising do much to swell the numbers of visitors; newspaper articles do much more, as is shown by inquiries for certain things.

Early in the year, the Committee on Public Information was reorganized, and Mr. George N. Pindar was made Chairman. The other members of the Committee were the Director, the Assistant Secretary, and Miss Jessie M. Davies as Secretary.

* Includes pupils, estimated at 15,000, attending lectures in the Local Centers.

In addition to performing his duties as Registrar, Mr. Pindar has conducted the affairs of the Committee with energy and marked efficiency. Seventy articles were prepared and distributed to the leading newspapers and magazines of the country and syndicated to a large number of other publications. In addition to this, a great deal of practical assistance has been given to reporters and other special writers.

At intervals during the year a "Museum Letter" was sent to our men in the service. These letters contained a message from some one of the Museum staff, a list of our men in service, with addresses, and a budget of news.

Other war work of the Committee included the distribution of copies of *The American Museum Journal* and of the "Guide to the Nature Treasures of New York City" to all the encampments of the vicinity, and the distribution among the hotels and various canteens of the city of nearly 60,000 folders inviting men in the service to visit the Museum. Every center of the War Camp Community Service, the Y. M. C. A., Y. M. H. A., K. of C. and other recreation agencies and the returning transports have been provided with literature and announcements concerning the Museum and invitations to visit us. As a further courtesy to our soldiers and sailors, arrangements have been made to establish a Hospitality Room for the uniformed men visiting the Museum.

The routine work of the Registrar's office has included the recording of 611 accessions, 385 loans and 166 exchanges, also the making of 399 shipments, consisting of 499 boxes which were made ready for transportation; 3,176 shipments, consisting of 6,073 packages, were received and forwarded. The subscriptions to *The American Museum Journal* have also been cared for by this office. These subscriptions have been increased by 263, the number at the close of the year being 736.

The most important addition to the exhibits during the year was that showing the Reptile Life of Florida, the largest and finest habitat group yet produced by the Museum. Other groups are, the Nahant Tide Pool, Lemur, Blue Shark, and

Migratory Butterfly, so that a fair balance has been preserved in the various Zoölogical departments of the Museum. Important individual pieces are an Okapi, the great Magnolia, and an extensive series of teeth with special reference to the teeth of Mammals.

New Exhibits

The rearrangement of the Primates Hall is practically complete, though many minor improvements remain to be effected, and important additions are in course of preparation, including a group of Howling Monkeys and one of African Pygmies. This last, representing a low type of man, is a balance for the Orang Group, which presents a "high" type of ape.

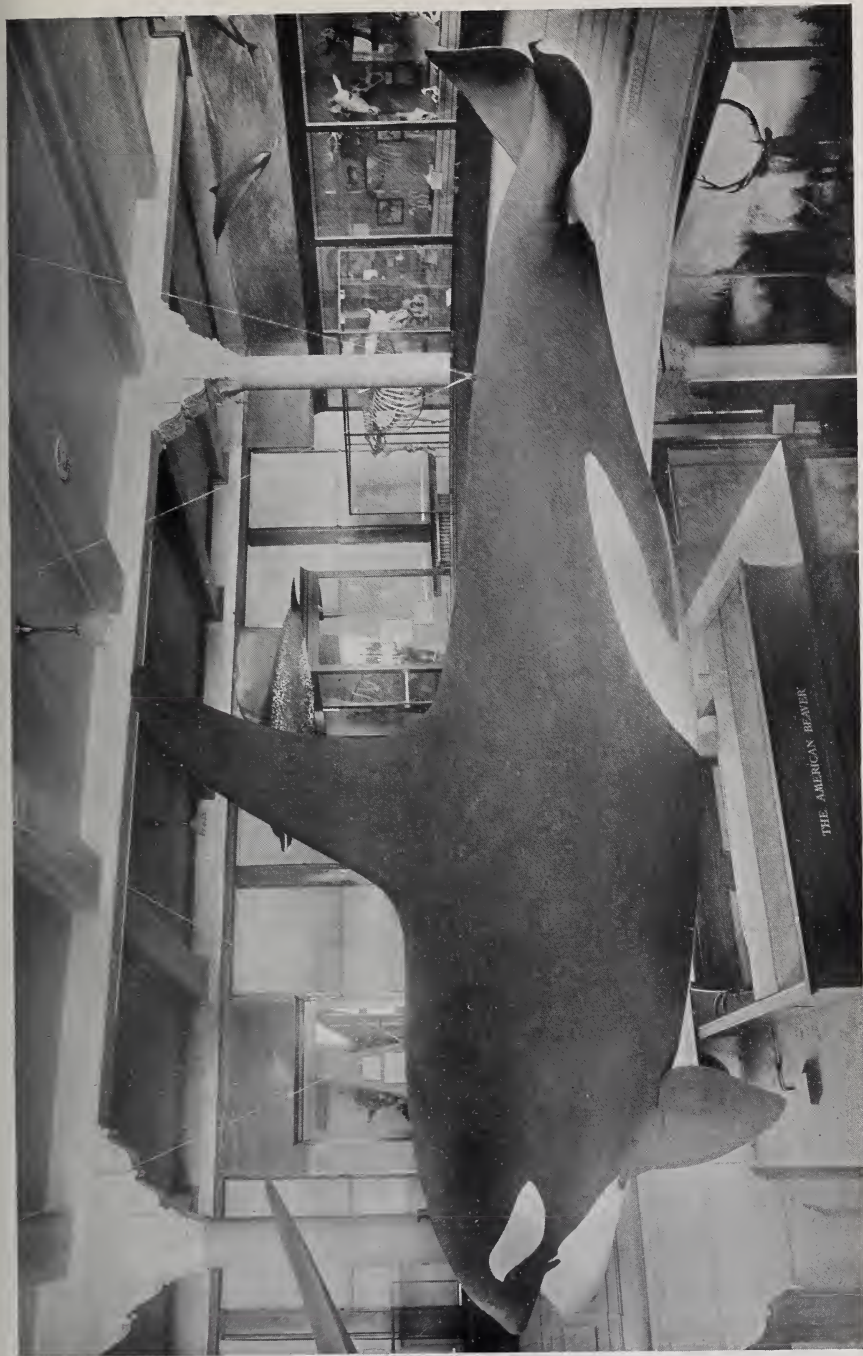
Owing to the high cost of structural iron, the city deemed it inadvisable to close the well in the third floor, which would have permitted the construction of a darkened corridor for groups, and these are now being installed in a special enclosure on the north side of the hall.

Good progress has been made in the Hall of North American Mammals, which is now in fair shape as to arrangement and labeling. An attempt to furnish the visitor with information as to the kinds and numbers of mammals found in North America has been made by providing a series of large Family labels on which the range of the family is shown and the number of species and subspecies given. Whether or not these matters are really of interest to visitors remains to be seen.

The completion of a habitat group of Timber Wolves, begun in the early summer, was prevented by Mr. Nichols being called for camouflage work, and later by extremely difficult problems in connection with the proper lighting of the group. The installation in the North American Hall is a case of putting new wine into old bottles; of putting habitat groups into a hall planned for daylight exhibits, of placing them in a Procrustean bed of limited length, breadth and depth, and of utilizing what was available rather than doing what one would like.

A full-sized reproduction of the Killer Whale has been prepared by Mr. Block from data provided by Mr. Andrews, and this is ready for hanging near the reproduction of the Sulphur-bottom Whale.

Improvements in the exhibition collection of Mammals are becoming more and more difficult, owing to the great conges-



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY
THE KILLER WHALE
(Life-size model)

tion. It is not merely difficult to find a good place for specimens but very difficult to find any.

Among Special Exhibits made during the year were: one showing the Art Work of the New York High Schools and one by the Board of Water Supply, New York City, of maps, plans and models of the Catskill Aqueduct and the construction. This attracted much attention, and the large relief map of the region occupied by the Catskill reservoir and of the route of the Aqueduct has been deposited in the Museum.

Special Exhibits

An exhibit of the large series of ivory carvings secured by the Congo expedition has been placed temporarily in the Gem Hall, and the food exhibit in the Hall of Forestry.

Mr. Knight has added three panels to the series in the Quaternary Hall, including one of the Mastodon and Royal Bison; Mr. Taylor has completed the side panels for the North Pacific Hall; Miss Margaret Henderson Elliot has presented a bronze bust of her father, Dr. Daniel Giraud Elliot, and Mr. Stanley G. Middleton has presented a portrait of Professor A. S. Bickmore.

The Art Collection of the Museum, including under this head the various busts, portraits, paintings and drawings, is quite large and includes some important and interesting pieces, and when opportunity permits will be duly catalogued and described.

An exhibit of about 200 primitive costumes was arranged by Mr. M. D. C. Crawford in the Philippine Hall. These costumes were taken from our storage and exhibition collections.

At the Sixth National Textile Exhibit, at the Grand Central Palace, the Museum had on exhibition prehistoric Peruvian cloths and garments, and clothing of modern primitive peoples. The specimens selected for this purpose have been favorites with professional designers who visit the Museum's collections for inspiration. The influence which these collections have exerted on textile art was clearly shown by the exposition.

The intense, long-continued cold early in the year wrought havoc among the Habitat Groups, in which water is represented by celluloid, and five were seriously damaged, including

the Frog, San Joaquin Valley, and Newark Marsh Groups. It was not possible to repair all of these without neglecting other equally important work, but three of them have been restored to their original condition.

The more evident work of the Department of Construction has been the completion of four fine concrete storage rooms across the gallery of the West Wing, of twelve desk cases, fifth floor, for minerals, and thirteen metal frame cases for exhibits, the casing of the Florida, Wolf and Lemur Groups, the making of 500 glazed drawers for insects and 1,600 storage trays. But these are simply the more evident things, and repairs and alterations are steadily going on everywhere. Few realize the amount of time required for the mere care of the building and keeping it and the multitudinous cases in good order; fewer still appreciate the amount of work and material involved in the minor changes and improvements in the exhibits that are continually taking place.

By virtue of a special appropriation for the purpose, the wall and floor cases of the Department of Geology have been re-finished, having been in continuous use for about fifty years, and the walls of the Woodland, Plains Indian, and Insect Halls painted.

Extensive and much needed alterations have been made on the window casings of the Philippine Hall, which, owing to poor workmanship, have never been satisfactory, and the upper windows in the Tertiary Hall have been made tight. These are simply some of the major repairs but give an idea of the many demands on the mechanic force, the roof of the building alone calling for practically the continuous services of one man, and repairs to floors and walls are steadily called for.

Owing to the seriously corroded condition of the smokestack of the heating and lighting plant and to the failure of the City to provide for its immediate repair, the Executive Committee authorized the President to order the work done, at a cost of \$3,350. It is expected that the City will ultimately reimburse the Trustees for this necessary expenditure.

On May 21, lightning struck the east tower of the Museum,

breaking off large pieces of the stone and causing considerable damage. The President has made application to the Park Department for the issue of Special Revenue Bonds of \$2,500 to make the necessary repairs.

The work of the Heating and Lighting Department has been as usual extremely efficient and economical, though with the price of coal as it has been and is, the actual cost of operating is naturally greater than in 1917. It may be noted that the price of coal has exactly doubled since 1914 and that wages have greatly increased.

**Heating and
Lighting**

The work of utilizing the new types of lamps to improve the lighting of the exhibition halls has proceeded as rapidly as possible without special appropriation for either material or additional assistance, and the close of the year finds the lighting of the North Pacific Hall vastly improved by the introduction of indirect lighting by means of high power nitrogen lamps.

The improvements effected in lamps and methods are shown by the fact that without any addition to engine room equipment and force it is now possible to illuminate the entire building at one time—something impossible previously. Much time and labor are involved in the lighting of the habitat groups, such as the Florida, Lemur and Wolf Groups, for each new group is a problem in itself, not the least of the difficulties being that of finding a readily accessible source of supply, caused by old methods of wiring and inconvenient location of switch boxes.

Of even more importance is the question of making suitable provision for the control of the lights for the present groups and for the installation of future groups. A special panel energized by a separate switch on the power house panel board is needed for this purpose, from which all wires for groups should lead so that there would be no physical connection between the lighting of the groups and that of the exhibition halls. This is a matter for which a special appropriation should be made in the near future as it necessarily entails a readjustment of existing conditions.

The Director is glad to report that two 70-foot flagpoles of Oregon pine have been placed in front of the Museum, so that

one of the needs of the Museum is provided for. It is important that the entire south front of the Museum grounds should be protected by an iron fence six feet high

**Needs of
the Museum**

to prevent damage to the grass, trees and shrubs. This area is now unprotected and is used as a playground by children, who wear off the grass and break the trees and shrubs, with the result that this portion of the grounds is in an unsightly condition, instead of forming, as it should, an appropriate setting for the Museum building. Those who advocate unrestricted use of the parks for playgrounds forget that grown-ups are entitled to some consideration and that a piece of property costing over five million dollars and visited yearly by three quarters of a million persons from all parts of the country should be properly cared for.

The crying need is still for a new wing, in order to provide exhibition, storage and work rooms. The present space is taxed to the utmost, and the second floor of the central pavilion is in especially bad shape, containing, besides the exhibit of reptiles, a heterogeneous assemblage of birds and mammals, some of which are placed on top of the cases. It is not a question of finding suitable room, but of finding any room.

The need of a hall for special and temporary exhibitions is greater than ever, and the Museum loses many opportunities to cooperate with other institutions and societies simply for lack of space. The proposed Southwest Court Building would provide for this as well as for workrooms, studios, and storage for molds and casts now scattered in various places, some almost inaccessible.

REPORTS OF THE CURATORS

PUBLIC EDUCATION IN THE MUSEUM
AND IN THE SCHOOLS *

GEORGE H. SHERWOOD, Curator

The educational work of the Museum has suffered from the exigencies of the year. The thoughts of staff, teachers and pupils have been concentrated on the great struggle, and it has been difficult to take up subjects not directly connected with it. In spite of these distractions, however, the important connections between the Museum and the public schools have been maintained. This is true of all branches of the work—circulating nature study collections, the lectures to school children, the education for the blind, the loan collections for the libraries and the circulation of slides in the schools.

The statistics for the year are less impressive than in previous years. This, however, is to be expected, as the extreme cold weather of the winter and the epidemic of influenza in the fall interfered with the normal activities of the children, while direct war work has required the attention of members of our staff.

Through its coöperation with the Y. M. C. A., the department has made a valuable contribution to war work. Last year, we undertook the preparation, by members of the scientific staff and other explorers, of a series of "Exploration Tales for Soldiers and Sailors." Each "Tale" consisted of about sixty slides accompanied with a manuscript dictated by the explorer himself. Two sets of each lecture were loaned to the Y. M. C. A. for use in the encampments at home and abroad as well as on the transports. The initial cost has been borne

War Work
of the
Department

* Under the Department of Public Education (see also pages 181 and 182).

by the Museum. Duplicates of these lectures, or "picture-looks," their official title, have been made at a very low cost price for the Y. M. C. A. Seven of these "picturelooks" have been completed during the year, and twenty-seven sets, comprising more than 1,700 slides, were turned over to the Y. M. C. A. Of these, fourteen sets were prepared entirely at the Museum's expense, the remainder at cost.

In addition to these lecture sets, the department has made a considerable number of miscellaneous slides for the Y. M. C. A. besides presenting it with some three thousand slides from our general series. That we were able to do this work for less than normal cost is due largely to the generous volunteer service of members of the department staff, of the American Museum War Relief Association, and other friends. We wish to acknowledge the assistance of Mrs. L. Goodrich Smith both in coloring slides and in classifying material. Our thanks are also due to Misses Harriet L. McCoy, H. Ruth Kraft, Mabel R. Percy, Clara M. Beale, Jessie M. Davies, and Virginia B. McGivney for typing manuscripts; to Misses Almeda Johnson, Harriet L. McCoy, Helen M. Vreeland, Dorothy Van Vliet, Mrs. George H. Sherwood, Mrs. Ralph W. Tower and Mrs. Ruth Weber for binding and captioning the slides; and to Dr. G. Clyde Fisher, Mr. Julius M. Johnson, and Misses Virginia B. McGivney, Paula C. Lambert and Harriet L. McCoy for the preparation of manuscripts.

The second feature of our war work has been the furnishing of free guide service for soldiers and sailors visiting the Museum. While this has been for the most part occasional, during the spring groups of sailors, under the patronage of Mrs. Henry R. Hoyt, came regularly on Saturday afternoon from the Twenty-third Street Y. M. C. A. In this guide service, we have been greatly assisted by Miss Annie Lucas, who has given generously of her time to this work. This branch of the work is becoming more and more important, and it is correlated with the service given by the Hospitality Room.

An important piece of work of the year was the publication of a booklet entitled "Free Education by The American Museum of Natural History." This is a historical account



DEPARTMENT OF PUBLIC EDUCATION

THE SLIDE LIBRARY

Public School teachers selecting slides for class-room use

The lending of slides to teachers is made possible through a special appropriation from the Board of Education

of the development of the extensive relations of the Museum with the educational system of the country, but particularly with the public schools of New York City. The

**Publication
—“Free
Education”**

booklet was prepared by the Curator, assisted by members of the department staff, with an introduction by President Osborn. The publication also gives a résumé of the educational work in 1917 and a list of the schools, colleges and other institutions throughout the country which utilized the Museum in 1917. These number 1,159 institutions. This publication has been sent to all the schools in the city and to prominent educators of the United States and abroad.

That the Museum is a leader in the development of methods of coöperation with the public school systems is emphasized by

**Opinions
of Foreign
Educators**

the attention that this work received from three foreign educational missions. In October, the British Educational Mission, of which Sir Arthur Shipley, Vice-Chancellor of Cambridge University, is chairman, visited the Museum especially to study these subjects, and members of the Mission stated that we had far exceeded anything that was done in England. On a visit in November, the Mission of French Scholars, of which Lieutenant Colonel Theodore Reinach was the head, expressed similar astonishment at the progress we have made. The Japanese educators have also given much study to the methods employed here. This appreciation from such eminent educators makes even more regrettable the suspension of this service to the public schools because of the reduced appropriation by the City.

The greatest growth in the work of the Department has been in the lending of slides to schools. This phase of coöperation was begun four years ago under a special grant

**Lending of
Lantern
Slides**

of \$2,000.00 from the Board of Education. The results have fully justified the support. The first year, only thirty-five schools borrowed slides and the number circulated was 11,929 slides. In 1918, 102 schools were using the slides and 72,287 were in circulation.

Thus, in four years, the number of schools has trebled, while the circulation of slides has increased more than sixfold. More important, however, is the increase in number of times that an individual school borrowed slides. The record goes to P. S. No. 168 Manhattan, of which Miss Cecilia A. Francis is Principal, which has been supplied ninety-four times during the year. Other schools that have records of borrowing more than twenty-five times are:

New York Training School for Teachers	40	times
P. S. No. 171 Manhattan	47	"
P. S. No. 23 Bronx	29	"
P. S. No. 42 "	52	"
P. S. No. 50 "	31	"
P. S. No. 126 Brooklyn	46	"
P. S. No. 149 "	38	"
Bay Ridge High School, Brooklyn	26	"

The significance of these statistics is that this service is extended to the schools of all boroughs and that the teachers are systematically using these valuable aids to instruction.

Our experience of previous years has proved that the slides that are arranged in complete lectures are more useful to the teachers than the general selection from the Museum file. So great has been the demand for several subjects that it has been necessary to triplicate some of the sets. During the year, six new sets have been added to the loan series, making a total of twenty sets in all. No. 15, "Implements of Modern Warfare—The Aëroplane," No. 16, "Implements of Modern Warfare—The Submarine," No. 19, "Our National Heroes," and No. 20, "The State Reservation at Saratoga Springs," were prepared by the slide librarian, Miss Virginia B. McGivney. No. 17, "France: Paris," and No. 18, "The French Riviera," were prepared by Miss Paula C. Lambert, who generously contributed her services.

The complete series includes the following:

1. The War Zone of Western Europe in Time of Peace
2. The Panama Canal
3. Our Forests and Their Uses
4. The Birds of Our Parks

5. A Journey in South America
6. The Wonderful Work of Water
7. Care of the Teeth
8. Minor Industries of New York State
9. Farming in the Middle West, or Some Sources of Our Food Supply
10. Mexico
11. Longfellow
12. Washington Irving's England
13. "The Meadow People"
14. Japan, the Island Empire
15. Implements of Modern Warfare—The Aéroplane
16. Implements of Modern Warfare—The Submarine
17. France: Paris
18. The French Riviera
19. Our National Heroes
20. The State Reservation at Saratoga Springs.

The following comparative statistics indicate the growth of the work:

	No. of Schools borrowing	No. of Loans	No. of Slides circulated
1915	35	146	11,929
1916	63	491	38,912
1917	84	935	63,111
1918	102	992	72,287

In addition to supplying the public schools, it has been found possible to render similar service to several other schools and institutions in or near the city.

The marked growth in the use of slides is in no small measure due to the intelligent appreciation of the needs of teachers and the efficient direction of the work by the slide librarian, Miss Virginia B. McGivney.

For nearly fifteen years, the Museum has been supplying traveling collections of Nature Study specimens to the schools, delivering them free of charge to any public school in Greater New York. So well established is this form of assistance that teachers feel slighted if these collections are not available for their use at the beginning of the school term. This service has

**Nature
Study
Collections**

been extended to the schools of all boroughs throughout the year, although we were unable to make transfers as frequently as in other years because our messengers were called for military service. Consequently, the statistics for the year are considerably below the average. The comparison with preceding years follows:

	1914	1915	1916	1917	1918
Number of Collections in Use	675	671	704	712	629
Number of Schools in Greater New York Supplied	570	473	439	446	419
Number of Pupils Studying Collections	1,273,853	1,238,581	1,118,322	1,075,076	790,346

As in the case of the nature study collections, the lectures for pupils, supplementing the class-room work in geography, history, and natural science, have been given for so many years that many teachers now regard them as an integral part of their instruction. A spring course of 23 lectures and a fall course of 8 lectures were given at the Museum, at which the total attendance was 10,343. The effect of the extreme cold weather of last winter and of the influenza epidemic in the fall of 1918 is very noticeable in the attendance records. Furthermore, the activities of the children in selling thrift stamps and in doing other war work and the great amount of war work done by the teachers outside of school hours have been contributing factors in the reduced attendance at the lectures. Courses were given in three local lecture centers, namely, *Washington Irving High School*, in coöperation with Miss Rosemary F. Mullen, Head of the Department of Biology; at *P. S. No. 64 Manhattan*, in coöperation with Louis Marks, Principal; and at *P. S. No. 42 Bronx*, in coöperation with Eugene B. Gartlan, Principal. In all, 17 lectures were given in these three centers with a total attendance of 15,075. In addition to these, Dr. Fisher and Miss Thomas gave five lectures, on special request, in other schools. The attendance at these special lectures was 4,500.

**Lectures
for School
Children**

Following is a summary of the Lecture Courses given during 1918:

	No. of Lectures	Attendance
Lectures to School Children Given in the Museum	31	10,343
Lectures to School Children Given Outside the Museum	<u>22</u>	<u>19,575</u>
Total Lectures to School Children	53	29,918
Lectures to Members of the Museum	8	4,805
Lectures to Children of Members	8	8,774

Many of the high schools make large use of the Public Health Charts in their classes in physiology and hygiene, of the mounted birds and animals in their classes in art, and of various collections of our loan series in their classes in physical geography and biology.

**Coöperation
with High
Schools**

But twice a year, during Regents' Week in January and again in June, we coöperate with several of the high schools in a special way. The biology classes from these schools come to the Museum with their teachers for lectures and for laboratory work. The lecture is given in the Museum auditorium by one of the biology teachers, or more frequently by a member of the department staff. Systematically planned laboratory work is done in one or more of the following halls: Habitat Groups of North American Birds, Public Health, Habitat Groups of Amphibians and Reptiles, Darwin Hall, Insect Hall, and North American Forestry.

The department has furnished guides to teachers and classes visiting the Museum, regardless of whether they were from private, parochial, or public schools, and regardless of whether they were from New York City or elsewhere. Teachers have been encouraged to concentrate their attention at any one visit upon the exhibits of a single hall, or at most, those of two halls.

**Docent
Service to
Schools**

Circulating loan collections of natural history specimens and of anthropological material have been in use during the year in seventeen branch public libraries of the City. In the preparation of these the Department of Public Education has had generous help from the Department of Anthropology both in

material and information. The collections are lent for a month or two months, and are delivered and transferred by the Museum messenger. According to statistics furnished by the librarians, these have been studied in 1918 by 1,774 adults and 25,490 children.

**Loan
Collections
for Public
Libraries**

In further coöperation with the libraries, on January 16 Miss Thomas gave her lecture, "In the Land of Hiawatha," at the Hamilton Grange Library to two hundred children.

A series of ten talks was given in the Museum to the sight conservation classes from the public schools of Greater New York and of Jersey City and Newark, New Jersey. These were given separately for each class that asked for them, and twelve classes availed themselves of the opportunity of a part or all of them. The subjects treated embraced geography, elementary astronomy, men of the old stone age, industries, animals, and wild flowers. Every lesson was illustrated by means of a simple apparatus or specimens which every child had the opportunity of "seeing with his fingers." The classes are small, most of them less than a dozen pupils, so that individual teaching is practicable.

**Educational
Work with
the Blind**

For use in these classes, there has recently been added to the equipment an apparatus called the "Uranisphere," which is especially adapted for teaching elementary astronomy and physical geography,—such phenomena as phases of the moon, eclipses of the sun and moon, change of seasons, causes of dry and rainy seasons, etc. The equipment and the running expenses of this work are provided for by the Jonathan Thorne Memorial Fund.

There has been more photographic work than could be done by the two Museum photographers, and during the latter half of the year one of these men was in the army engaged in photographic work in the Signal Corps.

**Photographic
Work**

During the year the following work was done by the Museum photographers:

Negatives made, 957; Prints made, 13,073; Lantern Slides made, 3,363; Enlargements made, 370. As shown by the accession list, our photographic files have been further increased during the year, by purchase: 345 negatives; by gift: 515 negatives and 299 lantern slides.

There are now in the reference file 48,286 negatives and 65,583 photographic prints.

During the year, the motion picture library has been increased as follows: 1,830 feet illustrating the life and haunts of John Burroughs; 450 feet illustrating the building of the Liberty Hospital Model; 1,500 feet of negative and 5,000 feet of positive, illustrating natural history subjects, made by Roy C. Andrews; 1,000 feet showing whaling in Japan made by the Dorsey Expedition; and 3,000 feet showing Australian natives made by Mr. Marshall Rhodes.

During the year 1918, the department has had the coöperation of the following firms and individuals:

Acknowledgments Mr. Alfred W. Abrams of the Division of Visual Instruction, Department of Education, Albany, N. Y., in lending dies for cutting lantern slide mats; The New York State College of Forestry in lending negatives of Forestry subjects with permission to make lantern slides and duplicate negatives for our files; The New York Historical Society in permitting the use of books and plates in the preparation of illustrated lectures; New York State Conservation Commission in lending motion picture films of forestry for use in lectures to school children; Brown Brothers in lending photographs for lantern slides for use in lectures to school children; The New York Botanical Garden in lending lantern slides for use in our educational lectures, and Miss Paula C. Lambert for help in preparing lecture sets for our loan series.

Staff As the Curator's time is largely taken up with other administrative duties, the detailed supervision of the work has fallen upon the Associate Curator, Doctor G. Clyde Fisher, while the contact with the libraries and the blind has been under the immediate direction of Miss

Ann E. Thomas. It is due to the "team work" of all members of the department staff that so much has been accomplished at relatively small expense.

GEOLOGY, GEOGRAPHY AND PAST LIFE ON THE EARTH *

EDMUND OTIS HOVEY, Curator

At the end of last year Dr. Chester A. Reeds, who had been Assistant Curator since the middle of 1912, was promoted to be Associate Curator of Invertebrate Palæontology. In May, Mr. P. B. Hill enlisted in the army and Mr. E. J. Foyles was inducted therein through the draft. These temporary vacancies were filled by the appointment of Messrs. A. Latzko and J. C. Creley.

Changes in Staff

In August Dr. Carlotta J. Maury began work upon the Pelecypoda of our collections. She has devoted years to the study of the fossil pelecypods of this country, Europe, South Africa and South America, and is regarded as an expert in them, especially those of the more recent geological periods. In September Dr. Marjorie O'Connell, who is likewise an expert in invertebrate palæontology, particularly in the forms occurring in the older geological periods, renewed her connection with the department. Dr. Arthur Hollick, the palæontologist, has begun the revision of our collection of fossil plants and the selection and arrangement of an exhibition series. Such expert assistance is of the highest value to the Museum. Dr. Elvira Wood has been engaged upon enlarged models of trilobites.

Expert Assistants

When Dr. Reeds was advanced to the associate curatorship, he was given charge of the collections of invertebrate palæontology, and a subdivision of the exhibition hall was instituted, so that reorganization of the display material could be effected along the lines set forth in his suggested plan dated August 1, 1917. The

Exhibition Hall

* Under the Department of Geology and Invertebrate Palæontology (see also pages 182 and 183).

major portion of the western half of the hall was definitely set apart for the series of fossils and other material illustrating historical and stratigraphical geology, and the corresponding portion of the eastern side of the hall was assigned to the biological phase of palæontology. The alteration of the upright cases called for by the plan adopted was begun in May and is practically completed, so far as the reception of the historical and biological exhibits is concerned. These cases have been adapted for the installation of a scheme of internal lighting that promises highly satisfactory results.

The exhibition series of Pelecypoda as selected by Dr. Reeds is being checked up, labeled and arranged by Dr. Maury. This has called for an immense amount of time-consuming labor in the verification and changing of determinations, but the work has advanced so far that the specimens for more than three-fourths of the alcove devoted to this branch of palæontology are in place, and this section of the hall will be completed early in 1919. The reference data which Dr. Maury has prepared concerning each species have been typewritten on slips of paper which have been pasted on the backs of the exhibition tablets, and a typewritten exhibition label has been attached to each tablet.

Dr. O'Connell has made a good start in arranging the Cephalopoda for the exhibition biological series.

The exhibit of Bryozoa which was prepared last year by Dr. J. J. Galloway has been installed in its permanent position.

The core for a model of a section of the Grand Canyon, which was begun under the direction of Assistant Curator Reeds in March, 1917, was about four-fifths finished when Mr. Hill joined the army in May, 1918. This was completed by Mr. Latzko and placed in the hands of the Morgan Brothers Company of this city for the modeling of the surface and the preparation of the painted background. During the fall Mr. Lester Morgan made a special visit to the Canyon for securing sketches and other data for his work, and it is reasonably expected that the finished model will be installed during January, 1919. This model will form a most attractive and

Topo-geo-
logical
Relief
Models

beautiful exhibit, and it is at the same time the most intricate and difficult member of the series planned for the hall. Mr. Latzko has likewise prepared the wooden core for the second member of the series, the Mt. Holyoke Range Region in Massachusetts, and has begun the core for the third member, which will represent the Watkins Glen Region of New York State. The horizontal scale of the Grand Canyon model is 1:12000, or one foot to about two and one-fourth miles; that of the other two is 1:15000, or nearly one foot to two and three-quarters miles. In all, the vertical scale is double the horizontal. A sketch model of the Yosemite Valley is in course of preparation by the Morgan Brothers Company and is to be delivered early in 1919.

During the early part of the year, Associate Curator Reeds, with the assistance of Mr. Hill, resumed the intensive study of the seismograph and its records. Interruptions, due to various causes, however, have impeded the work, and our wireless receiving outfit was removed when the United States entered the war, so that we have not been able to get accurate time with regularity. It is hoped, however, that the apparatus will soon be in proper use again.

The eight cases containing the general collection of meteorites have been removed from the fourth floor hall and installed in the north corridor of the ground floor beside the collection of Building Stones. There have also been placed in this corridor the collection illustrating the Geology of Manhattan Island and the large single geological specimens formerly in our main exhibition hall.

Miss Dunst, with the occasional assistance of Miss Marks, has prepared a card index of all the accessions to the departmental collection listed in the annual reports of the Museum from the beginning, and is still occupied with assembling into envelopes correspondingly numbered all the available letters and other data pertaining to the acquisition of each lot. Mr. J. B. Thornhill

has put catalogue numbers on some 3,000 geological specimens, written drawer labels, and made manuscript entries in the books for many of them. This year Miss Greene has prepared more than 15,000 cards for the palæontological catalogue under the direction of the Associate Curator, and has developed great proficiency in the work. About one-fourth of the cards needed for the replacement of the Whitfield book catalogue have now been prepared.

The Curator captioned and turned over to the Department of Public Education about 600 negatives resulting from his visit to the Arctic in 1915-1917. He prepared for the Department of Anthropology some geological notes on the kitchen midden sites of the Smith Sound region and a preliminary description of the Ahk-po-hone iron meteorite which Mr. Ekblaw of the Crocker Land Expedition brought down from Ellesmere Land. Mr. Ekblaw, who is Research Associate in the department, has been working up, at the University of Illinois, his geological and geographical data obtained in the Cape York-Smith Sound region and in northern Grant Land. Early in December there appeared from the press of Harper and Brothers, Dr. D. B. MacMillan's 400-page book, "Four Years in the White North," giving a vivid account of the journeys, labors and experiences of the Crocker Land Expedition staff and of life in general in the Far Arctic.

The New York Academy of Sciences is publishing the base map of Porto Rico prepared by Dr. Reeds and Mr. A. Briese-
meister in 1915. It is to be hoped that the Carib-
bean and West Indies map, prepared by the same
authors in 1916, can be completed and published
during the coming year. The illustrations in Dr.
O'Connell's paper on the "Schrammen Collection of Silici-
spongiæ of Northwestern Germany," the text of which was prepared last year, were finished in November, and the article is in the hands of the editor of the Museum *Bulletin*. When Dr. O'Connell returned to the Museum in September, she undertook the study of some Jurassic ammonites which Mr.

Barnum Brown collected in Cuba last summer. The results are very valuable, and are to be published in the *Museum Bulletin* at an early date. The Curator has also published an account of Eskimo child life in the *Museum Journal*. Mr. Ekblaw has an article on "The Danish Arctic Station at Godhavn" in the November number of the *Museum Journal*, and has published other Crocker Land Expedition material in the *Geographical Review* of the American Geographical Society and elsewhere. Other reports awaiting opportunity for completion are the Curator's account of the work done in Martinique and St. Vincent in 1915, under the Angelo Heilprin Exploring Fund and certain observations made in Greenland with the Crocker Land Expedition in 1915-1917, also a popular scientific account of the seismograph and its use by the Associate Curator.

The most important accessions of the year have been a series of rocks and fossils illustrating the geology of New Mexico, collected by Professor C. T. Kirk of the University of New Mexico; two large cut and polished slabs of Michigan amygdaloid copper and copper conglomerate from the United States National Museum; a series of specimens of galena, sphalerite and marcasite from the Admiralty Zinc Company, Quapaw, Okla.; a series of two hundred Devonian fossils from Iowa collected by Carroll Lane Fenton; the Barnum Brown collection of ammonites and other Jurassic fossils from Cuba; and some 1,660 specimens representing 165 species of fossils from the Hunton beds of Oklahoma made by Associate Curator Reeds before he became connected with the Museum.

No field work was carried on by the department aside from a reconnaissance of the Watkins Glen region, New York; a somewhat careful photographic survey of the Mt. Holyoke Range region, Massachusetts, by the Curator for the benefit of the topographical models now under preparation, and collecting trips by Research Associate Ekblaw to the fossil plant locality of Mazon Creek, Illinois, and to the sand fulgurite locality of Whiteside County, Illinois.

MINERALS AND GEMS *

HERBERT P. WHITLOCK, Curator

With a view to increasing the attractiveness of the Morgan Collection of Minerals, several experiments were made in re-mounting small sections of the collection, and a plan for the reinstallation of the entire collection has been devised which it is believed will not only materially add to the effectiveness of what is undoubtedly the finest displayed series of minerals in America but will admit of an appreciable gain in available space for exhibition, thus allowing for the growth of the collection in all its elements.

Mineral
Collection

A small exhibit illustrating the relation of minerals to the production of munitions of war has been installed in two cases of the A type in the Hall of Minerals. This series, the assembling of which was begun in June, aims to visualize the steps in the development of war munitions from the ore to the finished product and to emphasize the need of establishing an adequate domestic source of supply of the ores of the rarer metals. Through the courtesy of a number of prominent manufacturing firms producing war materials for the Government, it has been possible to supplement the display of ores with many examples of such finished products as special steel alloys, armor plate, graphite tools and appliances used in smelting and converting metals, detonators, cartridges and bullets, sections of gun barrels, etc. The exhibit has proved eminently successful in that it has apparently been instrumental in bringing before the public a phase of our war industry of considerable importance.

War
Minerals

Through the courtesy of Mr. Charles Lanier there has been deposited as a loan in the Morgan Hall of Gems an exquisite example of modern art in carved chalcedony. This consists of a graceful statuette eight inches in height carved from an un-

* Under the Department of Mineralogy (see also pages 183 to 185).

usually perfect block of translucent bluish chalcedony of natural color. The figurine, which is entitled "Pas de Danse," is the work of M. Tonnelier, the eminent French artist stone engraver, and was exhibited in the Paris Salon of 1912. It is one of the finest known examples of gem carving. It was a gift from the late J. Pierpont Morgan to his lifelong friend Mr. Lanier and typifies Mr. Morgan's well known taste and knowledge in acquiring objects which combine the highest qualities of art with the best standards of rarity.

**The
Tonnelier
Figurine**

A revision of *Guide Leaflet* No. 4 has been prepared, considerably extending the scope of the present Guide, which passed into its Second Edition in 1904 and of which the supply is nearly exhausted.

Publications

The material of the Bement Collection is especially rich in crystallized specimens, many of which have never been figured and among which there is unquestioned evidence of rare and new forms. It is proposed to undertake the description of this collection in the form of a Crystallographic Atlas to be issued in parts, each part devoted to a section of the Collection and to consist of plates with descriptive text. The equipment for this work, a Hutchinson Universal Goniometer, has been ordered from James Swift and Son of London. Pending the delivery of this instrument, which has been delayed by war conditions, the department, through the courtesy of Professor Moses of Columbia University, has been offered the use of a goniometer, in order that the study may not be unnecessarily delayed.

Research

Among the mineral specimens that have been added to the collection displayed in the Morgan Hall of Minerals during the past year, are several which, by reason of their exceptional quality, their rarity and their current interest, are worthy of a short descriptive note.

Accessions

A magnificent group of diopside crystals from the Kirghese Steppes, Siberia, constitutes a notable addition to the fine suite of this copper silicate already on exhibition. Also from Siberia comes a handsome group of the rare mineral achtaragdite,

in ash gray crystals which are almost diagrammatic in the perfection of their development. Remarkably large and perfect examples of scheelite, from a new locality in Mohave County, Arizona, have been added to the collection. These are represented by a single crystal nearly two inches in diameter, and a group showing scheelite associated with black tourmaline which is both striking and attractive. Equally attractive by reason of its brilliant color contrast is the uranopilite on chalcopyrite from Montrose County, Colorado, in bunched incrustations of a fluorescent yellowish green. Among the newly discovered minerals represented in this year's accessions, are spencerite, a zinc phosphate from the Hudson Bay Mine at Salmo, British Columbia; crestmoreite, a new hydrous silicate from Crestmore, Riverside County, California, and temiskamite, a new (1914) nickel arsenide, represented by specimens from two Canadian localities. A striking example of mineral association is represented by a large moss-like stalactitic mass of psilomelane, enclosing crystals of native copper and dotted with malachite, from Warren, Arizona, the gift of Mr. L. D. Ricketts. The more local mineral occurrences to be found among the year's accessions include a large and very fine crystal of amazonite from Valhalla, Westchester County, the gift of Mr. James G. Manchester.

The Morgan Gem Collection has been enriched, through the gift of Mr. J. P. Morgan, by the addition of three magnificent cut opal pieces of rich color and fire from Humboldt County, Nevada, also two large faceted tourmaline gems, wine red in color, from Brazil, and a large tourmaline roughly shaped in the Chinese manner from San Diego County, California.

The use of minerals for carved ornaments is represented by a series of beautiful Chinese carvings in agmatolite which were exhibited at the Centennial Exposition in 1876. These include a large stand supporting figures of the Nine Worthies of China, two seated figures of Chinese Sages, and two tall flower vases ornamented with vine and foliage forms. They were presented by Messrs. Albert G. and Jerome J. Hanauer.

WOODS AND FORESTRY *

MARY C. DICKERSON, Curator

Owing to the service in France of the Associate Curator, Major Barrington Moore, as an officer of engineers, the work so optimistically planned for 1918 on small groups to illustrate forestry conditions and principles has not been carried out. Also, for lack of available funds, a decision regarding the east wall mural, sketches for which have been prepared by Mr. Hobart Nichols, has not been possible.

Some labels have been inserted where they were lacking, and the work on the construction of exhibition sprays of flowers, fruits, and leaves has progressed with great satisfaction. This work is in the hands of the artist, Mr. Milton D. Copulos. One particularly impressive spray of the large-leaved cucumber tree (*Magnolia macrophylla*) was constructed in the winter of 1917-18, from a living original of record size from Westchester County, New York, the gift of Mrs. Horde, of New York City. This spray is exhibited in a separate case at the entrance to the forestry hall and has attracted much attention. As a whole, it is 43 inches in width, the largest leaf measuring 21 inches, and the flower 9 inches.

Among other sprays worked on during the year the following were put on exhibition: black maple (*Acer nigrum*); red ash (*Fraxinus Pennsylvanicum*); black oak (*Quercus velutina*); and Arizona sycamore (*Platanus Wrightii*).

In connection with this work the coöperation of botanists and foresters was enlisted in supplying the fresh material for the reproductions. Through this professional courtesy in different parts of the country, 20 specimens in all were received, from which were selected the handsomest and most typical to serve as models. As a result it will be possible to add eight species to the collection. These include: blue ash (*Fraxinus quadrangulata*), from Indiana; western cherry laurel (*Prunus ilicifolia*), from California; California sycamore (*Platanus*

* Under the Department of Woods and Forestry (see also pages 185 and 186).



DEPARTMENT OF WOODS AND FORESTRY
SPRAY OF RECORD MAGNOLIA REPRODUCED IN WAX

racemosa); Schneck's oak (*Quercus Schneckii*), from Indiana; Arizona sycamore (*Platanus Wrightii*), and Mexican walnut (*Juglans rupestris*), from Arizona; broad-leaved maple (*Acer macrophyllum*), from Oregon; Oregon ash (*Fraxinus oregonia*), from Oregon and California.

In addition to these sprays of deciduous trees, one valuable prepared conifer spray, of Douglas spruce (*Pseudotsuga taxifolia*), from Colorado, was purchased from Mr. A. E. Butler.

The reference collection has been enriched by gifts of West Indian and South American woods as follows: Porto Rico, 82 pieces, representing 40 varieties; Cuba, 23 pieces; and Colombia, 38 pieces. A series of 62 photographs illustrating Sitka spruce lumbering methods in the northwestern United States has been added to the educational files of the department.

EXISTING INVERTEBRATES *

HENRY EDWARD CRAMPTON, Curator

The activities of the department as a whole have been continued along normal lines, although the war has affected these activities in certain respects. Members of the staff have been engaged in national service during part of the year, but have now returned to their full work. Many collaborators, formerly engaged in the study of special collections, have been in service, and necessarily their reports have remained uncompleted, and publication has been postponed. Finally, field-work has been temporarily suspended, excepting in the instances noted below.

The Nahant Tide Pool Group was completed and installed in the early part of the year. This group, described in detail in last year's report, is a noteworthy exhibit in the series of habitat groups in the Darwin Hall. During the year the Bryozoa Group has been carried partially to completion. It will represent the natural history of a bit of sea bottom, one and five-eighths inches in diameter, magnified twenty-five diameters. The minute animals and plants naturally associated with the Bryozoa will be shown

Darwin
Hall

* Under the Department of Invertebrate Zoology (see also pages 186 to 188).

magnified to scale. Seven species of the latter will be represented, while among the associated forms certain hydroids budding forth medusæ will exemplify alternation of generations. The complete life history of a typical colonial ascidian (*Botryllus*) will also be shown from the free-swimming larva to the stationary adult animal. This group presents many new problems of preparation and installation, and will be an effective contrast to the other window groups in the Darwin Hall. The final panel for the Mendelian exhibit has been practically completed and is now ready for installation. It represents one of the simplest cases of Mendelian color inheritance as shown in the Four o'Clocks (*Mirabilis jalapa*). The series of Protozoa models has been amplified by several striking items, notably models of the remarkable Radiolarians, *Collozoum inerme*, *Trypanosphæra transformata* and *Lithocircus arborescens*. A chart illustrating the phylogeny of invertebrates and their relation to the vertebrate stock has been prepared and temporarily installed in the Synoptic Hall of Mammals. When completed this chart will illustrate, by means of specimens and models, the chief types of the animal kingdom, as well as their phylogeny. In addition, a series of the flat worm and round worm models, purchased for the Museum in Japan by Major Bashford Dean, have been remounted and placed on exhibition. Two items have also been added to the series of nudibranch models. Throughout the year the work of enlarging and refitting the exhibition cases has continued, and five cases are now completed. During 1918, 9,728 pupils visited the Darwin hall in 361 classes from 172 different institutions. Each class was accompanied by its teacher and came for the purpose of studying definite exhibits. Of the institutions represented, 47 are from out of town, 104 are public schools, 46 private schools, and 15 parochial schools. Seven of the number are collegiate institutions.

The cataloguing and arrangement of our general collection of Brachyura, begun in 1917 by Dr. W. G. Van Name, were completed by him during the early months of this year, and since then a general rearrangement of the catalogued material and uncatalogued accessions of the invertebrate collections has

been undertaken and carried out in most of the larger groups. The new system facilitates the finding of any specimen, and will allow space for considerable growth in the collections without the necessity of rearrangement. The large collection of invertebrates made by Mr. Barnum Brown in Cuba during the spring and early summer has been sorted and most of the Crustacea have been identified and catalogued. Important progress in the work on the Congo Expedition Collections has been made during the year. The Crustacea were more carefully examined and sorted, and such of them as were to be studied elsewhere were packed and shipped. Those identified by Miss Rathbun at the Museum and those returned to the Museum have been catalogued, and the land shells returned by Dr. Pilsbry since the completion of his report, have also been catalogued. These include the collection made in the Belgian Congo by Dr. Bequaert. Mr. Arthur Jacot spent several weeks during the year in identifying and arranging various collections of mollusks, hitherto unnamed. Since the death of Mr. L. P. Gratacap, the general shell collections have been incorporated with the section of General Invertebrates under Mr. Miner.

As in former years, a striking feature of the entomological work has been hearty and profitable coöperation with students outside of the Museum. In a way, an indication of the extent of one phase of this coöperation is the fact that approximately 15,000 specimens of insects are now out as loans to entomologists, to mutual advantage. As in former years, the New York Entomological Society has had charge of the Collection of Local Insects, and members of the society are in close touch with many of the activities of the department. The most important change in connection with the care of the collections has been the establishment of a system whereby the type specimens of species are kept in special pest-proof, fireproof cases apart from the general collection but still linked up with it by means of cross-reference labels. Counting types, cotypes and paratypes, we have more than 10,000 specimens of this absolutely

**General
Invertebrate
Collections****Insects
and
Spiders**

irreplaceable type material, and, by reason of the reputation the Museum is gaining among entomologists as a place where types are well cared for, we may expect a substantial increase in the number of type specimens entrusted to our keeping. It is not practicable to catalogue the individual specimens in a large entomological collection, except in the case of types or specimens which are especially important for some other reason. Therefore, without going to an unjustifiable expense in bookkeeping, a curator of insects rarely knows, even approximately, how many specimens there are in the general collection. However, during the past year an approximate census of certain parts of our collections was made. According to this census, we have in the general collection about 100,000 mounted specimens of ants, bees, wasps, etc.; 60,000 flies; 220,000 beetles; 50,000 Hemiptera; and 35,000 of the lower orders; making a total, as far as these are concerned, of nearly half a million specimens. However, this total does not include our large collection of butterflies and moths, the specimens on exhibition, the material in alcohol, or about 20,000 specimens which we have on deposit but which do not actually belong to the Museum. The grand total is certainly well over a million specimens of insects and spiders, probably representing at least forty or fifty thousand species. All these specimens are now as fully labeled as the data accompanying them when they were obtained will permit.

There has been no change in the regular entomological staff. Mr. H. G. Barber was employed for a month to work on the collection of Hemiptera. Dr. J. Bequaert has assisted with the collection of Congo wasps and ants.

In compliance with the policy adopted by the Museum in general, there have been no extensive field trips in the past year. During July and August, Mr. Miner spent
Field Work six weeks at the Marine Biological Laboratory in Woods Hole, Mass. He was accompanied by Messrs. Herman Mueller, Chris E. Olsen and Show Shimotori of the modeling staff, and through the courtesy of Director Frank R. Lillie and Assistant Director Gilman A. Drew, succeeded in obtaining many studies of marine life for use in connection with the



DEPARTMENT OF INVERTEBRATE ZOÖLOGY

THE BUTTERFLY GROUP

The Monarch Butterfly—migrating



new Bryozoa Group. Much information was obtained on the life histories of the forms to be represented, which will form the basis, not only for exhibition work, but for future research. Many notes, water-color sketches and preliminary models were made directly from life. Dr. Lutz spent considerable time during the summer in northern New Jersey obtaining material for exhibition purposes. He had three main objects in view: (1) an exhibit of spider webs, (2) an exhibit of the burrows of bees, solitary wasps and other insects, and (3) an exhibit showing the number of species of insects to be found in a suburban back yard. Approximately five hundred species were found in a lot 75 × 200 ft. in a town within easy commuting distance of New York City.

The Curator has made substantial progress in the study of the land snails belonging to the genus *Partula*, collected in the islands of Moorea and Raiatea. The Curator also has nearly completed two papers dealing with biological problems in the case of the American silk worm moth, *Philosamia cynthia*. Mr. Miner has continued work on "The Synonymy and Bibliography of American Myriapods." Dr. Van Name's paper on the West Indian Ascidians, which was practically completed last year, has been held in reserve pending his comparison and examination of certain other collections. A paper by Professor G. A. MacCallum, entitled "A New Species of Trematode (*Cladorchis gigas*) Parasitic on Elephants," was published early in the year as a part of the results of the Congo expedition. A paper by W. G. and G. A. MacCallum, entitled "On the Anatomy of the Leech *Ozobranchus branchiatus* Menzies," was also published in the *Museum Bulletin*. An excellent paper by Professor C. Branch Wilson, entitled "Parasitic Copepods of the Congo Collection," is now in press, which describes several new species of this interesting group. The paper on the Congo Mollusks by Professor H. A. Pilsbry is now ready for publication. Professor Pilsbry is also working on the Congo Cirripedes. The Crustacea of the Congo Collection will form the subject of several papers which will appear in the near future, the Brachyura being worked up by

**Research
and
Publication**

Miss Mary G. Rathbun of the United States National Museum, the Anomura, Macrura and Stomatopoda by Dr. W. L. Schmitt, and the Amphipoda by Dr. C. R. Shoemaker of the same institution. The Congo Myriapods have been assigned to Professor Ralph V. Chamberlain of the Museum of Comparative Zoölogy, Cambridge, Mass., while Mr. Miner is working on the West Indian and local Myriapods. Considerable work has also been done on the collections made by the Crocker Land Expedition; the Echinoderms have been identified by Dr. Austin H. Clark, the Parasitic Crustacea by Professor C. B. Wilson, the Parasitic Worms by Professor H. B. Ward, the Bryozoa by Professor R. C. Osburn, the Cirripedes by Professor H. A. Pilsbry, the Amphipods by Dr. C. R. Shoemaker, the Mollusks by Dr. Frank C. Baker and the Ascidians by Dr. W. G. Van Name. The following entomological papers have been published in the *Bulletin*: Chris E. Olsen, "North American Cicadellidæ in the Collection of The American Museum of Natural History"; Chas. W. Leng and Andrew J. Mutchler, "Insects of Florida, V. The Water Beetles"; Wm. Barnes and J. McDunnough, "Life Histories of North American Species of the Genus *Catocala*"; E. P. Felt, "Notes and Descriptions of Itonididæ in the Collection of The American Museum of Natural History"; A. H. Sturtevant, "A Synopsis of the Nearctic Species of the Genus *Drosophila (sensu lato)*"; Nathan Banks, "The Termites of Panama and British Guiana"; T. D. A. Cockerell, "Bees from British Guiana"; and J. Bequaert, "A Revision of the Vespidæ of the Belgian Congo Based on the Collection of the American Museum Congo Expedition, with a List of Ethiopian Diplopterous Wasps." A *Memoir*, "Illustrations of the North American Species of the Genus *Catocala* by Wm. Beutenmüller, with Additional Plates and Text," by Wm. Barnes and J. McDunnough, contains twenty-two plates, seventeen of which consist of a large number of excellent colored figures of adults and larvæ. Several entomological papers by various authors are in press. In addition, Messrs. Wheeler, Leng and Watson have published various papers in other periodicals, and Dr. Lutz's "Field Book of Insects, with Special Reference to Those of Northeastern United States, Aiming to Answer Common Questions" has

been published by G. P. Putnam's Sons. Dr. Wheeler has practically completed his report on the ants collected by the Congo Expedition. Dr. Lutz has continued his studies on the higher bees of North America. Mr. Mutchler, in coöperation with Mr. Leng, has nearly finished a study of West Indian fireflies and their relatives. Mr. Leng will soon publish a most valuable check-list of North American beetles. Mr. Watson's principal research has been concerned with the life histories of butterflies. Mr. Bequaert has devoted most of his time to general work in connection with the preparation of reports on the Congo Expedition.

A few of the noteworthy accessions of the year may be mentioned. A collection of Mollusks, Brachiopods and Corals, comprising 464 specimens of about 100 species, **Accessions** was purchased from Mrs. Ida S. Oldroyd of Leland Stanford Junior University. These were collected by Mrs. Oldroyd on the Pacific Coast, mainly in the neighborhood of Puget Sound. A collection of 250 specimens of shells, embracing about 100 species, was received in exchange from Mr. W. H. Weeks. A small collection of excellent examples of land snails from France was presented by Sergeant E. D. Crabb of the United States Army. About 2,000 specimens of Crustacea, Mollusca, Chordata, Annulata, Echinodermata and Myriapoda, collected by Mr. Barnum Brown in Cuba, have been given to the department. A collection of the types of Congo Mollusks, embracing 103 new species and subspecies, was presented by Mr. Joseph Bequaert, by whom they were collected. These have been described by Professor H. A. Pilsbry and form the basis of a portion of his paper on the Congo Mollusks about to be published. In entomology the most important accession has been the gift by Rev. H. R. Caldwell of a large collection of Chinese insects. These are valuable not only by reason of the fact that they represent many species not hitherto possessed by this Museum, but also because they come from a less explored region which is of especial interest in connection with the larger problems of geographic distribution that are constantly kept in mind by this department.

RECENT AND EXTINCT FISHES
EXISTING REPTILES AND BATRACHIANS *

BASHFORD DEAN, Honorary Curator
MARY CYNTHIA DICKERSON, Associate Curator of Herpetology

FISHES

The most notable exhibit of fishes opened to public view during 1918 is a group representing a large blue shark (*Prionace glauca*) accompanied by a brood of young. Two small comparative groups have been placed in the systematic cases showing tide-pool fishes of the northwest Pacific coast compared with those of the southeast Atlantic coast. The viviparous surf-fish in the former compares more or less with brightly colored coral reef species in the latter, and in the same way the northern sculpin-like fish resembles the southern goby; an eel-like northern blenny is contrasted with a shorter bodied tropical one. In addition, comparative models of lamprey and hagfish heads have been placed on exhibition; models of sexual variation in Arctic sculpins, and the evolution of a ventral sucking disk through various fish families, have been prepared. Many new specimens have been prepared to fill in the series in the systematic cases. The department preparator, Mr. F. F. Horter, has meanwhile been able to improve greatly his technique for casting alcoholic fishes for exhibition and reproducing their fins in celluloid. Besides the routine work required to keep the study collections in condition for ready reference, thirty study skeletons of various types of fishes have been prepared by Mr. Kessler, and arranged for reference. Such skeletons are constantly being used in the identification of material referred to the department, and are of service in the Columbia University course which deals with fishes. It is hoped at an early date to increase the present collection of fish skeletons to two or three times its size, and that space will be

* Under the Department of Ichthyology and Herpetology (see also pages 188 to 190).

Exhibition,
Care of
Collections,
etc.



DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

BLUE SHARK GROUP

found for its proper classification and arrangement. Due to war conditions, the department has not attempted to carry on any field work, the most important unworked material received being from museums in South America, through arrangements made by Dr. Eastman when in that country.

Progress on Dr. Dean's "Bibliography of Fishes" has been continuous, although not as rapid as had been planned, due to exigencies of the war. Mr. Arthur W. Henn, who was grouping and annotating the index cards, entered the United States Army early in April, leaving the work in the hands of Mrs. H. J. Volker, who had assisted him with it prior to that date; and she has since been occupied with translations, looking up and classifying references, preparing cards for the press, etc. On Dr. Eastman's return from South America he took up the references to fossil fishes until he was called to give his entire time to his duties at the War Trade Board. He was about to resume work on the Bibliography when word came to us of his tragic death in late September. Dr. E. W. Gudger spent six weeks during the summer at the Museum compiling additional references for the Bibliography. Major Dean's duties in connection with his Ordnance work have left him time for only a general supervision of the work.

The department has published "Fishes of the Vicinity of New York City," by J. T. Nichols, with an introduction by Wm. K. Gregory,—an illustrated *Handbook* of 118 pages, which, it is thought, will materially further the popular and scientific study of our local ichthyfauna. In addition, Mr. Nichols has published a short *Bulletin* article on fishes brought back by the American Museum's First Asiatic Zoölogical Expedition, and has in press others on marine Teleost fishes of the Crocker Land Expedition, and the revision of a marine genus (*Vomer*) based on specimens received from the Congo Expedition. Several new species are described in these articles. He has also published short articles and notes on fishes elsewhere, as follows: One on food fishes, in *The American Museum Journal*, later reprinted in the *Pacific Fisherman*, four in *Copeia*, five in the *Brooklyn Aquarium Bulletin*, and one in

Research
and
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Field and Stream, and has in hand the study of a fresh-water collection, mostly catfishes, from South America, loaned by the Museum at São Paulo, Brazil. A thirty-one page *Bulletin* issued in September is by Mr. Carl L. Hubbs of the Field Museum, Chicago, on "The Fishes of the Genus *Atherinops*, their Variation, Distribution, Relationships and History." This study was based partly on Lower California material borrowed from the American Museum, and partly on specimens from Mr. Hubbs' collection, a representative series of which has since been exchanged with this Museum.

REPTILES AND BATRACHIANS

The measure of accomplishment throughout the work of the department has been lowered during 1918 by the absence of assistants in various war capacities. This has affected especially the research on collections and bibliography; even local field work has been cut out altogether, and necessarily the work on exhibitions has been curtailed to some extent.

The additions to the catalogued collections for 1918 total 1,985 batrachians and 1,252 reptiles. Among these accessions, the most noteworthy are the following:

**Accessions
and
Exchanges**

First in importance, perhaps, is the Costa Rican and Colombian Cope collection received from the Philadelphia Commercial Museum in exchange for preparation in wax technique of cotton plants for a commercial exhibit. This exchange was negotiated just at the close of 1917, the work of the American Museum's part of the exchange, however, not being carried out until the first half of 1918. This Cope collection consists of 714 specimens and includes 24 types. It is not only of unusual historical interest because of Cope's work on it, but will prove of great value in connection with the department's researches on Central and South American faunas.

Second in importance of newly accessioned material is the Hallinan Chile collection of 668 specimens. This was received in an exchange for a series of 29 plaster casts of reptiles and amphibians (mainly local) to be used in the foundation of a Natural History Museum at Paterson, New Jersey. Among

other important accessions is a gift of 91 specimens, chiefly from Manitoba, by Mr. Ernest Thompson Seton, and collections of 79 and 104 specimens from the Far East and Cuba respectively, collected by Mr. R. C. Andrews and Mr. Barnum Brown, of the American Museum.

Among collections leaving the Museum is a loan shipment of more than 100 specimens of milk snakes and king snakes (*Lampropeltis*) to Dr. A. G. Ruthven, of the Museum of Zoölogy of the University of Michigan, for use in a revision of the genus by Mr. Frank N. Blanchard, and a gift of about 85 specimens of North American frogs to Dr. Boulenger, of the British Museum, to aid in his revision of the Ranidæ.

Much routine work has been done on the catalogues of collections and in the organization of the department reference library of separates.

The paper on "Amphibians collected by the Nicaragua Expedition," by Mr. G. K. Noble, came from press in June. It concerns species from the banks of remote Central American rivers, many of these being rare in collections, two described as new.

The paper on the turtles, crocodiles and lizards of the Congo, by Mr. Karl P. Schmidt, has been in course of publication in the American Museum *Bulletin* and is now ready for indexing. It stands as the third paper of Volume I of the Congo reports, 240 pages, with 26 plates, 22 distribution maps, and many figures in the text. A paper on the snakes of the Congo, also in the hands of Mr. Schmidt, was well under way at the time he left for war service in March.

Progress has been made on the research long in hand on Lower California and the Southwest, but so great have been the demands of administrative, exhibition, and editorial work on the time of the Associate Curator that the work is not yet ready for publication.

The major piece of exhibition work of 1917, the Florida Group, carried well over into 1918, not being opened to the public until early summer. The group was described in considerable detail in the report of last year (pp. 77-79). Work has gone on in completing preparations for the Gopher Group, the plan of which has been

**Research and
Publication**

Exhibition

modified from a floor group to a panoramic group of considerable size. The wax reproductions of turtles of various sizes have been made; also, the snakes and frogs, and the plants of many species, low oaks, ferns, and flowering herbaceous plants, which make up this Florida association. These await final assembling—which is delayed because of lack of available exhibition space. Much has been accomplished also in the construction of the wax plant accessories for the *Sphenodon* Group, and valuable accessions of the insect food of this species have been received through the courtesy of New Zealand museums. Some progress has been made in preparation of casts and skulls for an exhibit to illustrate the poisonous reptiles of North America. The work is completed on the casts of the gila monster, *Heloderma suspectum*; on the two rattlesnakes, *Crotalus atrox* and *C. adamanteus*; the two ground rattlers, *Sistrurus catenatus catenatus* and *S. miliarius*; the moccasin, *Agkistrodon piscivorus*; and the coral snake, *Micrurus fulvius*; of skulls, showing the evolution of the hollow fang and correlated structures, a series of nine is prepared.

In addition to the work of herpetology, the editorship of *The American Museum Journal* has been carried.

MAMMALS AND BIRDS *

J. A. ALLEN, Curator

Owing to the absence of the greater part of the staff and of several laboratory assistants in war service, the activities of the department have been greatly restricted. Accessions to the collections have also fallen below those of any previous year in its history. The same decline has marked its publications.

There have been no accessions from field expeditions, from which source have come in recent years about nine-tenths of the additions. Also few specimens have been purchased. These include about 700 bird skins from Peru and desiderata required for exhibition. The accessions by donation consisted mainly of animals in the flesh from

* Under the Department of Mammalogy and Ornithology (see also pages 191 to 193).

the New York City Department of Parks and the New York Zoölogical Society. Among the latter were many of much scientific value. About 80 hawks were received in the flesh from Justus von Lengerke.

An addition to the synoptic series of mammals has included a pair of elephant tusks secured by Mrs. Carl E. Akeley in the Mount Kenia region, Africa, and an extensive series of teeth, arranged with special reference to the teeth of mammals.

A collection of 709 bird skins, as mentioned above, was received from Peru early in the year, from Mr. H. Watkins, from whom, under a continuing agreement, the **Field Expeditions** Museum expects to receive further instalments, including mammals as well as birds.

After the return of the expeditions in 1917, there was a considerable interval when the department had no expeditions in the field. Later it became evident, after some preliminary work by Associate Curator Andrews on the mammals collected by him in Yunnan in 1916-1917, that additional material from other parts of Asia was necessary before satisfactory results could be reached respecting many of the groups represented. In June of the present year, Mr. Andrews was given authority to organize a Second Asiatic Zoölogical Expedition for work in northern China, where he arrived safely some months later and has since been successfully carrying out his plans of research. In all probability the work of this expedition will be carried on through the greater part of 1919.

About a month later a Third Asiatic Zoölogical Expedition, under the auspices of the American Museum of Natural History, was organized with a plan of work in the Orient covering several years. This was rendered possible through the generosity of Mr. Paul J. Rainey, well known for his successful natural history expeditions to British East Africa in 1911, in the interest of the United States National Museum. The whole expense of the expedition will be met by Mr. Rainey, who will lead the expedition.

Much progress has been made in the rearrangement of the study collection of mammals, most of this collection being now

fairly accessible and in safe storage. The cleaning of all the osteological material from the Congo Expedition has been completed and the specimens are being catalogued. The skeletons prepared during the present year include several elephants, giraffes, giant elands, buffaloes, forest pigs, okapis, and white rhinoceroses, the series of the latter being nearly complete from the foetal to the senile stage. More than 1,400 skulls and 250 skeletons have been cleaned during the present year. Much valuable osteological material still remains unavailable for use, some of it accumulated many years ago and held in storage till such time as it could be prepared. The tanning of skins of large mammals has been carried on successfully, comprising 255 from the Congo collection and 122 from the Asiatic collection.

The cataloguing of the bird collection has been forwarded as rapidly as possible, under the superintendence of Associate Curator Miller, who has had especially in hand the Nicaragua collection made by him in 1917. Many duplicates from the Colombian collections have been selected for exchange. The birds received in the flesh, from various sources, numbering in all some 200 specimens the present year, have been utilized by Mr. Miller for the study of the pterylosis and viscera.

The rearrangement of the exhibition collection of mammals, under the direction of Director Lucas, has made good progress during the year, as noted in the Director's report, pages 38 to 46.

A striking addition to the ornithological exhibit is a Hornbill Group, showing the peculiar nesting habits of these curious birds. An actual nesting site, in a section of a large mambao tree from the Belgian Congo, obtained by the American Museum Congo Expedition, illustrates their peculiar methods. They breed in holes in trees, and when the female begins to sit on the eggs the male plasters up the entrance to the nest and feeds the female through a small hole left for this purpose, she remaining a willing prisoner during the period of incubation.

Research work in mammals has been confined chiefly to the Congo collection, of which about one third has now been criti-



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

HORNBILL GROUP

From Congo Expedition collections

cally studied. Reports on several groups have been prepared and await publication. A paper on the insectivora is in press, to be followed by others on the Sciuridæ, Anomaluridæ, Idiuridæ and Viverridæ; work is in progress on the remaining groups of the Carnivora. The Curator has also in preparation a paper on the classification and nomenclature of the smaller spotted cats of Tropical America, the text and part of the illustrations having been finished. Associate Curator Andrews devoted several months to research work on the mammals collected by him on his recent Asiatic Expedition, nearly completing an important revision of the Serows and Gorals when interrupted by the preparations for his Second Asiatic Zoölogical Expedition in June last, mentioned above. Associate Curator Miller has continued his studies of the birds of Nicaragua, with a view to early publication of a comprehensive report on the ornithology of that country. Mr. George K. Cherrie has practically completed his work on the birds of the Roosevelt South American Expedition, but its publication has been delayed by his absence from the country on important war service.

Assistant Curator Anthony's "The Indigenous Land Mammals of Porto Rico, Living and Extinct," mentioned in the report of last year as then in press, was considerably delayed in publication, having been issued early in October of the present year. It forms part II of Volume II of the New Series of the *Memoirs* and is a monograph of 107 pages, 13 plates and 55 text figures, presenting the results of the author's explorations in Porto Rico of an extinct mammal fauna, the existence of which was previously almost unsuspected.

Three papers, based on the material of this department, have been published during the year in the *Bulletin*: "The external Characters, skeletal Muscles, and peripheral Nerves of *Kogia breviceps* (Blainville)," by H. von W. Schulte and M. de Forest Smith (Vol. XXXVIII, pp. 7-72, text figs. 1-21); "Memoranda upon the Anatomy of the Respiratory Tract, Foregut, and Thoracic Viscera of a foetal *Kogia breviceps*," by John D. Kernan and H. von W. Schulte (*idem*, pp. 231-267, text figs. 1-16); "The Skull of *Ziphius cavirostris*," by John D. Kernan (*idem*, pp. 349-394, pll. xx-xxxii). A paper by Robert Cush-

man Murphy, based on the Brewster-Sanford Collection of Birds, entitled "A Study of the Atlantic *Oceanites*," has been published in the *Bulletin* (Vol. XXXVIII, pp. 117-146, pll. i-iii, text figs. 1-7). A second ornithological paper, by Dr. Jonathan Dwight, on "The geographical Distribution of Color and of other variable Characters in the Genus *Junco*: a new Aspect of specific and subspecific Values" (idem, pp. 269-309, pll. xi-xiii (colored), and 5 maps, is based in part on material in this department. A by-product of the First Asiatic Zoölogical Expedition of the American Museum of Natural History is the narrative account, "Camps and Trails in China" (D. Appleton and Company) by Roy Chapman Andrews and Yvette Borup Andrews, issued in July last, illustrated with numerous half-tone plates from photographs.

Mr. Leo E. Miller's "In the Wilds of South America" (New York, Charles Scribner's Sons) is an attractive narrative of his six years of exploration in Colombia, Venezuela, British Guiana, Peru, Bolivia, Argentina, Paraguay and Brazil as a field assistant in the Department of Mammalogy and Ornithology. It is replete with intensely interesting information regarding many parts of South America never before visited by a naturalist. Besides his daily experiences as an explorer and collector in tropical jungles, on bleak paramos and in the pampas, the leading physiographic and biologic features of the regions traversed are intelligently presented, maps and nearly one hundred photographic illustrations adding to the realism of the text.

Near the close of 1917, the Curator of this department asked to be relieved of the editorial supervision of the *Bulletin* and *Memoirs*, in order that he might have more time for research. Dr. Frank E. Lutz, Associate Curator in the Department of Invertebrate Zoölogy, was designated as his successor and has had editorial charge of these publications during the present year.

Editorship

EXTINCT VERTEBRATES *

HENRY FAIRFIELD OSBORN, Honorary Curator
W. D. MATTHEW, Curator

In conformity with the general policy of the Museum, we have greatly reduced the amount of field work and have devoted our energies chiefly to the preparation of exhibits and to the entire rearrangement of our collections of fossil amphibians, reptiles and mammals, which now for the first time are in admirable order; also to research and publication.

Associate Curator Barnum Brown has completed the exploration of the Ciego Montero locality near Cienfuegos, Cuba, securing there a valuable collection of fossils chiefly of the Cuban Ground Sloth *Megalocnus*. On invitation of Dr. Thomas Barbour, of the Museum of Comparative Zoölogy, he also completed the exploration of a cave deposit near Soledad, first explored for fossils by that gentleman, and secured a large collection of fossil remains, mostly small rodents and insectivora. These collections add largely to the materials for study of the extinct animals of Cuba, and to the evidence as to former geographic relations of the West Indian islands.

Associate Curator Walter Granger completed the exploration of the Huerfano Basin of Eocene age near Pueblo, Colorado, commenced in 1916. He obtained a considerable collection of fragmentary but interesting specimens which record the transition from the Lower to the Middle Eocene epochs, and include a number of species new to science.

Mr. Albert Thomson continued explorations in the Snake Creek beds of Western Nebraska, securing a collection of fossil mammals of Pliocene age, including skulls of a large rhinoceros, a peccary and a rare rodent, besides much fragmentary material.

A number of valuable specimens of dinosaurs from the Red Deer River in Alberta have been secured through purchase.

* Under the Department of Vertebrate Palæontology (see also page 194).

The most important are a nearly complete skeleton of a carnivorous dinosaur, a partial skeleton of a new type of armored dinosaur and the skull of a horned dinosaur.

**Cretaceous
Dinosaurs**

Preparation of these specimens is under way. A fine complete skeleton of the Crested Dinosaur *Corythosaurus* and a skeleton of a large carnivorous type have been prepared as panel-mounts, and a third carnivorous dinosaur skeleton has been partly prepared for exhibition.

A fine skeleton of a long-jawed mastodon, *Megabelodon*, of the Pliocene epoch, has been purchased from Mr. Edward L.

**Megabelo-
don Skeleton**

Troxell. It was discovered by him near Dallas, South Dakota, in 1917, and constitutes one of the most important additions to our knowledge of the extinct Proboscidea.

The skeleton has been mounted and placed next to the Warren Mastodon in the Hall of the Age of Man. This is a fine illustration of the peculiar kinds of Mastodons which inhabited this country in the Tertiary period. Their remains though not rare are mostly fragmentary, and this is the first skeleton of a Tertiary mastodon in any museum in this country and the second in the world. (The other is in the Paris Museum.) This animal equaled the great American Mastodon in bulk but had shorter legs and a very long lower jaw. The trunk was probably supported beneath by the front of the jaw instead of hanging free as in the short-jawed mastodons and elephants.

A skeleton of the Fin-back reptile *Dimetrodon*, from the Permian of Texas, has been obtained by purchase and a series

**Permian
Reptiles**

of supplementary skeletons, of the same genus, but less complete, has been presented by the collector, Mr. Charles H. Sternberg. A valuable skeleton of a Pareiasaurian reptile from the Karroo formation of South Africa has been obtained through the good offices of Dr. Robert Broom. Mounting of three skeletons of *Moschops*, commenced three years ago but interrupted for a time, has been resumed. This animal is a large reptile from the Karroo formation of South Africa, the group of skeletons being a part of the Broom collection acquired by the Museum



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MAMMOTH AND REINDEER ON THE RIVER SOMME, FRANCE,
DURING THE REINDEER PERIOD, OLD STONE AGE



Copyrighted by the Museum, 1919

MASTODON, IMPERIAL BISON AND HORSE ON THE RIVER MISSISSIPPI
DURING THE SAME GEOLOGICAL PERIOD

DEPARTMENT OF VERTEBRATE PALEONTOLOGY

Painted under the direction of Honorary Curator Henry Fairfield Osborn for the Hall of the Age of Man by Charles R. Knight

GIFT OF MR. J. P. MORGAN

in 1913. Dr. Gregory, who has been making an especial study of the anatomy of the limbs in early reptiles, has undertaken to supervise the mounts. In this connection Mr. Charles Lang has devised a new apparatus for temporarily setting up and adjusting to any desired pose the trunk and limbs of fossil skeletons to be mounted. This enables us to adjust all parts of the skeleton exactly to the pose selected, and to make any desired changes rapidly and easily. The permanent mountings are then fitted to the skeleton as approved in its temporary mount.

An attempt has been made to complete the work on the Hall of the Age of Man, with the coöperation of Honorary Curator Osborn, Associate William K. Gregory, Miss Christina D. Matthew and Associate Curator Walter Granger, in palæontology, and Professor J. Howard McGregor, in anthropology. Three murals, painted by Mr. Charles R. Knight, under the direction of Professor Osborn, have been donated to the collection by Mr. J. P. Morgan, namely, the

Mississippi River Mastodon Scene,
Woolly Rhinoceros Steppe Scene,
Pampean Scene.

Studies are being made for three human group paintings, the Neanderthal, the Crô-Magnon and the Neolithic. Professor McGregor has prepared the Neanderthal head and body models, as part of his valuable series of restorations.

Further progress has been made upon the catalogue of types and figured specimens, the section on fossil mammals being now well advanced towards publication, and upon the rearrangement and relabeling of the collection of fossil mammals. The rapid accumulation of new collections, progress in their preparation, and study and research in palæontology and geology involve a good deal of such work to keep the collections even approximately up to date.

The most important research published during the year is Professor Osborn's memoir upon the later Tertiary Equidæ, in

**Cataloguing
and
Rearrange-
ment of
Study
Collections**

which all the known American types are redescribed and fully illustrated, many new species described from the large collections in this Museum, and the whole critically revised as to their geological and zoological relationships. He has also continued his researches upon the evolution of the Proboscidea, the skeleton of the great Amphibious Dinosaur *Camarasaurus*, and upon a series of *Moropus* skeletons. The monographs of the Sauropoda and Titanotheriidae have been further advanced toward completion.

Dr. Matthew has published further studies upon the Snake Creek fossil mammal fauna, and the revision of the Lower Eocene Insectivora, Rodents and Edentates, and has continued studies upon the extinct Camelidae, the fossil mammals of Cuba, and, in conjunction with Mr. Granger, upon the Eocene and Paleocene faunas.

Dr. Gregory has continued researches upon the evolution of the Primates, upon the lachrymal bone and upon the comparative myology of the limbs of vertebrates. He has in press a memoir dealing with the American Eocene lemuroid primates.

Mr. Brown has continued his studies upon Cretaceous dinosaurs and prepared field notes upon the geology of certain portions of Cuba, which will be supplemented by palæontological studies of the invertebrate material collected, undertaken by Miss O'Connell in the Geological Department. The vertebrate collections will be described in a memoir by Dr. La Torre and Dr. Matthew.

EXISTING AND EXTINCT RACES OF MEN *

CLARK WISSLER, Curator

The most notable progress in the development of collections was made in the somatic division. Many complete skeletons representing Asiatic and African peoples were secured, together with a large series of crania.

General Progress

Our laboratory series, from which type units are drawn for the construction of new exhibits, was also greatly strengthened. Opportunity was afforded for the photographing

* Under the Department of Anthropology (see also pages 194 to 197).

of typical American Indians, and, what is perhaps of greater interest, the securing of authentic photographs of American citizens of European descent, together with data as to their parentage, life history, etc. Yet, the most unique acquisition is the cast and photographic study of an African Bushman. This native was a fine specimen of his race, brought to this country by Barnum and Bailey's Show for exhibition in connection with their annual tour of the nation. By the courtesy of the management we were permitted to cast and photograph this most excellent type of a fast-vanishing race. A full life cast suitable for exhibition was taken, with pigmentation studies for its proper coloration. The work was in charge of Mr. Sigurd Neandross and the figure is about ready for installation. We also have on hand a representative series of the very few objects making up the objective side of Bushman culture and have reproduced on the walls of the African Hall some typical Bushman rock paintings. The latter have great interest because of their resemblance to paleolithic cave art. All together this will make an important addition to our African exhibit.

Mr. Carroll Richard Stegall, an American residing in Africa, presented a series of chipped stone implements brought to light in diamond mining operations on the edge of an extinct lake in the Congo. These implements are analogous to certain paleolithic forms already described from the same general region, but make a noteworthy addition to the Museum's collection. We now possess a good working series of stone implements from Middle and South Africa, which will be of the greatest usefulness in future investigations as to the nature and origin of the still elusive pre-iron culture of the Negro races.

It was our good fortune to have with us during the first half of the year Professor A. L. Kroeber of the University of California. An exchange of services was arranged between the Museum and the University of California, by which Associate Curator Robert H. Lowie took a position in the University and Professor A. L. Kroeber filled

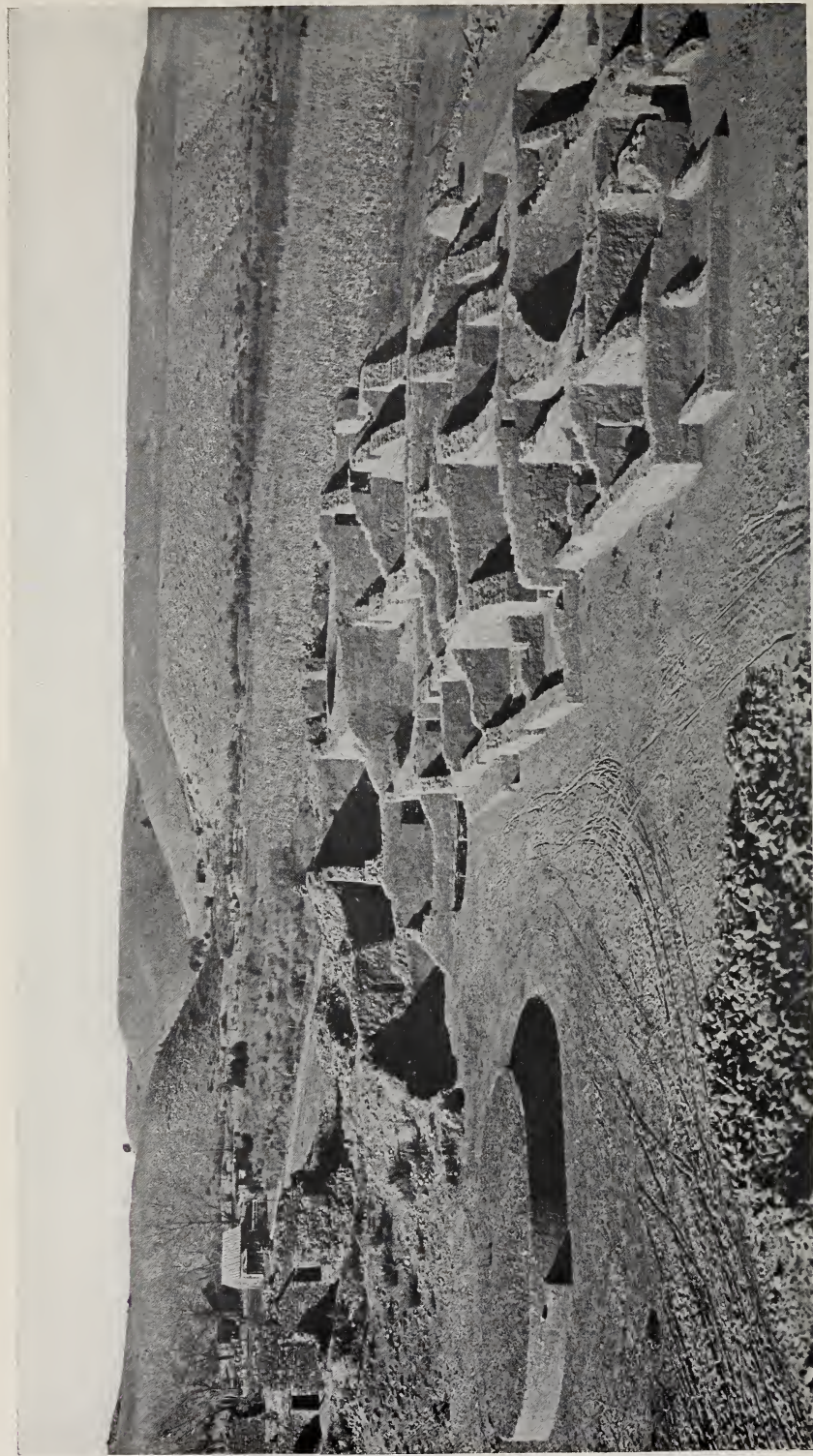
Accessions

Staff

the vacancy thus created here. Dr. Lowie gave regular university class instruction in anthropology at the University of California, while Professor Kroeber took up the reinstallation of our Philippine Island Hall, the preparation of labels for the same, and the writing of a visitors' handbook. As the groundwork for this, he made a thorough study of the Philippine problem, resulting in some new points of view regarding the origins of old Philippine culture. In coöperation with Assistant Curator L. R. Sullivan, he made a special study of the somatic types constituting the native Philippine population. This investigation resulted in a striking exhibit of Filipino types by the use of casts, busts and diagrams, now on view in the Philippine Hall. Professor Kroeber's reinstallation of the exhibits for the several cultural groups of these islands was completed last July. The details of this work were delegated to Mr. William A. Sabine. We hear from the University of California that in his lectures and class instruction Dr. Lowie rendered a real service to that institution, and in view of the fact that Professor Kroeber completed a very important and much-needed unit of work in this institution, I beg to report that this, our first experiment in curatorial exchange, has been an unqualified success, and to suggest that similar arrangements be entered into with other institutions.

In hall development, the most momentous accomplishment was the completion of the side panels for the illustrative mural series depicting the culture of the Indian tribes in Southern Alaska and on the Coast of British Columbia. There are sixteen panels, the following captions for which clearly indicate the scope and significance of the subjects treated: Securing Whales for Food, Nootka; Salmon Fishing, Kwakiutl; Gathering Bark for Food, Bella Coola; Preparing Fish Oil, Tsimshian; Building a Canoe, Haida; Weaving a Blanket, Tlingit; Welcoming the Salmon, Salish; Preparing Clams, Salish; Manual Arts, Tlingit; An Impersonation, Tlingit; Dancing to Cure the Sick, Tlingit; House Building Ceremony, Haida; Dog-eating Ceremony, Tsimshian; Welcoming Visitors, Bella Coola; Potlatch Ceremony, Kwakiutl; a Betrothal, Nootka. Before taking up

**Development
of Halls**



DEPARTMENT OF ANTHROPOLOGY

EXCAVATED AREA OF THE RUIN AT AZTEC, NEW MEXICO, 1917

This research is made possible through contributions of Mr. Archer M. Huntington

this work, the artist, Mr. Will S. Taylor, visited the Indians of the region under the guidance of former Associate Curator Harlan I. Smith, with whom jointly was developed the general scheme of treatment. In working out the subsequent details for the separate panels, Lieut. G. T. Emmons gave valuable information and criticism. Under the direction of Curator P. E. Goddard, the totem poles and other objects in the hall have been adjusted so as to give the mural panels an artistic setting. These very important secondary features of the North Pacific Indian exhibit add greatly to the habitat function of the installation, and will go far to make this, the Jesup North Pacific Hall, a presentation in every way worthy of its position as a special memorial to those two greatest patrons of the advancement of anthropology in the New World—Mr. and Mrs. Morris K. Jesup.

Expeditions for the year were confined to projects already under way and only such of these as it seemed unwise to interrupt. Particularly in view of the uncertain future
Field Work for the Pueblo ruin at Aztec, New Mexico, excavations were pushed forward on a more extensive scale than heretofore. To date, fully half the great structure has been uncovered, the walls repaired and protected and the collections resulting therefrom classified and studied. Among the specimens are many new and unexpected objects whose presence throws light on the prehistoric movements of populations in the Southwest. One of the minor problems in this survey, which has been provided for by Mr. Archer M. Huntington, was the chronological position and prehistory of Zuñi. This year, Mr. Leslie Spier examined ruins in the White Mountain district of Arizona. The results here were unexpectedly important in that they furnished the missing link in the chronological scheme worked out for other parts of the Zuñi region. The final publication upon this area is now in press and will give a comprehensive outline of the culture of which modern Zuñi is a part. Studies among the modern Zuñi were also conducted by Dr. Elsie Clews Parsons, assisted by Professor A. L. Kroeber. A collection of rare ceremonial objects was obtained and presented to the Museum by Dr. Parsons.

Mr. B. T. B. Hyde spent part of the summer at Aztec assisting Mr. Earl H. Morris in the excavation of that ruin, and in addition gathered supplementary data for future publications dealing with early explorations among the cliff-dwellings of Utah and in the Chaco Canyon, New Mexico. This work is now so far advanced that its early completion may be anticipated.

Dr. Herbert J. Spinden conducted extensive archæological and ethnological explorations in Central America and Colombia, making five collections from as many special areas. The ethnological operations were mostly in Guatemala and Nicaragua, while the archæological explorations were in the main confined to western Salvador, Honduras, the Miskito Coast, and the interior of Colombia. Collections were made, the most important being a fine series of pottery vessels from Salvador representing the Maya period. Among the ethnological collections mention may be made of a series of textiles from the Indians of Guatemala showing a native brown cotton and a purple dye extracted from the purpura shellfish, as well as other textiles illustrating designing by tie-dyeing, brocading, embroidery, etc. These will greatly enrich the Museum's extensive collections in the field of aboriginal textile art. Another important accomplishment was the mapping of three hundred miles of the Miskito Coast to show the tribal distributions and locations of present Indian villages.

The somatic collections of the department were completely overhauled and reorganized during the year by Assistant Curator L. R. Sullivan; the details of the work were in charge of Mr. B. E. Hoover. To economize space, the crania have been separated from the long bones and placed in individual containers, systematically shelved and grouped. A parallel arrangement of the skeletons proper will permit ready reassembling if occasion requires. The completion of four concrete storage rooms gave relief to the congested condition among the ethnological collections in charge of Mr. W. A. Sabine. Further, an opportunity was thus afforded to arrange more systematically our Philippine and Asiatic reference collections, which gives added efficiency to

**Study
Collections**

that part of our equipment. Similar reorganization is under way for our archæological collections. Assistant Curator N. C. Nelson has thoroughly overhauled the paleolithic and neolithic study series and also the early stone culture of Egypt and Africa. With the assistance of Mr. B. T. B. Hyde all the early and unclassified collections from the pueblo and cliff ruins of Southwestern United States have received similar treatment. For the latter, catalogue information has been brought up to date.

One of the essential functions of our organization is the making of contact between the person who has need of scientific help, on the one hand, and the scientist who knows the data on the other. Among the most important efforts in this direction are Research Associate M. D. C. Crawford's lectures and class talks to textile workers and designers, to acquaint them with the subject matter of primitive art and the modes of approach by which an appreciative insight into the subject may be gained. The large attendance and enthusiastic reactions of these audiences and classes have been gratifying to all concerned. In addition, the facilities of the Museum have been placed at the disposal of classes and students from the various art schools of the city, some of which now hold regular sessions in the laboratories of the department.

The series of January lectures in anthropology, designed for special students of anthropology and related subjects, was given by Professor A. L. Kroeber. The subject was a study of primitive social philosophy as exemplified in four types of aboriginal culture: The Yurok, Legalists; The Wintun, Indifferents; The Luiseño, Mystics; The Mohave, Dreamers. It was clearly demonstrated in these lectures that these primitive cultures retained their individuality because they contained a determining cultural nucleus which is not some mystical thing but a fairly definite system of philosophy, a persistent and well-nigh all-determining attitude towards life.

The development of popular publications has also made some progress. Two *Handbooks* are ready for publication, one on the "Peoples of the Philippines" and the other on "The Siberi-

Popular
Lectures
and
Publications

ans." The early appearance of these will greatly facilitate the study of these sections in our exhibition series.

Twelve scientific papers were published during the year in the *Anthropological Papers*, by members of the department staff.

ANATOMY AND PHYSIOLOGY *

RALPH W. TOWER, Curator

Perhaps the most important work accomplished by the department was the assistance which it was possible to give to the War Department Local Board 129 of the Office of the Provost Marshal. In the middle of the year this Board undertook to make more thorough examinations and more detailed records of the draftees than heretofore. It was early recognized by the medical examiner, Dr. Jesse G. M. Bullowa, that a uranalysis of each individual would be of value to the medical examiners. This not only proved to be true, but the results were of vital importance to many of the examinees since a large number of unsuspected cases of nephritis, diabetes and other diseased conditions were discovered; such were advised to seek immediate medical treatment. All of the uranalyses were made by Mr. Charles F. Herm, who also, at the request of the Department of Anthropology, made the anthropometric computations, which were most detailed, comprising twenty-eight different measurements upon each individual. In connection with this work Mr. Herm devised a unique and practical caliper which recorded from one position both the bigonial width and bigonial length of the face.

In the early part of the year opportunity was found to pursue further the investigations on the development of the red blood corpuscles in birds and amphibians. Many interesting observations have been made and a program for more detailed study has been outlined.

The department has already begun to prepare a comparative collection of brains and spinal cords for the purpose of statistical and topographical study as well as for museum demon-

* Under the Department of Anatomy and Physiology.



DEPARTMENT OF PUBLIC HEALTH
POTENTIAL FOODS OF OUR COASTS
A part of the conservation Food Exhibit

stration. It is proposed to establish series not only of complete specimens by the dry and wet methods, but of those prepared in sections suitable for both macroscopic and microscopic study. Several scientists of the city have expressed their willingness to collaborate in this work, which guarantees the success of the undertaking.

The department has prepared and placed on exhibition a series illustrating the adaptation of the fore limb for flight. There has also been prepared and made ready for installation a series demonstrating the adaptation of limbs for swimming. There have been prepared also 741 skulls and 95 skeletons.

PUBLIC HEALTH *

CHARLES-EDWARD AMORY WINSLOW, Curator

With the development of the world war it became evident that the dual necessity of conserving food for the stricken populations of Europe and maintaining at a maximum our own national vitality made the problems of food hygiene and food conservation of paramount importance. It was felt that the resources of our Department of Health could be of greatest value in the national crisis if they were directed intensively into this channel; and post-war conditions seem to render the need for continued educational work along this line equally imperative.

Hygiene of the Diet and Food Conservation

The Food Exhibit which a year ago filled six museum cases has therefore been developed and extended until it now occupies eleven cases. The exhibit as now organized presents in graphic form the needs of the human body for energy and for building stones, and shows how these needs can most economically be met. Special emphasis is laid on the need for mineral salts and for the mysterious food elements called vitamins, and models illustrate the contribution made by the commoner foods to the daily need of energy, protein, iron and lime. In order to make the lessons of food hygiene as practical as possible,

Scope of Food Exhibit

* Under the Department of Public Health (see also page 197).

adequate daily dietaries are exhibited for an individual, based on a moderate and on a restricted income, with specimens and models illustrating a complete weekly food supply for a family of five persons, so adjusted as to meet all essential physiological needs at a minimum cost. Special cases are devoted to the methods of conserving wheat, meats, fats and sugar, required or recommended by the United States Food Administration.

The Food Exhibit was shown for a period of six weeks in May and June, 1918, in the gallery of the Grand Central Terminal, and for a week in June as part of the Food Show in the Grand Central Palace. It was brought back to the Museum in the summer and is now installed, through the courtesy of the Department of Woods and Forestry, in the center aisle of the Forestry Hall on the ground floor of the Museum.

It is gratifying to note that this,—undoubtedly the most complete exhibit of food hygiene prepared in this country,—has served as a model for exhibits in many parts of the United States and has therefore exerted an educational influence far beyond the circle of those who have actually visited the Museum.

It is planned to develop the Food Exhibit to a considerably greater extent during the coming year and to supplement its basic hygienic and nutritional data with material illustrating the broader problems of the world's food supply from the standpoint of production and distribution. It is hoped too that it may be possible to prepare printed material in the form of one or more guide leaflets which will present in simple form the chief lessons of food hygiene and food conservation, since we have received a constant and urgent demand for literature of this kind.

Outside of the Food Exhibit the principal addition to our exhibition material has been the installation of a model of the yellow fever mosquito, *Aedes calopus*. This beautiful model, which was prepared by Mr. B. E. Dahlgren, is 50 times natural size and completes the Museum's series of giant models of the important insect-carriers of disease: the malaria mosquito (in

**Plans for
the Future**

**The Yellow
Fever
Mosquito**

the Darwin Hall) and the fly, the flea, the louse and the yellow fever mosquito (in the Hall of Public Health). A profusely illustrated leaflet of 73 pages on Insects and Disease by C.-E. A. Winslow and F. E. Lutz has been issued during the year as a guide to this field of zoölogy and public health.

The Museum of Living Bacteria has proved of special service during the year in connection with a number of sanitary and industrial problems created by the war. Research workers in the cantonments and other army medical laboratories have made frequent calls for cultures to be used in connection with studies of wound diseases and respiratory infections, and the manufacture of glycerin by biological methods has been successfully accomplished by the use of a culture of yeast obtained for our collection from Germany some years before the war. The value of our collection of living bacterial types is strikingly illustrated by this latter occurrence; for, so far as we are aware, this particular organism could not a year ago have been found in America outside of the laboratories of the American Museum.

The total number of strains of microbes now under cultivation is 655. During the year ending December 1, 1918, 3,075 cultures were sent without charge to laboratories of health departments and universities, making a total of 22,055 cultures distributed since the opening of the laboratory in 1911. Sixty-six new institutions have received our cultures during the year, making 701 institutions in all which have benefited by this service.

Changes in staff due to war conditions have interfered materially with the research work of the department. It has been possible, however, to make substantial progress in the revision of the classification of one important group of bacteria, the staphylococci of the skin, which play an important part in the milder wound diseases, and Curator Winslow has continued to serve as Chairman of the Committee on Classification of the Society of American Bacteriologists.

Museum of Living Bacteria

Research on Bacterial Classification

Dr. T. G. Hull and Mr. William Rothberg both entered the military service during the year, and for the last six months the bacteriological collection has been in charge of Miss E. I. Parsons (Vassar, 1917) and Miss Rebecca Berland. The development of the Food Exhibit has been carried forward with marked enthusiasm and ability by Miss Mary Greig, whose services are made available to us by a coöperative arrangement with Teachers College.

**Changes in
Staff and
Outside
Activities**

Among other outside war activities Curator Winslow had charge, for a period of six weeks during the summer, of the instruction in bacteriology and public health at the Red Cross Training Camp for Nurses at Vassar College; and as Consultant in Industrial Hygiene to the U. S. Public Health Service he has conducted extensive investigations in regard to the safeguarding of the health of munition workers.

Curator Winslow has published during the year the second of a series of two elementary textbooks on Healthy Living, which are in large part illustrated by material from the Public Health exhibits of the Museum, and which it is hoped may serve to extend the influence of Museum educational methods into the wide field of elementary education.

THE LIBRARY *

RALPH W. TOWER, Curator

The Library has felt to a degree the unusual circumstances imposed by war conditions. Very little printed matter has been received from European countries, and the International Exchange Service appears to have been suspended for the time being. Each member of the staff has been engaged in one way or another in war or relief work which has demanded a certain amount of time and exacted a great amount of energy. Much commendation must be attributed to these assistants, who, while being faithful to their vocation, have toiled long and assiduously and made each day count for two, thus being a potent factor in molding the world's history.

The Library was extremely fortunate in securing the services

* Under the Department of Books and Publications.

of Mr. K. P. Wang, who has classified, catalogued and arranged the collection of Chinese books which were procured on the East Asiatic Expedition. Mr. Wang, who has had long experience at similar work in the Library of Congress, was able to introduce a thoroughly tried and practical system, which now makes these Chinese books, containing some unique titles, thoroughly available to any scholar who may wish to consult them.

To make the natural history papers and monographs contained in our ever increasing Russian series accessible to the scientist has been one of the important and difficult problems. Miss Alla Kretchman, a Russian scholar, has undertaken this work, and it is hoped that eventually an English résumé of all the Russian papers may be included in each volume of the various publications.

During the year two assistants have been lost to the department. It is with extreme regret that we are obliged to chronicle the death on October 29 of Mr. George Chamberlain, who had been connected with the Library in various capacities for eight years. Mr. Chamberlain was a faithful workman and a gentleman. For the last three years he had charge of the Museum's publications. On October 1, Miss Amy Hepburn resigned to accept a position in the library of Columbia University.

Recognizing the request of the President to curtail obligations in every possible way, only one appointment, that of Miss Helen Gunz, has been made to fill the vacancies caused by the loss of the two experienced assistants mentioned.

The Library has been able to accumulate the nucleus of a section on Folk Lore by the purchase of something more than one thousand titles. In making the selection of these
Accessions books, Dr. W. L. Hildburgh, through his intimate knowledge of the subject, has greatly assisted in procuring the excellent collection that we now possess.

Other important additions to the Library are :

A valuable collection of works, largely in the Spanish language, dealing with the history and archæology of Peru, Bolivia, Central America and Mexico, comprising the library

of the late Adolf F. Bandelier. In the neighborhood of four hundred volumes are included in the lot.

A 1785 edition of Cook's Voyages, entitled *A Voyage to the Pacific Ocean, Undertaken by the Command of His Majesty for Making Discoveries in the Northern Hemisphere*. Volumes I and II were written by Captain James Cook, Volume III by Captain James King. An atlas accompanies the edition. This is the gift of Dr. T. Mitchell Prudden.

A first edition (1837), in six volumes, of a *History of the Indian Tribes of North America* with Biographical Sketches and Anecdotes of the Principal Chiefs, by Thomas L. M'Kenney and James Hall. This unusual work is embellished by 120 large colored portraits from the Indian Gallery in the Department of War at Washington.

Through Dr. Herbert J. Spinden has come a notable collection of about twenty volumes concerning the language of the natives of the Miskito Coast.

The Grammar of Ornament, by Owen Jones, published in London in 1868, covers all stages of decorative designing, from the work of savage tribes to the most ornate productions of European peoples. It is fully illustrated with 112 colored plates.

The Philippine Islands, 1493-1898, by Emma H. Blair and James A. Robertson, being explorations by Early Navigators with Descriptions of the Islands and their Peoples as related in Books and Manuscripts, showing the conditions of those Islands from their earliest relations with European Nations to the close of the nineteenth century and translated from originals. This work is in fifty-five volumes, published in Cleveland, 1903-1909.

The Travels of Peter Williamson Among the Nations and Tribes of Savage Indians in America, written by himself, which gives an account of their principles, religious, civil and military, published in Edinburgh, 1768.

British Fresh-Water Fishes, by Rev. W. Houghton; this work is illustrated with a colored figure of each species drawn from nature by A. F. Lydon, London, 1879.

The Lepidoptera of the British Isles, in eleven volumes, by Charles G. Barrett, London, 1893-1907.

L'Abeille—Journal d'Entomologie, Rédigé par S. de Marseille, Volumes I–XXVI, Paris, 1864–1889.

The Osborn Library has issued during the year Volume VI of *Fossil Vertebrates in the American Museum of Natural History*. This volume is composed of the collected papers from the department which have appeared in the *Bulletin* of the American Museum during the years 1915–1917. The distribution of exchange publications has been greatly curtailed and likewise incoming exchanges have been greatly decreased, both unavoidable under the present circumstances.

The publications of The American Museum of Natural History for the current year are composed of the *Annual Report*, the *Bulletin*, the *Memoirs*, the *Anthropological Publications Papers*, the *American Museum Journal*, the *Handbook* and the *Guide Leaflet*.

The *Annual Report* gives each year a summary of the administrative, scientific and educational activities of the institution; it is particularly pertinent to all who are interested in the welfare and progress of The American Museum of Natural History.

The *Bulletin* is a strictly scientific publication, giving in a number of separate articles the results of the research in the various departments other than Anthropology. These are of interest mainly to the professional student. During 1918 the *Bulletin* contained nine articles on Invertebrate Zoölogy, four on Ichthyology and Herpetology, five on Mammalogy and Ornithology and three on Vertebrate Palæontology.

The *Memoirs* are composed of scientific monographs, exhaustive in their nature and extensively illustrated. During 1918 three *Memoirs* have been issued—one on the fossil horses of North America, another on the living and extinct land mammals of Porto Rico and a third being illustrations in color of the North American *Catocala*, a genus of moths.

The *Anthropological Papers* are devoted exclusively to the results of field work and other researches conducted by the anthropological staff. In the year 1918 twelve parts have appeared, dealing with various phases of the life of the Black-foot, Apache, Crow, Yukaghir, Eskimo and Philippine tribes.

The *American Museum Journal* completed its eighteenth volume, which was particularly rich in interesting and popular articles relating to natural history, anthropology and travel. This periodical has proved to be one of the most entertaining and instructive in the field of popular biology.

A *Handbook* entitled "Fishes of the Vicinity of New York City" and two *Guide Leaflets*—one being the third edition of the "General Guide to the Exhibition Halls" and the other "Insects and Disease"—have been published. There has also been issued a brochure on "Free Education by The American Museum of Natural History in Public Schools and Colleges," which gives the history and status of Museum instruction and its extension to the schools of Greater New York and vicinity.

GENERAL SUMMARY

In reviewing the first fifty years' work of the Museum, we observe that it has broken away from many old museum traditions and customs and has been constantly striking out along new lines in every branch of its activity. In exploration, while making North America our chief concern, we have reached out into South America, Africa, Asia, and, in certain branches, into Europe itself. The natural history of our new colonial wards, the Philippines and Porto Rico, are matters of intimate concern. In South America, through a series of expeditions we are exploring every part of the continent and have established most cordial personal as well as scientific relations.

This is in keeping with the world-wide extension of American interests and influence and is part of the inevitable participation of America in the world's affairs. Neither the American Museum, nor our Government, nor our people can remain isolated or bound by the confines of our own continent. Thus, while more than ever an *American* Museum, our institution has become a *world* Museum. In increasing degree it is bringing all parts of the world within the view of the millions of people within our City walls who can never travel and never explore and whose only means of finding the inspiration of travel is through looking into the mirror which we are endeavoring to hold up to nature in all of its wonderful aspects.

We trust that this great purpose of the Museum will bring to it as large an increase of popular support on the part of the citizens and taxpayers as it has already received of personal support through the munificence of Morris K. Jesup, Mrs. Russell Sage, J. Pierpont Morgan and others in our distinguished list of Founders and Benefactors.

Respectfully submitted,

HENRY FAIRFIELD OSBORN,

President.



FINANCES, MAINTENANCE, ENDOWMENT

The character of the work of the Museum is so special and at the same time so varied that the proper recording of all expenditures is a somewhat complicated process. Simplicity of statement is aimed at in the Report of the Treasurer. The changes in the accounting system, devised by the Bursar, Mr. Frederick H. Smyth, last year, especially the method of receipt by check indorsement, have resulted in a considerable saving in clerical work. At the same time the demands on the Bursar's staff, because of Liberty Loan and Red Cross contributions, have been greater than ever.

The financial transactions of the Museum are recorded under five major headings, namely,

Endowment and Investment Account
 City Maintenance Account
 General Account
 Morris K. Jesup Fund Account
 Special Funds Account

and four minor headings, namely,

Crocker Land Expedition Fund Account
 Corporate Stock Account
 Incidental Account
 Museum Building Fund Account.

A summary of the classifications of the disbursements of these respective funds will be found on pages 108 to 123.

The Endowment and Investment Account pertains entirely to the receipts and disbursements of the capital of the Permanent Endowment. The principal additions to the Endowment during the year consisted of membership fees, amounting to \$6,900, applied to the General Endowment Fund, and the bequest of Anson W. Hard, amounting to \$5,000, which is a special endowment for the Library and which has been designated by

**Endowment
 and
 Investment
 Account**

the Trustees as the Anson W. Hard Library Fund. All available cash of the Permanent Endowment for the year has been invested by the Finance Committee in Liberty Bonds. The total Endowment on December 31, 1918, amounted to securities valued at \$7,996,975 and uninvested cash of \$1,077.51.

The City Maintenance Account contains only the transactions of the receipts and disbursements of the moneys received from the City for operating expenses. For 1918, the receipts from the City were \$216,900 for salaries and expenses and \$8,100 for special repairs, making a total of \$225,000. The actual operating expenses legally chargeable to the City amounted to a total of \$313,348.43 and the Trustees therefore were obliged to contribute from their own funds \$88,348.43 for maintenance purposes.

**City
Maintenance
Account**

The Trustees' unrestricted funds are received and disbursed through the General Account. The principal items of income are as follows:

**Trustees'
General
Account**

Income from the General Endowment	\$56,957.64
Membership fees	30,508.00
Sales and Exchanges	5,425.08
Personal contributions of Trustees	29,350.00

According to the terms of Mr. Jesup's will, the income of the Morris K. Jesup Fund can be applied only to research, exploration and the enrichment of the collections.

**Morris K.
Jesup Fund
Account**

The income from this fund in 1918 was \$278,036.09 and the transactions pertaining to it are recorded in the Morris K. Jesup Fund Account.

The Special Funds Account, as the name implies, is composed of a number of distinct special funds which are entirely independent of each other and which can be applied only to the specific purposes for which they are given. In 1918 the net receipts for these special purposes amounted to \$24,600.80.

**Special
Funds
Account**

The Crocker Land Expedition Fund Account was a temporary account, established in connection with the Crocker Land Expedition to the Arctic. The return of this expedition in 1917 and the termination of its affairs have made this a rather inactive account during the year. In the Corporate Stock Account are recorded the receipts and expenditures connected with the equipment work met through appropriations of corporate stock by the City. These transactions are entirely independent of the appropriations for maintenance. In 1918 the receipts amounted to \$14,757.90. The Museum Building Fund Account contains the funds that have been contributed to the Museum for new building, amounting to \$108,174.46. Inasmuch as, owing to the high cost of building, actual building operations have been postponed, this money has been placed at interest and the Finance Committee has invested \$107,350 in Liberty Loan Bonds. In connection with the meetings of scientific societies and in a few other cases the Museum is called upon to handle small sums which are not directly Museum finances. Such items are recorded in a special account designated as the Incidental Account.

The Treasurer of the Museum is also the Treasurer of the Pension Fund of the Museum. The full transactions of the receipts and disbursements of the Pension Fund will be found in the Report of the Pension Board which is published as an Appendix to the *Annual Report*.

Pension
Fund
Account

Respectfully submitted,

H. P. DAVISON,
Treasurer.

*SUMMARY OF CLASSIFICATION
THE AMERICAN MUSEUM OF NATURAL HISTORY*

	JESUP FUND		GENERAL ACCOUNT		CITY MAINTENANCE ACCOUNT	
	Salaries	Other Items	Salaries	Other Items	Salaries	Other Item
Scientific	\$152,126.78	\$88,259.64	\$30,887.68	\$18,388.40	\$20,639.69	\$15.65
Administration	918.03	527.16	16,917.91	33,157.31	122,453.07	15,112.62
Heating and Lighting ...			516.63	1,730.62	13,943.51	17,419.59
Repairs and Construction of Heating and Lighting				2,042.34	2,020.36	4,089.02
Repairs and Construction			1,951.96	4,525.77	23,005.91	6,300.58
General Expenses		2,533.98	27,381.71	5,397.89		
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$153,044.81	\$91,320.78	\$77,655.89	\$65,242.33	\$182,062.54	\$42,937.46
Totals by Account	*\$244,365.59		\$142,898.22		\$225,000.00	

* In addition to this amount, in 1918, the following contribution was made by the
Jesup Fund Account.....\$16,784.02
for the Crocker Land Expedition in reimbursement of disbursements of previous years.

DISBURSEMENTS OF
THE YEAR ENDING DECEMBER 31, 1918

SPECIAL FUNDS ACCOUNT		CROCKER LAND EXPEDITION FUND ACCOUNT		CORPORATE STOCK ACCOUNT	GRAND TOTALS		TOTALS 1918	TOTALS 1917
Salaries	Other Items	Salaries	Other Items	Salaries	Salaries	Other Items		
1.41	\$15,431.65	\$154.50	\$2,467.52		\$207,430.06	\$124,562.86	\$331,992.92	\$428,562.53
					140,289.01	48,797.09	189,086.10	164,589.65
					14,460.14	19,150.21	33,610.35	27,349.59
					2,020.36	6,131.36	8,151.72	5,922.64
8.87				\$14,757.90	39,964.64	10,826.35	50,790.99	49,771.66
					27,381.71	7,931.87	35,313.58	19,735.38
0.28	\$15,431.65	\$154.50	\$2,467.52	\$14,757.90	\$431,545.92	\$217,399.74	\$648,945.66	\$695,931.45
19,301.93		2,622.02		\$14,757.90		\$648,945.66		

FRED H. SMYTH, *Bursar.*

February 3, 1919

SUMMARY OF CLASSIFICATION
THE AMERICAN MUSEUM OF NATURAL HISTORY

	JESUP FUND		GENERAL ACCOUNT		CITY MAINTENANCE ACCOUNT	
	Salaries	Other Items	Salaries	Other Items	Salaries	Other Item
Scientific	\$152,126.78	\$88,259.64	\$30,887.68	\$18,388.40	\$20,639.69	\$15.65
Administration	918.03	527.16	16,917.91	33,157.31	122,453.07	15,112.62
Heating and Lighting ...			516.63	1,730.62	13,943.51	17,419.59
Repairs and Construction of Heating and Lighting				2,042.34	2,020.36	4,089.02
Repairs and Construction			1,951.96	4,525.77	23,005.91	6,300.58
General Expenses		2,533.98	27,381.71	5,397.89		
	<u>\$153,044.81</u>	<u>\$91,320.78</u>	<u>\$77,655.89</u>	<u>\$65,242.33</u>	<u>\$182,062.54</u>	<u>\$42,937.46</u>
Totals by Account	*\$244,365.59		\$142,898.22		\$225,000.00	

* In addition to this amount, in 1918, the following contribution was made by the Jesup Fund Account.....\$16,784.02 for the Crocker Land Expedition in reimbursement of disbursements of previous years.

OF DISBURSEMENTS OF
FOR THE YEAR ENDING DECEMBER 31, 1918

SPECIAL FUNDS ACCOUNT	CROCKER LAND EXPEDITION FUND ACCOUNT	CORPORATE STOCK ACCOUNT	GRAND TOTALS		TOTALS 1918	TOTALS 1917		
			Salaries	Other Items				
Salaries	\$3,621.41	\$15,431.65	\$154.50	\$2,467.52	\$207,430.06	\$124,562.86	\$331,992.92	\$428,562.53
					140,289.01	48,797.09	189,086.10	164,589.65
					14,460.14	19,150.21	33,610.35	27,349.59
					2,020.36	6,131.36	8,151.72	5,922.64
248.87		\$14,757.90			39,964.64	10,826.35	50,790.99	49,771.66
					27,381.71	7,931.87	35,313.58	19,735.38
<u>\$3,870.28</u>	<u>\$15,431.65</u>	<u>\$154.50</u>	<u>\$2,467.52</u>	<u>\$14,757.90</u>	<u>\$431,545.92</u>	<u>\$217,399.74</u>	<u>\$648,945.66</u>	<u>\$695,931.45</u>
\$19,301.93	\$2,622.02	\$14,757.90			\$648,945.66			

FRED H. SMYTH, *Bursar.*

February 3, 1919

FINANCIAL STATEMENT

1918

PERMANENT ENDOWMENT

Morris K. Jesup Fund:	
Bonds	\$6,488,998 07
Stocks (Bequest Value) ..	183,325 00
	\$6,672,323 07
General Endowment Fund*	1,270,767 83
Special Endowment Funds:	
Matilda W. Bruce Fund.....	11,000 00
Jonathan Thorne Memorial Fund.....	26,884 10
Margaret Olivia Sage Fund	11,000 00
Anson W. Hard Library Fund.....	5,000 00
	\$7,996,975 00
Uninvested Cash:	
General Endowment Fund.....	1,074 62
Margaret Olivia Sage Fund.....	2 89
	\$7,998,052 51

MUSEUM BUILDING FUND

Bonds	\$107,350 00
Cash	824 46
	\$108,174 46

* Principal contributors to the General Endowment Fund:

Hugh Auchincloss	\$10,223 56	Morris K. Jesup	\$225,000 00
Samuel D. Babcock	5,000 00	Frank W. Kitching	10,043 00
Anna B. Bliss	5,000 00	Charles Landon	5,000 00
Emil C. Bondy	10,000 00	Solomon Loeb	5,000 00
George S. Bowdoin	5,000 00	D. O. Mills	125,000 00
James M. Constable	25,000 00	J. Pierpont Morgan	325,000 00
Benjamin P. Davis	22,799 25	Oswald Ottendorfer	30,000 00
Wm. E. Dodge	5,000 00	Percy R. Pyne	45,000 00
Wm. E. Dodge	10,000 00	Wm. Rockefeller	10,000 00
Mrs. Martha T. Fiske	10,000 00	Wm. R. Sands	10,000 00
Frederika Gade	5,000 00	Wm. C. Schermerhorn	5,000 00
H. O. Havemeyer	25,000 00	Mrs. Mary Stuart	50,000 00
Miss S. M. Hitchcock	5,000 00	Charles E. Tilford	25,070 37
C. P. Huntington	5,000 00	Mrs. Emily N. Trevor	30,098 90
Henry Iden	10,000 00	Cornelius Vanderbilt	25,000 00
D. Willis James	5,000 00	Wm. H. Vanderbilt	50,000 00
	Henry Villard		\$5,000 00

The income of the Permanent Endowment is the chief source of income of the General Account and of the Morris K. Jesup Fund Account.

ENDOWMENT AND INVESTMENT ACCOUNT

RECEIPTS

1918

GENERAL ENDOWMENT FUND:

Balance	\$2,337 75	
Fellows	1,000 00	
Life Members	5,900 00	
Refund of part of amount paid for Expenses, etc., of Bondholders' Committee, Chicago, Rock Island & Pacific Ry.	33 17	
		\$9,270 92

MORRIS K. JESUP FUND:

Balance		6,303 70
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MARGARET OLIVIA SAGE FUND:

Balance		2 89
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ANSON W. HARD LIBRARY FUND:

Bequest of Anson W. Hard.....		5,000 00
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INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1918.....		120 21
		\$20,697 72

Examined and Approved	<table style="border: none;"> <tr> <td style="font-size: 2em; vertical-align: middle;">{</td> <td style="padding: 0 10px;"> FELIX M. WARBURG THOMAS DEWITT CUYLER WILLIAM AVERELL HARRIMAN </td> <td style="font-size: 2em; vertical-align: middle;">}</td> </tr> </table>	{	FELIX M. WARBURG THOMAS DEWITT CUYLER WILLIAM AVERELL HARRIMAN	}	<i>Auditing Committee</i>
{	FELIX M. WARBURG THOMAS DEWITT CUYLER WILLIAM AVERELL HARRIMAN	}			

ENDOWMENT AND INVESTMENT ACCOUNT

DISBURSEMENTS

1918

GENERAL ENDOWMENT FUND:

Purchase of Bonds \$8,196 30

MORRIS K. JESUP FUND:

Purchase of Bonds 6,303 70

ANSON W. HARD LIBRARY FUND:

Purchase of Bonds 5,000 00

INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances, General
Account 120 21

CASH ON HAND December 31, 1918 1,077 51

\$20,697 72

H. P. DAVISON, *Treasurer*

E. & O. E.

NEW YORK, *December 31, 1918*

CITY MAINTENANCE ACCOUNT

RECEIPTS

1918

Capital Fund:

Cash on hand January 1, 1918..... \$15,000 00

Department of Parks:

Appropriation for 1918:

Salaries and Expenses..... \$216,900 00

Special Repairs 8,100 00

Total net receipts for the maintenance of
all departments 225,000 00

Interest on Credit Balances:

Earnings to December 31, 1918..... 247 30

Loans 22,200 00

22,200 00
\$262,447 30

Examined and Approved { FELIX M. WARBURG
THOMAS DEWITT CUYLER
WILLIAM AVERELL HARRIMAN } *Auditing
Committee*

CITY MAINTENANCE ACCOUNT*

DISBURSEMENTS

1918

Geology and Invertebrate Palæontology	\$1,787 38
Mineralogy	803 37
Mammalogy and Ornithology	3,497 06
Vertebrate Palæontology	1,027 40
Anthropology	1,612 80
Ichthyology	816 59
Herpetology	221 39
Invertebrate Zoölogy	2,977 07
Public Health	708 73
Woods and Forestry	38 50
Library	5,541 55
Public Education	3,950 80
Division of Printing	1,561 39
Heating and Lighting	36,694 75
Repairs and Installation	29,628 34
Special Repairs	8,100 00
General Supplies and Expenses	13,397 94
Administration	112,634 94
	<hr/>
Total net disbursements for the maintenance of all departments	\$225,000 00
Interest on Credit Balances:	
Transferred to Interest on Credit Balances, General Account	247 30
Loans	22,200 00
Capital Fund:	
Cash on hand December 31, 1918	15,000 00
	<hr/>
	\$262,447 30
	<hr/> <hr/>

H. P. DAVISON, *Treasurer*

E. & O. E.
NEW YORK, *December 31, 1918*

* The annual appropriation of the City can be used only for the maintenance of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions. The deficiency in maintenance for 1918, amounting to \$88,348.43, has been met from the Trustees' General Account.

GENERAL ACCOUNT

RECEIPTS

1918

Trustees' Unrestricted Funds:

Cash on hand January 1, 1918		\$13,511 82
Income from General Endowment	\$56,957 64	
Interest on Credit Balances	786 13	
Annual Members	27,030 00	
Sustaining Members	2,050 00	
Associate Members	1,428 00	
Sales and Exchanges	1,087 97	
Sale of Publications	4,337 11	

Contributions of Trustees for General Purposes:

George F. Baker.....	\$2,500 00	Walter B. James.....	\$250 00	
Frederick F. Brewster.	1,100 00	A. D. Juilliard	2,500 00	
R. Fulton Cutting....	500 00	Charles Lanier	500 00	
Thomas DeWitt Cuyler	500 00	Ogden Mills	2,500 00	
H. P. Davison.....	2,500 00	J. P. Morgan	2,500 00	
Cleveland H. Dodge..	2,500 00	Henry Fairfield Osborn	500 00	
James Douglas.....	1,000 00	Percy R. Pyne	1,000 00	
Henry C. Frick.....	2,500 00	John B. Trevor	500 00	
Adrian Iselin	1,000 00	Felix M. Warburg ...	2,500 00	
Arthur Curtiss James .	2,500 00			
				29,350 00
				<u>123,026 85</u>

Total net receipts for the development of all departments..... \$136,538 67

Loans:

City Maintenance Account		\$22,200 00
Morris K. Jesup Fund Account		32,500 00
Bursar's Account		15,000 00
Crocker Land Expedition Fund Account:		
Payment of Loans, 1917	\$18,000 00	
Loans Receivable	15,000 00	
		<u>33,000 00</u>
		102,700 00

Contributions of Trustees for General Purposes for 1919:

Henry C. Frick	\$2,500 00	
W. A. Harriman	1,000 00	
A. D. Juilliard	2,500 00	
		<u>6,000 00</u>

Proceeds of Notes held by United States Trust Company of New York.. 150,000 00

\$395,238 67

Examined and Approved	{	FELIX M. WARBURG	Auditing Committee
		THOMAS DEWITT CUYLER	
		WILLIAM AVERELL HARRIMAN	

GENERAL ACCOUNT *

DISBURSEMENTS

1918

Geology and Invertebrate Palæontology	\$3,122 51
Mineralogy	582 99
Mammalogy and Ornithology	2,729 58
Vertebrate Palæontology	3,922 37
Anthropology	3,842 84
Ichthyology	2,570 78
Herpetology	2,461 46
Invertebrate Zoölogy	3,952 83
Public Health	58 46
Woods and Forestry	16 43
Library	3,081 77
Public Education	6,103 46
Preparation and Exhibition	130 77
Publications	17,042 50
Division of Printing	11,571 99
Heating and Lighting	2,229 15
Repairs and Installation	9,072 73
General Supplies and Expenses	24,773 62
Administration	20,993 72
Pension Fund	10,681 95
Military Service Salaries	12,237 69
Interest on Bank Loans	1,467 78
Pension Fund Account	250 84

Total net disbursements for the development of all departments.... \$142,898 22

Loans:

City Maintenance Account	\$22,200 00	
Morris K. Jesup Fund Account	32,500 00	
Bursar's Account	15,000 00	
Crocker Land Expedition Fund Account	33,000 00	
		102,700 00

Cash on hand December 31, 1918:

Proceeds of Notes held by United States Trust Company of New York to meet overdrafts	†149,640 45
--	-------------

\$395,238 67

E. & O. E.

H. P. DAVISON, Treasurer

NEW YORK, December 31, 1918

* The Trustees' Unrestricted Funds are applied to the general purposes of the Museum, including the deficiency in maintenance.

† The Treasurer's books show a balance on hand December 31, 1918, of..... \$149,640 45

The liabilities against this balance are as follows:

Reserve to meet five notes held by the United States Trust Company of New York.....	\$150,000 00	
Orders and contracts outstanding	1,307 00	
Subscriptions of Trustees for 1919, received in 1918.....	6,000 00	
		157,307 00

Gross deficit	\$7,666 55
Sum to be reimbursed from the 1919 account for equipment of printing plant	5,000 00
	2,666 55

Net deficit, December 31, 1918

 MORRIS K. JESUP FUND ACCOUNT

RECEIPTS

1918

Trustees' Restricted Funds:

Cash on hand January 1, 1918		\$17,594 07
Income from Morris K. Jesup Fund	\$278,036 09	
Sale of Publications	851 06	
Sales and Exchanges	70 75	
Interest on Credit Balances	789 34	
	<hr/>	<hr/>
		279,747 34

Total net receipts for the development of all
 departments \$297,341 31

Loans:

General Account	32,500 00
	<hr/>
	\$329,841 31

Examined and Approved { FELIX M. WARBURG
 THOMAS DEWITT CUYLER
 WILLIAM AVERELL HARRIMAN } Auditing
 Committee

MORRIS K. JESUP FUND ACCOUNT*

DISBURSEMENTS

1918

Geology and Invertebrate Palæontology ...	\$12,809 51
Mineralogy	2,212 60
Mammalogy	16,669 32
Vertebrate Palæontology	39,190 87
Vertebrate Palæontology Research and Pub- lication Fund	4,913 30
President Osborn's Science Fund	5,000 00
Anthropology	35,847 03
Ichthyology	4,683 83
Dr. Dean's Research and Publication Fund .	1,200 00
Herpetology	1,909 32
Invertebrate Zoölogy	13,650 98
Anatomy and Physiology	3,346 78
Public Health	5,065 96
Woods and Forestry	4,448 86
Library	14,325 38
Public Education	6,789 23
Preparation and Exhibition	35,325 74
Publications	32,642 78
Division of Printing	1,085 56
General Supplies and Expenses	714 56
Interest on Bank Loans	2,533 98
Total net disbursements for the development of all departments	\$244,365 59
Crocker Land Expedition Fund Account:	
Unexpended Income of 1918	16,784 03
Loans:	
General Account	32,500 00
Cash on hand December 31, 1918	†36,191 69
	<u>\$329,841 31</u>

E. & O. E.

H. P. DAVISON, Treasurer

NEW YORK, December 31, 1918

* Disbursements of this account are made as the Board of Trustees may direct, for the purchase of specimens, for the expenses of field parties, and for the support of scientific work.

† The Treasurer's books show a balance on hand December 31, 1918, of \$36,191.69, of which \$24,811.56 has been carried forward to 1919 to meet pledges and obligations contracted in 1918. Therefore, the net cash balance as of December 31, 1918, is \$11,380.13.

SPECIAL FUNDS ACCOUNT

RECEIPTS

1918

GEOLOGY AND INVERTEBRATE PALÆONTOLOGY:

Angelo Heilprin Exploring Fund:		
Mr. and Mrs. Paul J. Sachs	\$500	00
Geological Fund:		
Balance	1,000	00
	<u> </u>	\$1,500 00

MINERALOGY:

Matilda W. Bruce Fund:		
Balance	\$2	06
Interest	660	00
	<u> </u>	662 06

MAMMALOGY AND ORNITHOLOGY:

Crandall Oölogical Fund:		
Balance	\$1,160	00
Whale Model Fund:		
Balance	1,000	00
South American Exploration Fund:		
Balance	1,033	30
Peru Bird Fund:		
Balance	310	72
Asiatic Zoölogical Expedition Fund:		
Sidney W. Colgate	125	00
Margaret Olivia Sage Fund:		
Balance	\$659	36
Interest	427	88
	<u> </u>	1,087 24
		4,716 26

VERTEBRATE PALÆONTOLOGY:

Pleistocene Faunal Life Scenes Fund:		
J. P. Morgan		8,000 00

ANTHROPOLOGY:

East Asiatic Fund:		
Balance	\$2,335	49
Anthropology of the Southwest Fund:		
Balance	\$542	51
Archer M. Huntington	10,000	00
	<u> </u>	10,542 51
New Zealand Group Fund:		
Balance	43	71
San Salvador Archæological Fund:		
George B. Hopkins	500	00
	<u> </u>	13,421 71

Carried forward \$28,300 03

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1918

MINERALOGY:

Matilda W. Bruce Fund:		
Purchase of Minerals		\$509 45

MAMMALOGY AND ORNITHOLOGY:

South American Exploration Fund:			
Expenses of Field Work	\$750	25	
Peru Bird Fund:			
Special Services on South American Birds	265	38	
Asiatic Zoölogical Expedition Fund:			
Transferred to Mammalogy and Ornithology, Morris K. Jesup Fund Account, for expenses of field assistant in China		125	00
			<u>1,140 63</u>

VERTEBRATE PALÆONTOLOGY:

Pleistocene Faunal Life Scenes Fund:			
For Murals in the Hall of the Age of Man	\$4,000	00	
Transferred to Vertebrate Palæontology, Morris K. Jesup Fund Account, for advances made for Murals in the Hall of the Age of Man		3,000	00
			<u>7,000 00</u>

ANTHROPOLOGY:

Anthropology of the Southwest Fund:			
Expenses of Field Work	\$5,542	51	
East Asiatic Fund:			
Purchase of Specimens	547	00	
San Salvador Archæological Collection Fund:			
Purchase	500	00	
			<u>6,589 51</u>
Carried forward	\$15,239	59	

SPECIAL FUNDS ACCOUNT

RECEIPTS

1918

Brought forward \$28,300 03

ICHTHYOLOGY:

Dodge Ichthyology Fund:

Balance \$714 17

Fish Bibliography Fund:

Balance \$739 27

Bashford Dean 1,200 00

1,939 27

2,653 44

PUBLIC HEALTH:

Public Health Fund:

Balance 146 57

PUBLIC EDUCATION:

Jonathan Thorne Memorial Fund:

Balance \$525 93

Interest 1,084 20

\$1,610 13

Public Education Fund:

Balance \$120 00

Mrs. James McLean 25 00

145 00

Children's Room Fund:

Balance 115 69

School Fund:

Department of Education of the City of
New York 2,078 72

Docent Service Fund:

Balance 100 00

4,049 54

PREPARATION AND EXHIBITION:

Sea Elephant Preparation Fund:

Balance 1,000 00

PUBLICATIONS:

Jesup North Pacific Expedition Publication Fund:

Balance 1,121 65

Total net receipts for the development of specific departments**\$37,271 23**

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1918 391 22

\$37,662 45

Examined

and Approved

{	FELIX M. WARBURG
	THOMAS DEWITT CUYLER
	WILLIAM AVERELL HARRIMAN

}	Auditing
	Committee

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1918

Brought forward \$15,239 59

ICHTHYOLOGY:

Fish Bibliography Fund:
 Special Services 600 00

PUBLIC HEALTH:

Public Health Fund:
 Transferred to Public Health, General Account, for
 Special Exhibit 146 57

PUBLIC EDUCATION:

Jonathan Thorne Memorial Fund:
 Services of instructors, transportation of
 the blind and expenses of special lectures \$1,271 54
 School Fund:
 Loaning Slides to Public Schools 2,044 23
3,315 77

Total net disbursements for development of specific
 departments \$19,301 93

INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances, General
 Account 391 22

CASH ON HAND December 31, 1918 17,969 30

\$37,662 45

H. P. DAVISON, Treasurer

E. & O. E.

NEW YORK, December 31, 1918

CROCKER LAND EXPEDITION FUND ACCOUNT

RECEIPTS

1918

CASH ON HAND January 1, 1918.....		\$986 78
MORRIS K. JESUP FUND ACCOUNT:		
Contribution from the unexpended in- come of 1918	\$16,784 03	
SALE OF MATERIALS, SUPPLIES AND EQUIPMENT.....	2,543 75	
SALE OF SPECIMENS	76 65	
INCIDENTAL EXPENSES:		
Refund of Amount previously advanced	196 66	
	<hr/>	19,601 09
LOANS:		
General Account		33,000 00
INTEREST ON CREDIT BALANCES:		
Earnings to December 31, 1918		34 15
		<hr/>
		<u>\$53,622 02</u>

Examined	{ FELIX M. WARBURG THOMAS DEWITT CUYLER WILLIAM AVERELL HARRIMAN }	Auditing Committee
and Approved		

CORPORATE STOCK ACCOUNT

RECEIPTS

1918

DEPARTMENT OF PARKS	\$14,757 90	
INTEREST ON CREDIT BALANCES:		
Earnings to December 31, 1918	3 31	
	<hr/>	<u>\$14,761 21</u>

Examined	FELIX M. WARBURG THOMAS DEWITT CUYLER WILLIAM AVERELL HARRIMAN	} Auditing Committee
and Approved		

CROCKER LAND EXPEDITION FUND ACCOUNT

DISBURSEMENTS

1918

Deficit of 1917 Account		\$33,000 00
Materials, Supplies and Equipment	\$430 00	
Incidental Expenses	37 52	
Salaries	154 50	
Transportation	2,000 00	
	<u> </u>	2,622 02

LOANS:

General Account		<u>18,000 00</u>
-----------------------	--	------------------

\$53,622 02

E. & O. E.

NEW YORK, *December 31, 1918*

H. P. DAVISON, *Treasurer*

CORPORATE STOCK ACCOUNT

DISBURSEMENTS

1918

PAYROLLS OF MECHANICS, ETC.....	\$14,757 90	
INTEREST ON CREDIT BALANCES:		
Transferred to Interest on Credit Bal-		
ances, General Account	<u>3 31</u>	\$14,761 21

E. & O. E.

NEW YORK, *December 31, 1918*

H. P. DAVISON, *Treasurer*

INCIDENTAL ACCOUNT

RECEIPTS

1918

CASH ON HAND January 1, 1918.....		\$396 99
RECEIPTS FROM INDIVIDUALS AND SOCIETIES	\$7,349 18	
INTEREST ON CREDIT BALANCES:		
Earnings to December 31, 1918	24 09	
		<u>7,373 27</u>
		<u>\$7,770 26</u>

Examined and Approved { FELIX M. WARBURG
THOMAS DEWITT CUYLER
WILLIAM AVERELL HARRIMAN } Auditing Committee

MUSEUM BUILDING FUND ACCOUNT

RECEIPTS

1918

CASH ON HAND January 1, 1918.....		\$106,050 83
INTEREST ON CREDIT BALANCES.....		2,123 63
		<u>\$108,174 46</u>

Examined and Approved { FELIX M. WARBURG
THOMAS DEWITT CUYLER
WILLIAM AVERELL HARRIMAN } Auditing Committee

INCIDENTAL ACCOUNT

DISBURSEMENTS

1918

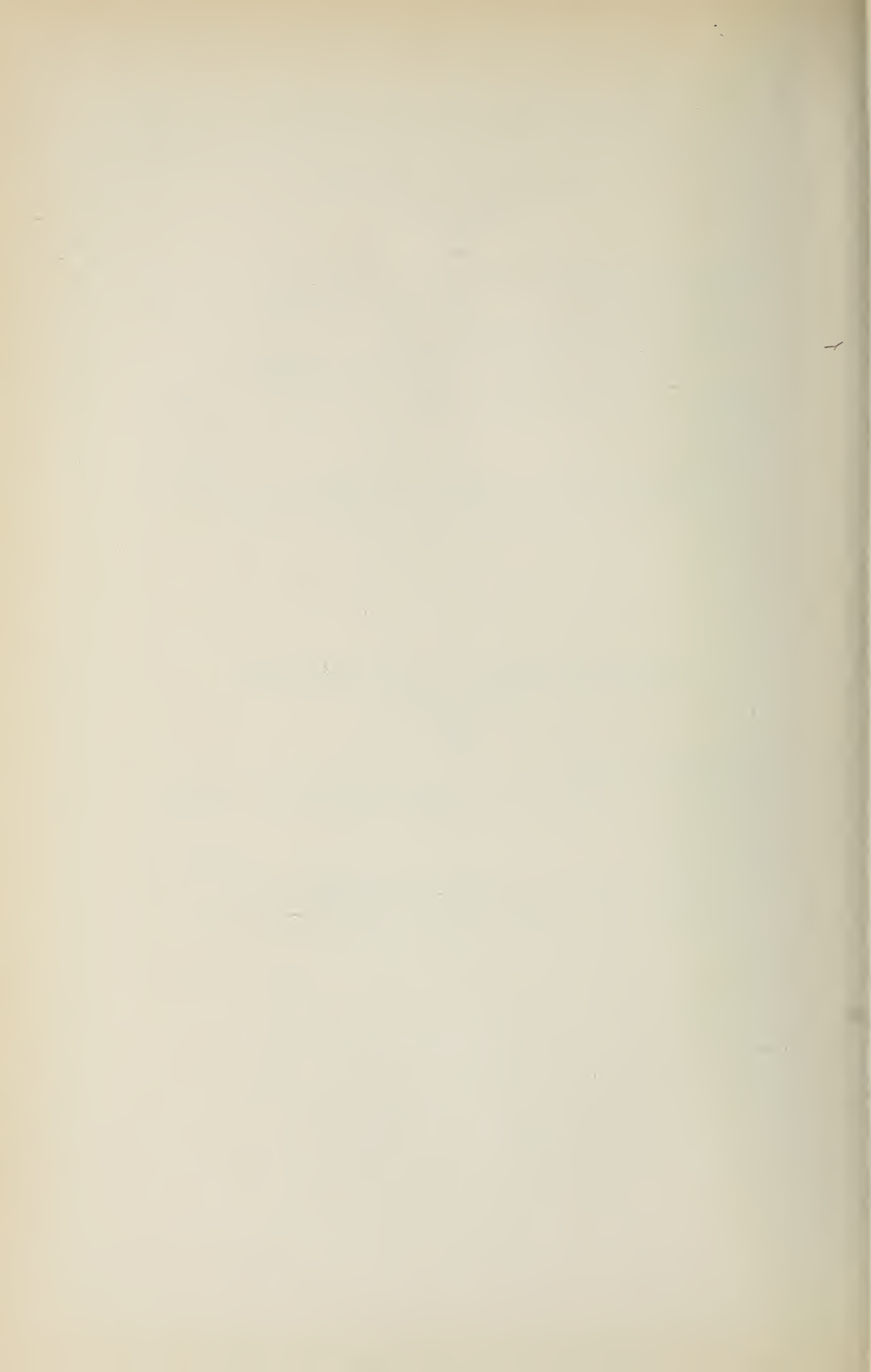
DISBURSEMENTS FOR INDIVIDUALS			
AND SOCIETIES.....		\$7,172 78	
INTEREST ON CREDIT BALANCES:			
Transferred to Interest on Credit Bal-			
ances, General Account		24 09	
			\$7,196 87
CASH ON HAND December 31, 1918			573 39
			<u>\$7,770 26</u>
E. & O. E.			
NEW YORK, December 31, 1918		H. P. DAVISON, Treasurer	

MUSEUM BUILDING FUND ACCOUNT

DISBURSEMENTS

1918

INVESTMENT FUND:			
Purchase of Bonds		\$107,350 00	
CASH ON HAND December 31, 1918		824 46	
			<u>\$108,174 46</u>
E. & O. E.			
NEW YORK, December 31, 1918		H. P. DAVISON, Treasurer	



MEMBERSHIP

Our report of last year stated that, in spite of the demands upon every citizen, our membership was greater than ever before; and, although the same conditions have continued, our membership list is larger this year than last. This we think is an indication that the American Museum of Natural History is recognized as an institution rendering acceptable public service. We feel also that every member receives a good return for the membership fee. Each member receives *The American Museum Journal*, a magazine which each year contains articles of more varied interest written by leaders in science and exploration. This magazine also keeps Members informed of Museum activities and presents the results of the latest explorations and researches dealing with natural science.

In addition to the subscription to *The American Museum Journal*, special courses of lectures are arranged for members and their friends, also courses for the children of members. In 1918 eighty special lectures were given to which members were welcome, in addition to which were those arranged for the children of the public schools, to which membership tickets would give admission.

In the spring course of lectures to members the following lectures were given: "Rocky Mountain and Mesa Verde National Parks," by F. P. Clatworthy; "Our Newest Possessions in the West Indies," by Roy W. Miner; "The Grand Canyon of Arizona," by C. D. Williamson; and "Early Spring Wild Flowers," by G. Clyde Fisher.

The autumn course included the following: "Through Colorado, the Yellowstone and Glacier National Parks," by Branson M. DeCou; "The United States Bird Reservations, Their Extent and Usefulness," by T. Gilbert Pearson; "Bird Music," by Charles Crawford Gorst; and "The Food Supply of Our Allies," by Graham Lusk.

The spring course of lectures to the Children of Members, the eleventh series, included the following: "Bruno"—A True Bear Story of the North Woods," by W. Lyman Underwood; "Eskimo 'Kiddies,'" by Donald B. MacMillan; "Our Dog Friends," by Ernest Harold Baynes; and "Strange Creatures of the Sea," by Raymond L. Ditmars.

The autumn course, the twelfth series, included the following: "Keen Joy of Days in the Open," by Chauncey J. Hawkins; "Big Wild Game Animals at Home in Winter," by Norman McClintock; "Birds in Their Relation to Field, Forest and Garden," by G. Clyde Fisher; and "Eskimo Family Life, Hunting and Travel," by Edmund Otis Hovey.

In addition to the regular courses of lectures for Members, several special lectures have been given during the year which Members were invited to attend.

Special Lectures In January a series of four lectures by Dr. A. L. Kroeber, on "Four Types of Aboriginal Culture," were given under the auspices of the Department of Anthropology.

On January 17, three lectures, under the general subject, "Foreign Monuments, Their Erection, Protection, Destruction and Restoration," were given at the Museum in coöperation with The American Scenic and Historic Preservation Society, as follows: "Care of Allied Soldiers' Graves," by Colonel Henry W. Sackett; "Protection and Destruction of Historic Monuments," by Edward Hagaman Hall, and "Ancient Monuments of China and Tibet," by Roy Chapman Andrews.

On February 21, a special lecture for Members and a special exhibition of lantern slides taken in natural colors by the Paget Process by Yvette Borup Andrews on the Museum's Asiatic Zoölogical Expedition in Japan, Burma and China, were given by Roy Chapman Andrews, leader of the expedition.

On December 16, under the auspices of The American Museum of Natural History, the New York Academy of Sciences, the American Scenic and Historic Preservation Society and the Institute of Arts and Sciences, a lecture was given by

Professor S. A. Mitchell on "The Result of the Eclipse of 1918."

The number of new Members enrolled during 1918 was 589, of which 87 were Life Members. The loss through death and resignation was 292. There was a net gain of 297, and on December 31, 1918, the total membership was 4,568, divided into classes as follows:

Founder	1	Fellows	48
Benefactors	5	Honorary Fellows	10
Associate Founders	10	Life Members	793
Associate Benefactors	21	Sustaining Members	89
Patrons	113	Annual Members	2,966
Associate Members (non-Resident)			512

NEW MEMBERS

The following was elected a Benefactor:

J. P. MORGAN

The following was elected an Associate Benefactor:

†Mrs. FRANK W. KITCHING

The following were elected Patrons:

MRS. CHARLES B. ALEXANDER DR. WALTER L. HILDBURGH
 JOHN E. THAYER

The following were elected Fellows:

E. L. DOHENY STANLEY G. MIDDLETON
 GEORGE BARTON FRENCH LEWIS A. PLATT
 MRS. GEORGE BARTON FRENCH MORTIMER L. SCHIFF
 JAMES SHEWAN

The following were elected Life Members through contribution of One Hundred Dollars:

EDWARD G. ACHESON H. BENIS
 C. F. AHLSTROM ROBERT WORTH BINGHAM
 D. NEWTON BARNEY CHARLES WATSON BOISE

† Succeeded to Associate Benefactorship of Frank W. Kitching.

REGINALD BROOKS	EFFINGHAM B. MORRIS
ALBERT C. BURRAGE	HENRY A. MURRAY, JR.
M. L. BYERS	FRANK J. MYERS
FULLER E. CALLAWAY	HERMAN ARMOUR NICHOLS
HAMILTON CARHARTT	MISS JOSEPHINE ADAMS
ROBERT A. CHAMBERS	OSBORN
MRS. GEORGE E. CHISHOLM	MARIE LOUISE PECKHAM
CAPTAIN EDWARD B. CLOSE	THEODORE PETERS
R. T. CRANE, JR.	MRS. MORTON F. PLANT
JOHN T. DAVIS	ALEXANDER HAMILTON RICE
JOHN B. DENNIS	HORATIO S. RUBENS
C. M. GARRISON	JACOB RUPPERT
MURRY GUGGENHEIM	C. H. SANFORD
ANSON W. HARD, JR.	MRS. RALPH SANGER
H. B. HARRIS	HENRY D. SHARPE
GENERAL WARREN M. HEALEY	ALTHEA R. SHERMAN
PHOEBE A. HEARST	E. A. CAPPELEN SMITH
A. BARTON HEPBURN	WILLIAM C. SQUIER, 3D
N. B. HERSLOFF	MRS. BENJAMIN STRONG, JR.
GEO. W. HOADLEY	FREDERICK STURGES, JR.
MRS. HENRY R. HOYT	A. F. TROESCHER
R. L. IRELAND	W. K. VANDERBILT, JR.
EDWARD K. LINCOLN	C. W. WATSON
LINDA V. MALLINSON	MISS ALICE LEE WELCHER
W. A. MARSHALL	MISS AMY OGDEN WELCHER
EVERETT MASTEN	MISS EMMA PARKE AVERY
MRS. AUGUST R. MEYER	WELCHER
CHARLES V. MILLER	

The following were made Life Members through Honorary Election:

W. W. ATTERBURY	HENRY DODGE COOPER
HENRY BALFE	GRENVILLE T. EMMET
BRIGADIER GENERAL DAVID L.	C. W. GORDON
BRAINARD	GEORGE M. GRAY
HENRY G. BRYANT	LEVI H. GREENWOOD
MICHAEL J. CLANCY	LIEUT. HARRY F. GUGGEN-
E. W. CLARK	HEIM, U. S. N.

HENRY HORNBLOWER	M. F. SAVAGE
ROBERT HENDRE KELBY	LOUIS A. SHAW
M. J. LOOK	CHARLES A. STONE
PAUL B. MORGAN	W. B. THOMAS
JAMES C. PARRISH	PAUL TUCKERMAN
SAMUEL T. PETERS	EDWIN S. WEBSTER
ALBERT HOUGHTON PRATT	FRANK G. WEBSTER
DR. T. MITCHELL PRUDDEN	R. H. WILLIAMS

The following have become Sustaining Members :

WM. R. BEGG	JESSE H. JONES
R. D. BENSON	HARRY L. MARSH
PAUL J. BONWIT	E. L. MAYER
WALTER B. CONGDON	GEO. A. MCKINLOCK
MRS. WM. FOX	MARY E. MERRILL
LE ROY FROST	GARDINER H. MILLER
CHAS. J. GRAHAM	SAMUEL SACHS
W. A. GRAMER	MRS. G. H. THOMAS
	C. J. ULMANN

DECEASED TRUSTEE AND MEMBERS

Trustee

DR. JAMES DOUGLAS

Benefactor

DR. JAMES DOUGLAS

Associate Benefactor

MRS. RUSSELL SAGE

Patrons

JAMES GORDON BENNETT	DR. JAMES DOUGLAS
MRS. RUSSELL SAGE	

Fellows

F. R. HALSEY	RICHARD MORTIMER
--------------	------------------

Life Members

CARROLL BALDWIN	CORTLANDT DE PEYSTER FIELD
TREADWELL CLEVELAND	MRS. C. H. ISHAM
MRS. WILLIAM COMBE	MRS. CONSTANCE S. MEAD
DR. JAMES DOUGLAS	FRANK E. PEABODY

A complete list of Members is appended.

Respectfully submitted,

ADRIAN ISELIN,

Secretary.

LIST OF TRUSTEES AND TERMS OF SERVICE

1869-1918

The Mayor of the City of New York	1908-
The President of the Department of Parks	1908-
The Comptroller of the City of New York	1908-
Auchincloss, Hugh	1876-1890
Baker, George F.	1914-
Bickmore, Albert S.	1885-1914
Bishop, H. R.	1882-1891
Blatchford, Richard M.	1869-1872
Blodgett, William T.	1869-1875
Bowdoin, George S.	1903-1913
Brewster, Frederick F.	1913-
Choate, Joseph H.	1869-1917
Colgate, Robert	1869-1885
Constable, James M.	1872-1900
Cutting, R. Fulton	1914-
Cuyler, Cornelius C.	1904-1909
Cuyler, Thomas DeWitt	1910-
Dana, Chas. A.	1869-1872
Davison, Henry P.	1916-
Dodge, A. G. Phelps	1869-1872
Dodge, Cleveland H.	1904-
Dodge, W. E., Jr.	1872-1903
Douglas, James	1909-1918
Drexel, Joseph W.	1872-1888
Elliot, Daniel Giraud	1915-1915
Field, Benjamin H.	1869-1893
Frick, Henry C.	1914-
Gerry, Elbridge T.	1894-1902
Grant, Madison	1911-
Green, Andrew H.	1869-1903
Grinnell, Moses H.	1869-1872
Haines, William A.	1869-1880
Hard, Anson W.	1894-1917
Harriman, Oliver	1878-1895
Harriman, William Averell	1918-
Havemeyer, H. O.	1898-1907
Havemeyer, Theodore A.	1891-1897

Haven, George G.....	1892-1895
Hewitt, Abram S.	1874-1903
Huntington, Archer M.	1909-1912, 1914-
Hyde, Frederick E.	1899-1909
Hyde, James H.	1903-1907
Iselin, Adrian	1869-1905
Iselin, Adrian	1905-
James, Arthur Curtiss	1903-
James, D. Willis	1889-1903
James, Walter B.	1911-
Jesup, Morris K.	1869-1908
Juilliard, A. D.	1898-
Kissel, Gustav E.	1894-1911
Landon, Charles G.	1882-1893
Lanier, Charles	1874-
Low, Seth	1905-1916
Mills, D. O.	1882-1910
Mills, Ogden	1910-
Morgan, J. Pierpont	1869-1913
Morgan, J. P.	1908-
Morton, Levi P.	1889-1890
Osborn, Henry Fairfield	1901-
Ottendorfer, Oswald	1886-1900
Parish, Henry	1869-1872
Potter, Howard	1869-1880
Pyne, Percy R.	1872-1895
Pyne, Percy R.	1900-
Robb, J. Hampden	1886-1911
Rockefeller, William	1895-1913
Rogers, Archibald	1891-1910
Roosevelt, Theodore	1869-1878
Roosevelt, Theodore	1886-1891
Sherman, Benjamin B.	1869-1874
Stebbins, Henry G.	1869-1874
Stevens, Frederic W.	1873-1882
Steward, D. Jackson	1869-1898
Stuart, Robert L.	1869-1882
Trevor, John B.	1872-1888
Trevor, John B.	1908-
Vanderbilt, Cornelius	1878-1899
Warburg, Felix M.	1910-
Wickersham, George W.	1910-1917
Whitney, William C.	1891-1904
Wolfe, John David	1869-1872

LIST OF MEMBERS

December 31, 1918

FOUNDERS

*This class of members is composed of the incorporators of the
Museum*

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Fay, Charles J.	Follett, Richard E.	Frazier, W. W.
Fay, Dudley B.	Folsom, H. Lloyd	Fredrick, Mrs. Leopold
Fearing, George R.	Foot, Miss Katharine	Freeland, Arthur G.
Feder, Mrs. Joel	Foot, Sandford D.	Frelinghuysen, Frederick
Ferguson, Alfred L.	Foran, George J.	French, Daniel C.
Ferguson, Miss Eleanor	Ford, Franklin	French, Mrs. Daniel C.
Ferguson, Mrs. Farquhar	Fordeyce, Dr. John A.	Frenkel, Emil
Ferguson, Walton	Forni, Madame F. G. Fara	Frese, Fred
Ferguson, William C.	Forsch, Mrs. F.	Frew, Walter E.
Festetics, Countess E.	Forsyth, Robert	Friedlander, Louis
Feustman, L. P.	Foshay, P. Maxwell	Friedlander, Victor
Field, Wm. B. Osgood	Foster, Edward W.	Friedlander, Wm. S.
Field, Mrs. Wm. B. Osgood	Foster, Harold A., M.D.	Fries, Miss Emilie
Finch, Edward B., M.D.	Foster, Macomb G.	Fries, Harold H.
Firuski, Louis L.	Foster, Mortimer B.	Frissell, A. S.
Fischer, Hermann, M.D.	Foster, Scott	Frissell, Miss Leila S.
Fischer, T. Tasso	Fowler, A. A.	Frothingham, Major John W.
		Frothingham, Mrs. Randolph

Frye, Jed	Gillet, Lorenzo M.	Greeff, Ernest F.
Fuld, Felix	Gillies, Edwin J.	Green, Fred W.
Fuld, Sol.	Gilroy, Thomas F., Jr.	Greenberger, Albert
Fulle, John H.	Gips, Walter Fuld	Greene, Miss
Fuller, Mrs. Eugene	Gladding, J. R.	Augusta Borland
Fulton, Robert Edison	Glazier, Henry S.	Greene, G. S., Jr.
	Gleason, Henry	Greenebaum, Fred H.
Gade, Wm. H. F.	Glenn, John M.	Greenhut, Benedict J.
Gaillard, Mrs. Wm. D.	Goadby, W. H.	Greening, Alfred C.
Gaines, Mrs.	Goddard,	Greenwood,
	Mrs. Frederic N.	Miss Eliza R.
Furman V.	Goddard, Mrs. Morrill	Greer, Charles
Galban, Eugenio	Godfrey, Mrs. E. D.	Greer, Rt. Rev.
Gallatin, Albert	Goffe, Dr. J. Riddle	David H.
Gallatin, Mrs. Albert	Goldman, Albert	Greer, Mrs. David H.
Gallatin, Goelet	Goldman, Julius	Greer, Louis M.
Galloway, Mrs. R. M.	Goldman, Samuel P.	Griffin, W. V.
Gambier, E. V.	Goldsmith, Frederick	Grinnell, E. Morgan
Gardin, John E.	Goldsmith, Mrs. H. B.	Griswold, Mrs. Chester
Gardiner, Robert A.	Goldsmith, James A.	Gross, Moritz
Garrard,	Goldsmith,	Grossmann,
Miss Margaret H.	Mrs. Maurice	Mrs. Edward A.
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Garrett, Laura B.	Goldwasser, I. Edwin	Guernsey,
Garrett, Robert	Goldzier, Morris	Henry William
Gartland, George E.	Goodfriend, Jacob	Guggenheim, Simon
Garver, John A.	Goodfriend, Meyer	Guggenheim,
Gaston, Wm. G.	Goodhue, Chas. E.	Mrs. Simon
Gates, Mrs. J. W.	Goodwin, Walter L.	Guggenheim, William
Gautier, Dudley G.	Gottgetreu, Wm.	Guinness,
Gawtry, H. E.	Gottheil, Leon	Mrs. Benjamin
Gayley, Florence	Gottheil, Mrs. Paul	Guinzburg, A. M.
Gayley, Mrs. Gardiner	Gotthold, Arthur F.	Guinzburg, Mrs. Victor
Gaylord, Irving C.	Gould, Charles A.	Guiteras, Ramon
Geer, Robert C.	Gould, Edwin	Guiterman, Percy L.
Geer, Walter	Gould, Horace S.	Guiterman, Rudolph
Gelshenen, William H.	Grace, Mrs. L. A.	Gurnee, Mrs. Walter S.
Gerrish, Frank Scott	Graham, Miss M. D.	Gushee, R. A.
Gerry, Robert L.	Grasselli, C. A.	Guye, C. H.
Gertzson, Sven, D.D.S.	Gratz, Anderson	
Gibb, Dr. W. Travis	Graves, Henry, Jr.	Haas, Kalman
Gibson,	Gray, Arthur R.	Hage, Daniel S.
Miss Florence Wier	Gray, Henry G.	Hague, Miss Marian
Gilbert, Mrs. C.	Gray, Mrs. H. Winthrop	Hahlo, Arthur H.
Gilbert, Clinton	Graydon,	Haines, Charles D.
Gilbert, Miss Ellen G.	Mrs. Clendenen	Hale, Thomas
Gilbreth, Frank B.	Greeff, Bernhard, Jr.	Hall, Henry B.
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Mrs. Frederick A.	Harriman, E. Roland	Heide, Henry
Halsey, Robert H.	Harrington, Mary E.	Heide, Henry, Jr.
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Hamburger, L.	Harris, Chas. C.	Heimann, Julius
Hamburger, Samuel B.	Harris, Geo. A.	Heinsheimer, Alfred M.
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Hamersley,	Harris, Mrs. Victor	Heller, Abraham A.
Louis Gordon	Harris, William H.	Heller, Samuel
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Hammerslough, Samuel	Hatch,	Hendricks, Harmon W.
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Mrs. John Hays	Havemeyer, F. C.	Henry, Nelson H.
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Hanauer, Jerome J.	Havemeyer, T. A.	Hernsheim, Joseph
Hance, John A.	Haven, Mrs. G. G.	Hernstadt, William L.
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Hansen, Ferdinand	Hawk,	J. B. Francis
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 Hirschhorn, Fred
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 Hoffman, Harry L.
 Hoffmann, Bernhard
 Hogan, Mrs. Jefferson
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 Horr, L. Wm.
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 Hüpfel, Chris. G.
 Hüpfel, J. Chr. G.
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 Husted, Miss
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 Husted, Seymour L., Jr.
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 Mrs. R. G., Jr.
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 Miller Reese, Ph.D.
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 Huyler, Frank DeK.
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 Hyde, A. Fillmore

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Hyde, Seymour Worrall	Jennings, Mrs.	Kaufmann, Julius
Hyde, W. Truslow	Percy Hall	Kean,
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Ingersoll, Robt. H.	Jennings, Robt. E.	Keech, Mrs. Frank
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Ingraham, Mrs. George	Jephson, George S.	Keeler, Mrs. Charles
Inman, John H.	Jermain, Miss M. C.	Bradley
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Iselin, Mrs. William E.	Johnson, Mrs. Bradish	Kelchner, William W.
Iselin, Wm. E.	Johnson, Guy B.	Keller, S.
Isenstein, Otto	Johnson, Mrs. Owen	Kellers, Fred. T.
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Jackson, Mrs. C. D.	Johnston, Mrs. J. Herbert	Kellogg, Mrs. Morris W.
Jackson, Francis DeMilt	Jones,	Kemmerer, M. S.
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Jackson, Jas. W.	Jones, A. H.	Kemp, Prof. James F.
Jackson, Mrs. Percy	Jones, Mrs. Cadwalader	Kempner, Elias
Jackson, Samuel	Jones, De Witt Clinton	Kennan, George
Jacobus, John S.	Jones, H. Bolton	Kennedy, Dr. Harris
Jaffray, Robert	Jordan, Richard, M.D.	Kennedy, Mrs. John S.
James, Ellerton	Joseph, Eli	Kennerley, Helen M.
James, Henry	Joseph, Mrs. Hugo S.	Kennerly, M. M.
James, Robert C.	Joseph, Mrs. John A., Jr.	Kent, Edwin C.
James, Mrs. Walter B.	Josephthal, Louis M.	Keppel, David
Janeway, Henry H., M.D.	Judson, Mrs. Albert L.	Kern, William M.
Jansen, Ed.	Judson, Henry I.	Kerr, E. Coe
Jaretzki, Mrs. Alfred	Jungbluth, Karl	Kerr, John B.
Jarvie, James N.	Kahle, Mrs. Julie	Kerr, John Clapperton
Jarvis, Mrs. S. M.	Kahn, Arthur J.	Kerr, Walter
Jasper, J. H.	Kahn, Otto H.	Kerrison, Dr. Philip D.
Jay, Mrs. Augustus	Kahn, Dr. Robert Johnstone	Keuffel, W. G.
	Kahrs, J. Henry	Keyes, Dr. E. L.
	Kane, Mrs. De Lancey	Keyser, Mrs. Samuel
	Karsch, Oswald J.	Kidder, Edward H.
	Kassing, Edwin S.	Kilborne, Mrs. R. S.
		Killeen, Edward V.
		Kilner, S. E.
		Kimball, Alfred R.

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| Kimbel, Henry | Kosmak, Geo. W., M.D. | Lapsley, Anna Welsh |
| King, Mrs. Edward | Kovacs, Dr. Richard | Larkin, Mrs. James S. |
| King, Ellen | Kremer, | la Rosa, Carlos, Jr. |
| King, Miss Isabella C. | Mrs. William N. | Lasker, Miss Etta |
| King, James Gore | Kruse, Edward H. | Lathers, Agnes |
| Kingsbury, N. C. | Kudlich, H. C. | Lathrop, Alanson P. |
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| Kingsford, Miss | Kuhn, Arthur K. | Lauer, Edgar J. |
| Margaret S. | Kuhn, August | Laughlin, James, Jr. |
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| Kinney, Morris | Kühne, Mrs. | Lawrence, Emlen N. |
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| Kip, Mrs. Garrett B. | Kursheedt, Roland S. | Miss Margaret |
| Kip, W. Ruloff | Kuser, | Lawrence, Townsend |
| Kirchberger, M. | Mrs. Anthony R. | Lawrence, W. V. |
| Kirkpatrick, | Kuser, John Dryden | Lawton, William W. |
| Mrs. Thomas | Kuttruff, Adolf | Lea, Charles M. |
| Kissam, Mrs. Maude | Kuttruff, Fredk. | Leach, Henry Goddard |
| Kissel, Mrs. G. E. | Lacombe, E. Henry | Leale, Charles A., M.D. |
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| Klee, Sigmund | Lagai, Dr. G. | Leavitt, |
| Klein, Leo M. | Lage, Frederico | Mrs. Charles W. |
| Klenke, William H. | Lagowitz, Miss H. L. | Ledyard, |
| Klipstein, E. C. | Lamarche, | Mrs. Lewis Cass |
| Knapp, Edward J. | Mrs. Henry J. | Lee, Mrs. Arthur |
| Knapp, Mrs. H. K. | Lambden, John F. | Lee, Charles N. |
| Knapp, Joseph P. | Lambelet, Mrs. H. | Lee, Frederic S. |
| Knoedler, Roland F. | Lambert, Adrian V. S. | Lee, Mrs. Frederic S. |
| Knowlton, Eben B. | Lambert, Samuel W. | Lee, Ivy L. |
| Koch, Mrs. R. S. | Lamont, T. W. | Lee, J. W., Jr., |
| Koch, Wilhelm | Landon, Francis G. | Lee, Dr. Marguerite T. |
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| Kohler, Miss M. E. | Lane, James Warren | Lefferts, Marshall C. |
| Kohlman, Chas. | Lane, Wolcott G. | Lefferts, Wm. H. |
| Kohlman, Mrs. M. L. | Lange, Gustav, Jr. | Legg, George |
| Kohn, S. H. | Langeloth, Mrs. Jacob | Lehmaier, James M. |
| Kohn, Mrs. Walter T. | Langenberger-Jones, | Lehmaier, |
| Kohns, Lee | Mabel | Mrs. Louis A. |
| Kohnstamm, Emil V. | Langmann, Mrs. G. | Lehman, Arthur |
| Koles, Henry M., M.D. | Langton, John | Lehman, Irving |
| Konta, Alexander | Lanier, Reginald B. | Lehman, Isidore H. |
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Leonori, Charles L.	Littauer, Lucius N.	Luke, Adam K.
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LeRoy, Dr. Louis C.	Livermore,	Luke, John G.
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Lester, A. Edward	Livingston, Miss A. P.	Benjamin Rush
Lester, Maxwell	Livingston,	Lunger, John B.
Leupp, Wm. H.	Mrs. Charles L.	Luquer, Lea Shippen
Leventritt, David	Lloyd, Francis G.	Lusk, Miss Anna H.
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Levi, Emil S.	Dr. George Roe	Lybrand, William M.
Levi, Louis	Loeb, C. M.	Lyman, Henry D.
Levine, Edmund J.	Loeb, J.	Lyman, Theodore
Levison, Benno	Loeb, Mrs. Morris	Lynch, Mrs. John H.
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Levy, Edgar A.	Miss Virginia S.	Lyons, Howard J.
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Levy, Louis S.	Loewi, Hugo V.	Maas, Gustavus
Lewis, Alphons	Loewy, Benno	Maas, Milton A.
Lewis, Mrs. August	Logan, Frank J.	Mabon, J. B.
Lewis, Mrs. Eugene	Long, Louis	MacDougall, Geo. R.
Lewis, Frederic Elliott	Loring, D. A.	MacFadden, Carl K.
Lewis, Montgomery H.	Loring, Daniel Alden, Jr.	Macfadden, Robyn
Lewis, Richard V.	Lorsch, Henry	MacIver,
Lewis, Robert Parker	Louderback, Arthur E.	David Randall
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Lewisohn, Sam A.	Lovett, R. S.	Mack, M.
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Lichtenstein, Mrs. Paul	Miss Carlotta Russell	Mainzer, Herbert R.
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Limburg, Herbert R.	Ludington, Mary L.	Mann, W. D.
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Markle, Mrs. John	McCarthy, J. M.	Mein, Wm. Wallace
Markoe, Dr. J. W.	McCourt, James	Meinhard, Morton H.
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Marston, Edwin S.	McCurdy, Robert H.	Menken, S. Stanwood
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Langdon Parker	McGinley, J. R.	Hastings
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Matheson, Wm. J.	McLane, Thomas S.	Miller, Simon
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McAleenan, Joseph A.	McNeir, George	Mrs. John Murray

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 Moffatt, Mosle, Max. A. Mrs. James E.
 Mrs. R. Burnham Mosman, Philip A. Newcomb, James G.
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 Morgan, W. Forbes, Jr. Murtha, Thomas F. Obermayer, Charles J.
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Poor, Mrs. Horace F.	Pulitzer, Ralph	Regensburg,
Poor, Roger M.	Pulsifer, N. T.	Mrs. Jerome
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Pratt, John T.	Rawson, Mrs. Annie D.	Ridgway, Mrs. Robert
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Robinson, Charles Edw.	Rosenbaum, Sol. G.	Salant, Aaron B.
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Rogers, Mrs. Francis	Rowland, Thos.	Sayles, Mrs. Robert W.
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Hilborne L.	Sachs, Bernard, M.D.	Schley, Evander B.

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Schmelzel, James H.	Scudder, Willard	Shulof,
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Schniewind,	Seeman, Carl	Siegel, William
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Scholle, A. H.	Seligman, George W.	Simon, Franklin
Schram, Louis B.	Seligman, Jefferson	Simon, Horatio S.
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Schreiter, Henry	Seligman, Albert J.	Simon, R. E.
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Schuster, R.	Dr. George H.	Mrs. Ernest L.
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Schuyler,	Sexton, Lawrence E.	Simpson, John Boulton
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Scott, Francis M.	Sheffield, Mrs. James R.	Sloan, Mrs. Samuel
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Scott, Walter	Shepard,	Sloane, John
Scott, William	Mrs. Finley J.	Sloane, Wm. M.
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Scudder, Edward M.	Shoemaker, Henry W.	Smillie, James C.

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Sondheimer, Julius	Sternfeld, Theodore	Strauss, John Francis
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Ulmann, Ludwig	Vietor, Mrs. Geo. F.	Walter, Edw. J.
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ACCESSIONS, 1918

DEPARTMENT OF PUBLIC EDUCATION

BY GIFT

- CARL E. AKELEY, New York City.
2 Negatives of Virginia Deer, 8×10.
- FREDERICK BLASCHKE, New York City.
1 Screech Owl skin, from Cold Spring, N. Y.
1 Cedar Waxwing in the flesh.
- MISS GLADYS BRIDGES, New Rochelle, N. Y.
1 Robin in the flesh.
- MRS. ELIZABETH G. BRITTON, New York City.
1 Plain lantern slide, 1 Transparency 5×7, and 1 Photograph, 5×7, of Hermit Thrush, from Woodstock, Vt.; 4 Plain lantern slides of anthropological subjects.
- MISS LAURA B. BROOMALL, Far Rockaway, N. Y.
1 Catbird, 1 Olive-backed Thrush, 1 Gray-cheeked Thrush, 2 Hermit Thrushes, 1 House Sparrow, 1 Robin, 2 Juncos, 1 Field Sparrow, 1 Yellow-bellied Sapsucker; in the flesh, from the vicinity of New York.
- ALBERT E. BUTLER, Denver, Colo.
2 Negatives of Western Tumbleweed and 1 of Cat-tails, from vicinity of Denver.
- MRS. H. C. CARTER, New York City.
53 Negatives, 4×5, of Hawaiian subjects.
400 Lantern slides of Hawaiian and other subjects.
- M. D. C. CRAWFORD, New York City.
1 Photograph of Loon's Nest.
- MRS. MARY ALICE DEAN, New York City.
2 Mounted Pheasants.
- S. KEITH EVANS, New York City.
1 Mounted Pileated Woodpecker.
- ARTHUR H. FISHER, Philadelphia, Pa.
35 Negatives, 5×7, and 2 negatives, 4×5, of Wild Animals in captivity.
- CASS GILBERT, New York City.
Set of official photographs taken in connection with the British, French, Italian, Russian, and Japanese War Commissions.
- ERNEST INGERSOLL, New York City.
1 Saw-whet Owl in the flesh, from New Brunswick, Canada.
- DR. J. D. JOHNSON, New York City.
5 Negatives of John Burroughs, 5×7, from Roxbury, N. Y.
- JULIUS KIRSCHNER, New York City.
White-throated Sparrow in the flesh.
- CHARLES KOHLMAN, New York City.
33 Specimens of Minerals and Rocks, from Grand Canyon of Arizona.
- MISS PAULA C. LAMBERT, New York City.
7 Photographs of Chilean subjects.
- LIEUT. AND MRS. LEO E. MILLER, DALLAS, TEXAS.
7 Negatives of Wild Flowers, from Texas.
- MRS. EDWIN McCLURE PETERS, Brooklyn, N. Y.
Various samples of Lava, Pumicestone, Beach Sand, Cork and Paper Tree, from the Azores.
- ALBERT H. PRATT, New York City.
388 Negatives of John Burroughs and of Conservation of Wild Life.
254 Lantern slides of John Burroughs and of Conservation of Wild Life.
1830 Feet of motion picture film of John Burroughs.
- MORRIS M. RATHBUN, Los Angeles, Cal.
Photograph of Swordfish, weighing 314 pounds, caught at Santa Catalina Island.

- WILLIAM SMITH, New York City.
2 Birds' Nests from Tenafly, N. J.
- D. C. STULL, Provincetown, Mass.
5 Photo postal cards of Blackfish.
- MRS. JOSEPH TODHUNTER THOMPSON,
New York City.
1 Pekinese Dog.
- MRS. WILLIAM UHLMANN, New York
City.
1 Mounted Peacock.
- UNIVERSITY SOCIETY, New York City.
8 Enlargements of Habitat Bird
Groups.
- MISS ADELE VIOL, New York City.
1 Freak Chick.
- T. C. WARREN, Arverne, L. I.
4 Small Birds.
- IRVING VAN ZANDT, JR., New Rochelle,
N. Y.
Yellow-billed Cuckoo in the flesh,
from New Rochelle, N. Y.
- BY PURCHASE
- 1500 Feet negative motion picture film
and 5000 feet positive motion pic-
ture film of Natural History sub-
jects.
- Electrotypes and color plates used in
California magazine published in
San Francisco in 1915.
- 450 Feet motion picture film, "Building
the Liberty Hospital."
- 245 Negatives taken on Nicaraguan
Herpetology Expedition.
- About 1000 feet motion picture film,
"Whaling in Japan."
- 3 Reels motion pictures of Australian
Natives.
- DEPARTMENT OF GEOLOGY
AND INVERTEBRATE
PALÆONTOLOGY
- BY GIFT
- ADMIRALTY ZINC Co., Quapaw, Okla.
12 Specimens of lead and zinc ores,
collected by E. O. Hovey at the
company's mines at Touthat, Okla.
- ARMANDO L. ANGELO, Yonkers, N. Y.
(Through Department of Anthro-
pology.)
Fossil echinoderm and pelecypods
from Porto Rico.
- BARNUM BROWN, New York City.
31 Specimens of fossils from Cuba.
Specimen of coral with *Pareia-
saurus* skeleton, from Cape Colony,
South Africa.
- COPPER QUEEN CONSOLIDATED MINING
Co., Bisbee, Ariz.
175 Specimens illustrating metallurgi-
cal treatment of ores. (November,
1914.)
- MRS. ROBERT DEXTER, Dayton, Ohio.
Siphonia koenigi Mantell, from Res-
tonvale, Kent, England.
- JAMES W. EARDELEY, Fort Huachuca,
Ariz.
7 Specimens of Scheelite, 5 other ore
specimens, from Fort Huachuca,
Ariz.
- A. P. GUSSMAN, New York City.
7 Specimens of volcanic scoriæ, from
the beach, Deception Island, South
Shetlands.
- DR. ROLAND M. HARPER, College Point,
N. Y.
Fossil Beetle imbedded in peat, near
Maspeth, Queens Co., N. Y.
- E. O. HOVEY, New York City.
2 Specimens granite from East Barre,
Vt.
- ISAAC E. JAMES, Pittston, Pa.
1 Specimen anthracite coal showing
"blistered" surface.
- JAMES F. KEMP, New York City.
23 grams "Gladstone," Australia, iron
meteorite.
- CHARLES KOHLMAN, New York City.
Stalactite and siliceous concretion,
from Grand Canyon, Ariz.
- DEPARTMENT OF MINERALOGY (Trans-
fer).
46 Stalactites, from Bermuda, Vir-
ginia, Arkansas, Iowa and Pennsyl-
vania.

- L. D. RICKETTS, New York City.
Specimen of Azurite from Bisbee, Ariz.
- MISS H. ERNESTINE RIPLEY, New York City.
2 Specimens of variegated clay, from Gay Head, Martha's Vineyard.
- ROBERT F. TOMPKINS, New York City.
3 Specimens of copper ore from Caribou River, Pictou Co., Nova Scotia.
- DR. P. DE VECCHI, New York City.
Obsidian from Shasta Co., Cal.

BY EXCHANGE

- DARLING K. GREGER, Columbia, Mo.
200+ Chouteau limestone fossils.
- U. S. NATIONAL MUSEUM, Washington, D. C.
Specimen amygdaloid copper, specimen copper conglomerate.
- UNIVERSITY OF NEW MEXICO, Albuquerque, New Mexico.
107 Specimens of rocks, minerals and fossils, collected and assembled by Professor C. T. Kirk.

BY PURCHASE

- 55 Crinoids and 270 blastoids from Indiana.
- 23 Specimens of fossil goniatites and orthoceratites, from western New York.
- Medford, Oreg., iron meteorite, entire mass, 1247 gm.
- Relief map, Catskill Aqueduct Region, unpainted.
- 1 Specimen of *Platyceras?*
- 1665 Specimens of Silurian-Devonian invertebrates from the Hunton formation, Arbuckle Mts., Okla.
- 8 Fossil insects from Florissant, Colo.
- 26 Models of pelecypods.
- Model of *Ceraurus*.

PART EXCHANGE, PART PURCHASE

- CARROLL LANE FENTON, Charles City, Iowa.
200 Specimens of fossils, from Hackberry, Iowa.

THROUGH MUSEUM EXPEDITIONS

- 277 Specimens of Coal Measure plants from Mazon Creek, Ill. Collected by W. Elmer Ekblaw.
- Small series of fulgurites from sand beds in Whiteside Co., Ill. Collected by W. Elmer Ekblaw.
- Three blocks peat, Juniper Swamp, near Maspeth, N. Y. Collected by E. O. Hovey and P. B. Hill.

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- FREDERICK L. ALLEN, New York City.
1 Specimen of Willemite, from Franklin Furnace, N. J.
- E. MOGAWLY BANON, M.E., Chicago, Ill.
1 Specimen of Crystalline Magnesite, from near the town of Valley, State of Washington.
- BARNUM BROWN, New York City.
Specimen of Cubanite, from Cuba.
- CECIL A. BROWN, U.S.S. Montana.
Specimen of Catlinite, 2 pipes carved from Catlinite.
- JOHN H. DEANE, New York City.
Specimen of Cerussite on Galena.
- J. H. ELBY, M.E., Spokane, Washington.
1 Specimen Brucite, Stevens Co., Washington.
3 Specimens Magnesite, Chewelah, Washington.
2 Specimens Strengite on Cacoenite, Lancaster Co., Pa.
- DEPARTMENT OF GEOLOGY (Transfer).
425 Specimens of miscellaneous minerals recently received in the Department of Geology with a purchase of Meteorites.
61 Specimens of miscellaneous minerals.
- ALBERT G. and JEROME J. HANAUER, New York City.
78 Specimens of Copper, Calcite, Silver and other associated minerals, from Lake Superior.
5 Carved Agmatolite pieces, from China.

- ALFRED C. HAWKINS, New York City.
1 Polished specimen of Mexican Onyx.
- W. L. HILDBURGH, New York City.
11 Small specimens of Copper and 3 of Silver, from Lake Superior.
- A. O. IHLSING, New York City.
3 Specimens of Manganese Ore, from Batesville, Ark.
- O. J. LEE, New York City.
12 Specimens of Thulite (pink Zoisite) with Feldspar, Mitchell Co., N. C.
- JAMES G. MANCHESTER, New York City.
1 Specimen of Microcline (Amazonstone) from Valhalla, N. Y.
- J. P. MORGAN, New York City.
3 Specimens of Opal from Humboldt Co., Nev.
2 Specimens of Tourmaline from Brazil.
1 Specimen of Tourmaline from San Diego County, Cal.
- F. D. PAGLIUCHI, E.M., New York City.
1 Specimen of Garnierite.
- H. PAPKE, West Hoboken, N. J.
5 Specimens of Babingtonite, from West Paterson, N. J.
- DR. L. D. RICKETTS, New York City.
1 Specimen, about 6" x 13" x 20", of moss-like development of Limonite and Manganese Oxide entangling crystals of native Copper bearing tufts of Malachite, from Junction Mine, Warren, Ariz.
- GEORGE S. SCOTT, New York City.
1 Specimen of Albite from Pelham Bay Park and 1 of Quartz from Bronx.
- MISS MARION SMITH, for her father, Nelson Smith.
1 Pair of Moss Agate Cuff Links and 5 specimens of polished Agates.
- CAPTAIN ROBERT F. TOMPKINS, New York City.
7 Specimens of Copper Glance Ore, from Nova Scotia.
- U. S. ASSAY OFFICE, New York City.
4 Sets of copies of Platinum nuggets, from Nishi, Tajelskoi, Russia.
- DR. PAOLO DE VECCHI, New York City.
62 Specimens of Minerals.
- BY EXCHANGE
- H. PAPKE, West Hoboken, N. J.
2 Specimens of Calcite and 1 of Gmelinite, from Great Notch, N. J.
1 Specimen of Calcite and 1 of Gypsum, from West Paterson, N. J.
- BY PURCHASE
- 1 Anglesite, Salt Lake Co., Utah.
1 Argentite, Batapolis Mine, Chihuahua, Mexico.
1 Beryl (Aquamarine), Bahia District, Brazil.
1 Bismuthinite and Molybdenite, New South Wales.
1 Chabazite and Heulandite, Paterson, N. J.
3 Chalcopyrite, Niigata, Japan.
3 Chrysocolla, Warren, Ariz.
1 Copper (native), Calumet, Mich.
1 Cristobalite, Tuscan Springs, Cal.
3 Datolite, Westfield, Mass.
1 Embolite, Broken Hill, Australia.
1 Fluorite encrusted with Barite, Prov. of Quebec, Canada.
1 Iron (native), Cassel, Germany.
1 Malachite and Aurichalcite, Bisbee, Ariz.
1 Malachite, Bisbee, Ariz.
1 Marcasite in Calcite, Konsberg, Norway.
3 Orpiment, Manhattan, Nev.
1 Pectolite, West Paterson, N. J.
3 Pyrite, Niigata, Japan.
1 Pyromorphite, Broken Hill, New South Wales.
2 Realgar, Manhattan, Nev.
2 Scheelite, Mohave Co., Ariz.
1 Silver, Batapolis Mine, Chihuahua, Mexico.
1 Smithsonite, Joplin, Mo.
1 Smithsonite, Kelly, N. Mex.
1 Sphalerite, Niigata, Japan.

- 1 Stevensite, Springfield, N. J.
- 1 Tremolite, Bogson, Hungary.
- 2 Tungstite, Oruro, Bolivia.
- 1 Yttrotantalite, Ytterby, Sweden.
- 1 Zeyringite, Flatschach, Styria.

MATILDA W. BRUCE FUND

- 1 Achtaragdite, Siberia.
- 1 Albite, Lungnetz, Switzerland.
- 1 Apophyllite, Chester Co., Pa.
- 1 Aragonite, Mexico.
- 1 Argentite in Quartz, Tonopah, Nev.
- 1 Argentite and Proustite, Tonopah, Nev.
- 1 Axinite, Franklin, N. J.
- 7 Babingtonite, West Paterson, N. J.
- 2 Beryl, Pala, San Diego Co., Cal.
- 1 Calcite, Cumberland, England.
- 1 Cerargyrite in Kaolin, Broken Hill, Australia.
- 1 Crestmoreite, Riverside Co., Cal.
- 1 Diopbase, Altyn Tube, Kirghese Steppes, Siberia.
- 1 Fluorite, Phoenixville, Pa.
- 1 Fluorite, Cornwall, England.
- 1 Iodyrite, Broken Hill Mine, Australia.
- 2 Lapis Lazuli, Chile.
- 1 Miersite, Broken Hill, New South Wales.
- 1 Opal, Australia.
- 2 Proustite, Tonopah, Nev.
- 1 Pyrite and Chalcopyrite, Colorado.
- 1 Quartz, Ouray Co., Col.
- 2 Rubellite, Mt. Mica, Maine.
- 2 Scheelite with Tungstite, Sonora, Mexico.
- 1 Silver, Cobalt, Ontario, Canada.
- 1 Spencerite, British Columbia.
- 1 Sphalerite, Joplin, Mo.
- 1 Sulphur, Sicily, Italy.
- 1 Temiskamite, Cobalt, Ontario, Can.
- 1 Temiskamite, Elk Co., Ontario, Can.
- 1 Tourmaline, Oxford Co., Maine.

- 1 Tourmaline, Fort Washington Ave. and 171st St., N. Y. C.
- 1 Uranopilite, Montrose Co., Colo.
- 2 Variscite, Canada.
- 1 Vanadinite, near Maricopa, Ariz.

DEPARTMENT OF WOODS
AND FORESTRY

BY GIFT

- CHARLES C. DEAM, Bluffton, Ind.
Spray of Schneck's oak, from Bluffton, Ind.
- J. E. GRIBBLE, Medford, Oreg.
Sprays of Oregon ash and Broad-leaved maple, from Medford, Oreg.
- J. R. HALL, Santa Barbara, Cal.
California sycamore, Western cherry, Sprays of laurel, Broad-leaved maple, Oregon ash, from Santa Barbara, Cal.
- A. C. HAWKINS, Washington, D. C.
Collection of Cuban woods (23 specimens).
- WILLIAM J. HAYES, Colombia, S. A.
38 Specimens of native Colombian wood.
- WILLIAM E. LAWRENCE, Corvallis, Oreg.
Sprays of Broad-leaved maple, Oregon ash, from Corvallis, Oreg.
- N. F. MACDUFF, Grant's Pass, Oreg.
Sprays of Oregon ash and Broad-leaved maple, from Grant's Pass, Oreg.
- PROF. DAVID M. MOTTIER, Bloomington, Ind.
2 Sprays of Blue ash, from Bloomington, Ind.
- THORNTON P. MUNGER, Portland, Oreg.
Sprays of Oregon ash and Broad-leaved maple, from Portland, Oreg.
- J. C. NASE, Clifton, Ariz.
Sprays of Arizona sycamore and Mexican walnut, from Clifton, Ariz.
- JAMES H. OWENS, Yonkers, N. Y.
Piece of wood, Nannyberry, cut August 5, 1893, a queer twisted growth about three feet long, from Nodine Hill, Yonkers, N. Y.

- EDWARD C. SCOTT, Oswego, N. Y.
Collection of Porto Rican woods, 82 pieces about 2×3 inches, polished on one side; about 40 varieties.
- H. BASIL WALES, Chiricahua, Ariz.
Sprays of Arizona sycamore and Mexican walnut, from Chiricahua, Ariz.

BY PURCHASE

- 62 Forestry photographs, from Seattle, Wash.
- One spray of Douglas spruce, from Estes Park, Colo.

DEPARTMENT OF INVERTEBRATE ZOOLOGY

BY GIFT

- CHARLES P. ALEXANDER, Lawrence, Kan.
75 Tipulidæ (Diptera), Larvæ, Pupæ and Mature Insects.
- ROY C. ANDREWS, New York City.
34 Insects, from China.
- EDWARD VERAS ARANGUA, Cambridge, Mass.
11 Hymenoptera, 1 Orthopteron, 21 Arachnids, 4 Centipedes, from Chile.
- DR. A. N. ARINOFF, Pine Bush, N. Y.
3 Lepidoptera.
- DR. WILLIAM BARNES, Decatur, Ill.
7 Lepidoptera (including 1 Paratype and 2 Metatypes).
- C. WILLIAM BEEBE, New York City.
8 Hymenoptera (including 6 types and 1 cotype), from British Guiana.
- E. L. BELL, Flushing, N. Y.
88 Lepidoptera, 19 Beetles, 159 Coleoptera, Hymenoptera, etc.
- JOHN BELL, Los Angeles, Cal.
Alcoholic specimens of Myriapods, Insects, Crustacea, etc., from Los Angeles, Cal.
- DR. J. BEQUAERT, New York City.
550 North American Insects.
120 Mollusca, including 103 type specimens, from Belgian Congo, Africa.
- FRANCIS BERLINER, New York City.
1 Roach and 1 Beetle, from Cristobal, near Ft. Sherman, Panama.
- HENRY BIRD, Rye, N. Y.
1 Metatype of Bird, from California.
- W. S. BLATCHLEY, Indianapolis, Ind.
6 Insects from Florida.
- C. H. BLOOD, New York City.
1 Aberrant Hesperid, from Riverdale, N. Y.
- WALTER BRANDLER, Los Angeles, Cal.
200 Mollusca, 100 Isopods, 100 Insects, from Los Angeles, Cal.
- BARNUM BROWN, New York City.
706 Insects and Spiders from Cuba.
- REV. HARRY R. CALDWELL, Suffern, N. Y.
About 8000 Insects from China.
- GEORGE K. CHERRIE, New York City.
6 Beetles, from Matto Grosso, Brazil.
- B. PRESTON CLARK, Boston, Mass.
About 720 Hymenoptera from South America; 3 Land Shells from Mindanao, Philippines; 52 Lepidoptera from Costa Rica and 792 from the Philippines; 250 Insects from near Winnipeg; and 70 from Venezuela.
- HOWARD H. CLEAVES, New Brighton, S. I.
Numerous Bird lice.
- PROF. T. D. A. COCKERELL, Boulder, Colo.
1 *Parlatoria pseudaspidotus* and numerous Plant lice from Colorado.
- WILLIAM P. COMSTOCK, New York City.
1 *Sesia*, from Newark, N. J.
6 Specimens of food plants of Lepidoptera, from California.
2 Hemiptera and 10 Odonata, from New Jersey.
- SGT. EDWARD D. CRABB, A. E. F., France.
23 Land snails, from France.
- WILLIAM T. DAVIS, New Brighton, S. I.
3 Microlepidoptera and 2 pupæ, from Cold Spring (L. I.), N. Y.
8 Beetles, from Arizona.
1 Megathymus, 2 Noctuids.
- WALTER DEWSNAP, New York City.
67 Lepidoptera and 1 Beetle.
- E. L. DICKERSON, Nutley, N. J.
A collection of Insects affecting the *Hibiscus*, with numerous specimens of the plant showing the insect injuries, from New Jersey.

- R. P. DOW, Brooklyn, N. Y.
 Numerous Thrips, from Alpine, N. J.
 23 Coleoptera, from Fresno Co., Cal.
 61 Insects and 1 Myriapod, from Catskill Mts., N. Y., and Claremont, N. H.
 48 Lepidoptera and 1 Parasitic Worm.
- WALTER GRANGER, New York City.
 About 300 Insects from Gardner, Colo.
- A. GUSSMAN, New York City.
 11 Small marine shells.
- JOHN F. HABBE, Indianapolis, Ind.
 5 Mollusca.
- G. C. HALL, New York City.
 9 Lepidoptera.
- ALBERT G. and JEROME J. HANAUER, New York City.
 Corals, shells, sponges, etc.
- EDWARD D. HARRIS, New York City.
 25 Beetles and cocoon, from various places; about 960 Hymenoptera, from Southern Pines, N. C.; 70 Coleoptera, from Africa, 9 from Southern Pines, N. C., 6 from Nebraska, and 202 from various other places.
- MORGAN HEBARD, Philadelphia, Pa.
 69 Orthoptera.
- DR. E. O. HOVEY, New York City.
 6 Alcoholic specimens of Crustacea and Myriapoda and 2 Beetles, from Mammoth Cave, Ky.
- B. T. B. HYDE, New York City.
 2 Water-color drawings of caterpillars, cocoons and moths.
 110 Insects and Spiders, from Aztec, N. Mex.
- DEPARTMENT OF ICHTHYOLOGY (Transfer).
 Alcoholic specimens of parasitic copepods and flukes, from Atlantic Coast.
- FRANK M. JONES, Wilmington, Del.
 44 Lepidoptera from Southern and Western United States.
- A. B. KLOTS, New York City.
 1 *Papilio* and 1 *Callicore*—aberrations.
- MISS L. LEGGETT, New York City.
 1 Glass sponge.
- CHARLES W. LENG, New York City.
 71 Beetles, from South America.
- R. A. LEUSSLER, Omaha, Neb.
 125 Lepidoptera, including 1 cotype, and 18 Hesperiidæ, from Colorado and Nebraska.
- C. LEWIS, New York City.
 1 Specimen of Hair Worm.
- ALBERT E. LURCH, New York City.
 120 Insects, chiefly Lepidoptera, from Connecticut, New Hampshire, and Massachusetts.
- DR. F. E. LUTZ, New York City.
 Worms from cyst in crop of a chicken.
- C. K. MACFADDEN, New York City.
 3 Longhorn Beetles, from Honda, Colombia.
- DR. WILLIAM M. MANN, Washington, D. C.
 166 Beetles, from Capland, Haiti, and Brazil.
 550 Insects, from the Bahamas.
- WALTER C. MATHIAS, Portland, Ore.
 137 Insects, chiefly Lepidoptera, from Washington and Oregon.
- W. DEW. MILLER, New York City.
 2 Hippoboscids from Red-tailed Hawk.
- H. B. MONGES, New York City.
 1 Beetle from Cuba.
- MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.
 14 Coleoptera from Solomon Islands.
- HOWARD NOTMAN, Brooklyn, N. Y.
 4 Coleoptera and 220 Hymenoptera from Essex Co., N. Y.
 22 *Satyrus*, Keene Valley, N. Y.
- DR. R. OTTOLENGUI, New York City.
 5 Plusias, from North America.
 42 Lepidoptera, from South America.
- CHARLES L. POLLARD, Bethel, Me.
 10 Lepidoptera, from California.
- H. E. RAUCH, Mt. Vernon, N. Y.
 Pink Katydid.
- CHARLES H. ROGERS, New York City.
 Claw of large Lobster and piece of wood with Barnacles attached, both from Long Beach, N. Y.
- ALEXANDER SAUNDERS, Yonkers, N. Y.
 1 Cecropian Moth.
- F. J. W. SCHMIDT, Stanley, Wis.
 296 Insects, from Stanley, Wis.

ERNEST SHOEMAKER, Brooklyn, N. Y.
2 Coleoptera from Slide Mt., N. Y.;
544 Insects, mostly Hymenoptera,
from various places.

ROBERT K. STRAUS, Mt. Kisco, N. Y.
1 Walking Stick.

A. H. STURTEVANT, Columbia University,
N. Y. C.

51 Diptera, including 1 type specimen;
1 Coleopteron.

H. THURSTON, Brooklyn, N. Y.
About 500 Insects of various orders.

F. E. WATSON, New York City.

87 Insects from Mosholu, N. Y.; 40
Lepidoptera and 4 Pupæ.

F. E. WATSON and E. L. BELL, Flushing,
N. Y.

38 Insects of various orders, from
Greenwood Lake Glens, N. J.

HARRY B. WEISS, New Brunswick, N. J.

Mole cricket and photographs (12
specimens); 9 Homoptera, 15 *Pedicularis
corporis*, 54 Hymenoptera; 8
Specimens of *Rhabdoscelis tenuis*
and 10 specimens of their work; 9
Specimens of *Zeugophora scutellaris*,
6 specimens of their larvæ and
10 of their work; 28 Specimens of
Beetles, also about 30 specimens of
plants and seeds showing the damage
caused by the insect, from New
Jersey; a collection of insects affect-
ing the Hibiscus, with specimens
of the plant showing the insect in-
juries, from New Jersey.

DR. H. E. WHEELER, Conway, Ark.

3 Specimens of *Arkansia wheeleri*,
W & O, from Old River of Quachita,
near Arkadelphia, Ark.

WILLIAM S. WRIGHT, San Diego, Cal.
500 Lepidoptera, from California.

BY EXCHANGE

DR. JOS. H. PAZOS, Cuba.
30 Beetles.

MRS. LILLIAN DYER THOMPSON, Cam-
bridge, Mass.

30 Microscopic slides of mollusk
radulæ, also 19 shells from which
the mounted material was taken.

W. H. WEEKS, Brooklyn, N. Y.
254 Marine and fresh-water shells.

BY PURCHASE

102 Beetles.

14 Lepidoptera from Tropical America.
2000 Beetles.

Collection of Pacific Mollusks, Brachi-
opods, and Corals, comprising about
100 species, 464 specimens, mostly
from Puget Sound.

227 Lepidoptera, 442 Coleoptera, 657
Hymenoptera, from Gull Lake,
Canada.

THROUGH MUSEUM EXPEDITIONS

Crustacea, Mollusca, Chordata, An-
nulated, Echinodermata, Myriapoda,
about 2000 specimens, from Cuba.
Collected by Barnum Brown.

Corals and sponges from Bahamas.
Collected by Dr. E. O. Hovey.

Numerous Insects, Spiders, Spider
Webs, etc., from Ramsey, N. J.
Collected by Dr. Frank E. Lutz.

Invertebrates, from Woods Hole,
Mass. Collected by R. W. Miner.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

FISHES

BY GIFT

THEODOOR DE BOOY, Yonkers, N. Y.

6 Catfish and 6 Characins.

W. BRIND, New York City.

Aquarium fishes.

MORTIMER H. COOPER, Bridge Hampton,
L. I.

1 Orange Filefish and 1 Sea Raven,
from Bridge Hampton.

DR. HERMAN HAUPT, JR., South Haven,
Mich.

12 Lake Herrings, 1 Perch, 1 Minnow;
10 fishes (White-fish, Perch, etc.),
from Lake Michigan.

DR. E. O. HOVEY, New York City.

2 Blindfish, from Mammoth Cave, Ky.

DEPARTMENT OF INVERTEBRATE ZOOLOGY
(Transfer).

12 Specimens of *Pacilia vivipara* from Porto Rico; 4 Specimens of *Gambusia affinis*; 3 Specimens of *Heterandria zonata* from Florida; 1 Specimen of *Pygosteus* from Siberia; 10 Young Eels and 3 Sticklebacks.

ROY LATHAM, Orient, L. I.

Specimens of Long Island fishes (16); 1 *Chloroscombrus chrysurus*, 1 Black Rudder-fish, head of Squirrel Hake, from Orient, L. I.

ANDREW B. MOONEY, New York City.

Cowfish, from Bellaire, Florida.

MUSEU NACIONAL, Rio de Janeiro.

Blind Catfish, from Iguape, Brazil.

L. J. and F. NAGELE, New York City.

1 "Daylight."

HUGO C. NELLES, New York City.

45 Aquarium fishes.

OCEAN LEATHER CO., New York City.

Sample hide of Hammerhead and Ground Sharks and hide of Pavement Shark; jaws of Cub Shark, from Cape Lookout, North Carolina.

FREDRICK SCHWARZ, Bronx, N. Y.

1 Orange Filefish, from Brooklyn Navy Yard.

ERNEST THOMPSON SETON, Cos Cob, Conn.

13 Fishes from Winnipeg.

MISS HELEN L. SQUIER, New York City.

Jaws and piece of backbone of Ground-shark.

MISS ADA THOMSON, New York City.

6 Fossil fishes from Scotland.

H. S. TRULL, New York City.

1 Aquarium net.

DR. P. DE VECCHI, New York City.

1 Fossil fish and 1 fossil fish-scale.

BY EXCHANGE

CARNEGIE MUSEUM, Pittsburgh, Pa.

80 Species (254 specimens) of South American fishes.

PROF. T. L. HANKINSON, Charleston, Ill.

A collection of Minnows of 20-odd species (144 specimens).

CARL L. HUBBS, Field Museum, Chicago, Ill.

12 Species, about 40 specimens, of fishes from California.

MUSEU NACIONAL, Rio de Janeiro.

25 Fishes from Rio de Janeiro.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

Specimen of *Pleurogrammus monopterygius*, from Alaska.

BY PURCHASE

Clear-nosed Skate.

Sea Sunfish (*Mola mola*), from off Gravesend Bay.

THROUGH MUSEUM EXPEDITION

Arctic Fishes, from Greenland.
Crocker Land Expedition.

REPTILES AND BATRACHIANS

BY GIFT

DEPARTMENT OF ANTHROPOLOGY (Transfer).

1 Alligator, skin mounted.

NEW YORK AQUARIUM, New York City.

1 Crocodile, from Florida; 1 Turtle, from Staten Island, N. Y.

ROSWELL BAERMAN, New York City.

8 Snakes, from Cold Spring, N. Y.

FREDERICK BLASCHKE, New York City.

1 Snake, from Cold Spring, N. Y.

BARNUM BROWN, New York City.

5 Frogs, 2 toads, 83 lizards, 13 snakes, 1 turtle, from Cuba.

CARSON CITY SCHOOL, Carson City, Nev.

13 Frogs, 1 toad, 5 lizards, 1 snake, from Carson City, Nev.

MORTON L. CHURCH, Marshall, S. C.

1 Lizard, from South Carolina.

GEORGE ENGELHARDT, Brooklyn, N. Y.

1 Salamander, from Big Indian Valley, Catskill Mts., N. Y.

MRS. L. J. FRANCKE, Glen Head, L. I.

1 Snake, from Glen Head.

ARTHUR G. GILLAM, Flushing, L. I.

1 Snake, from Canaveral, Fla.

- DR. HERMAN HAUPT, JR., South Haven, Mich.
4 Toads, 7 snakes, 2 turtles, from South Haven, Mich.
- DR. E. O. HOVEY, New York City.
1 Salamander, 1 lizard, 4 snakes, from Mammoth Cave, Ky.
- MRS. AUSTIN HUNTINGTON, New York City.
1 Snake skin.
- B. T. B. HYDE, Aztec, N. Mex.
1 Lizard, 6 snakes, from Aztec, N. Mex.
- DEPARTMENT OF INVERTEBRATE ZOOLOGY (Transfer).
2 Frogs, 1 lizard, from Gainesville, Fla.; 1 toad, from Wisconsin; 3 lizards, from Los Angeles, Cal.
- R. D. O. JOHNSON, Phoenix, Ariz.
2 Lizards, 1 snake, from Phoenix, Ariz.
- WILLIAM KEARNS, New York City.
1 Toad, from New York City.
- MORNINGSIDE COLLEGE (Dept. Biology), Sioux City, Iowa.
3 Frogs, from Sioux City, Iowa.
- MAJOR J. M. MOSS, Camp Kearny, Cal.
1 Snake, from Camp Kearny, Cal.
- J. T. NICHOLS, New York City.
32 Snakes, 1 turtle, from Mastic, L. I.
- G. K. NOBLE, New York City.
3 Lizards, from Filamore, Utah.
- HERBERT J. PACK, Salt Lake City, Utah.
4 Salamanders, 41 frogs, 105 toads, from Utah.
- DEPARTMENT OF PARKS, New York City.
1 Snake.
- JOHN J. PAUL, Watertown, Fla.
7 Turtles, from Florida.
- OSCAR F. QUARTERMAN, Canaveral, Fla.
5 Turtles, from Florida.
- WILLIAM H. ROGERS, Las Vegas, Nev.
9 Frogs, 5 lizards, 2 snakes, from Las Vegas, Nev.
- F. J. W. SCHMIDT, Stanley, Wis.
1 Frog, from Stanley, Wis.
- ERNEST THOMPSON SETON, Greenwich, Conn.
4 Salamanders, 55 frogs; 8 toads; 8 snakes; 2 turtles, from Manitoba, Canada.
15 Frogs, from Connecticut.
- KARL B. SMITH, Philadelphia, Pa.
3 Snakes, from Eden Mine, Nicaragua.
- R. SPEIGHT, Canterbury Museum, Christchurch, New Zealand.
9 Wetas, food of *Sphenodon*, from Peel Forest, Canterbury, N. Z.
- DR. HERBERT J. SPINDEN, New York City, (Transfer from Dept. of Anthropology).
2 Snakes, from Salvador, Central America.
- T. C. STEPHENS, Sioux City, Iowa.
1 Frog, from Milford, Iowa.
1 Toad, from Sioux City, Iowa.
- GEORGE W. STOKES, New York City.
1 Lizard, from Colombia, S. A.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
1 Snake, from Georgia; 3 snakes, from Florida; 2 snakes, from Texas; 1 snake, from Panama; 3 frogs, 1 lizard, 1 snake, from South America; 1 lizard and 4 snakes, from Australia.

BY EXCHANGE

- COMMERCIAL MUSEUM, Philadelphia, Pa.
11 Salamanders, 1 cæcilian, 159 frogs, 169 lizards, 374 snakes: Cope Collection from Central America and Colombia.
- THOMAS HALLINAN, Paterson, N. J.
169 Frogs, 57 toads, 79 tadpoles, 334 lizards, 29 snakes; from Chile.

BY PURCHASE

- 27 Frogs, 2 snakes, 2 turtles, from Eureka, Fla.
- 35 Lizards, 20 snakes, from San Antonio, Texas.
- 1 Lizard, from Chipley, Fla.

THROUGH MUSEUM EXPEDITION

- 46 Frogs and toads, 17 lizards, 16 snakes; from Fukien and Yunnan Provinces, China. Collected by R. C. Andrews and E. Heller. (Transfer from Dept. of Mammalogy.)

DEPARTMENT OF MAMMALOGY
AND ORNITHOLOGY

MAMMALS

By Gift

NEW YORK AQUARIUM.

Young Manatee, from Amazon, in flesh.

BARNUM AND BAILEY, Bridgeport, Conn.
Giant Kangaroo, skeleton.

FREDERICK BLASCHKE, New York City.
Deer (skin, skull and leg bones),
from Cold-Spring-on-the-Hudson,
N. Y.

FRANK L. HARRIS, Ashaway, R. I.
Skeleton of a Mole, from Ashaway.

F. BURTON HARRISON, Manila, Philip-
pine Islands.
Skin and skull of a Tamarao; 1 set
of horns of a Tamarao.

FREDERIC KENNARD, Newton Centre,
Mass.
Foetus of Tapir.

MISS JANE LEVENS, New York City.
2 Acouri (native name) embryos,
from Potaro River, British Guiana.

FRANK E. LUTZ, New York City.
Squirrel skull, from British Guiana.

DEPARTMENT OF PARKS, New York City.
Tiger, skin and skeleton; Russian
Bear, skull; Deer, skull; Raccoon;
Aoudad; Indian Antelope; 2 Red
Foxes; Red Deer; 3 Opossums;
Elk; 9 Monkeys; Lion and Lion
cub; Leopard.

GEORGE T. POWELL, Ghent, N. Y.
3 Field Mice, in flesh.

MRS. H. O. PUNSHON, Denver, Colo.
Black and tan Dog.

WILLIAM C. RIVES.
1 Mole.

ERNEST THOMPSON SETON, Greenwich,
Conn.
7 Mice; skull of a Skunk; Pine Mar-
ten, in flesh; 3 Bats in alcohol; 2
Mink skeletons.

D. C. STULL, Provincetown, Mass.
Samples of Ambergris.

MISS THEODORA WILBOUR, New York
City.

Pekinese Dog, mounted.

NEW YORK ZOÖLOGICAL SOCIETY.

Altai Wapiti, skeleton; Baboon, skele-
ton; Agouti, skeleton; Lemur, skin
and skeleton; Indian Rhinoceros,
skin and skeleton; large Black
Squirrel, skeleton; from India;
Kinkajou, skeleton; Cuban Rat, skin
and skeleton; Albino Woodchuck,
skin and skeleton; Mangabey
Monkey, skin and skeleton; Woolly
Monkey, skeleton; Sitatunga, skele-
ton; Double-humped Camel, skele-
ton; Thamengeld's Deer, skin and
skeleton; Coatimundi, skin and
skeleton; 2 Badgers, skins and skele-
ton; Paradoxure, skin and skele-
ton; White-tailed Gnu, skin and
skeleton; Wallabies, 1 skin and 2
skeletons; *Herpestes*, 1 skin and 2
skeletons; Opossum, skeleton; 4
Phalangiers, skins and skeletons (1
Flying and 1 Spotted); Kangaroos,
5 skins and 6 skeletons (1 Tree and
1 Giant); Columbian Deer.

By Exchange

COLORADO MUSEUM OF NATURAL HISTORY,
Denver.

11 Rabbits, 1 Skunk, 5 Weasels, 5
Squirrels, 13 Chipmunks, 6 Mice, 3
Wood Rats, 2 Gophers, 2 Kangaroo
Rats and skulls, 2 Mountain Goats;
2 Antelopes; 3 Blacktail Deer, 1 skin
and 3 skulls; from British Colum-
bia and California.

OAKLAND MUSEUM, Oakland, Cal.

Sea Otter, skeleton; Coon, skin and
skull; from California.

CARLOS S. REEDS.

1 Rabbit, skin and skull, from Argen-
tina.

ERNEST THOMPSON SETON, Greenwich,
Conn.

Pine Marten in flesh.

By Purchase

Tusks of African Elephant, from Mt.
Kenia, Africa.

- 8 Skins and 5 skulls: 3 *Herpestes*, 2 Pigs, 1 Badger, 1 Deer, 1 Cat; from China.
- 2 Muskrats, in flesh, from Unionport, Bronx.
- 3 Mounted Wolves.
Gibbon.
- Skin of Wild Cat (*Felis catus*), from Dobrudushka, Rumania.
- Imperfect skeleton of *Lynx vulgaris*.
Series illustrating structure, location, growth, replacement, and modifications of teeth; skeletons of Chamois, Tarsier, and Marmoset; mounted skeletons of Black Bear, from Maine; Chamois; Proboscis Monkey, from Borneo; Languer Monkey, from India; Monkey, skull, from Java; 2 feet of Pig.

THROUGH MUSEUM EXPEDITIONS

- 1 Bottle of alcoholics (Bats), from Cuba. Collected by Barnum Brown.
- 25 Blue Foxes; 9 Arctic Hares, skulls; 4 adult Polar Bears, 3 cubs with skull, 3 adult skulls; 8 Walrus skulls, 7 tusks, 1 skin of head; 1 Narwhal skeleton, 5 tusks; 1 White Seal with skull and leg bones, 3 dried; 4 White Wolves, 5 Wolf skulls, 1 set White Wolf leg bones; 5 Musk-oxen; 30 Lemmings.
Crocker Land Expedition.

BIRDS

BY GIFT

- DR. W. H. BERGTOLD, Denver, Colo.
Egg of Great Sulphur-crested Cockatoo.
- FREDERICK BLASCHKE, New York City.
Rouen Duck in the flesh.
- C. M. BREDER, Newark, N. J.
Long-billed Marsh Wren, skin, Newark, N. J.
- W. L. BRIND, New York City.
3 Saffron Finches, in flesh.
- MISS C. F. CARTER, New York City.
Skylark in flesh, from New York City.
- HENRY CHAPIN, New Brighton, Staten Island, N. Y.
Flicker, in flesh, from New Brighton.
- MRS. W. S. CURRIE, New York City.
Lady Gould Finch skin, from Sound Beach, Conn.
- PAUL ENGEL, New York City.
Hawk, in skin, from Halcott Mt., N. Y.
- DONALD FARLEY, New York City.
Downy Woodpecker, in flesh.
- DONALD FARLEY AND BARRETT KLOTS.
Herring Gull, from Long Beach, L. I.
- WILLIAM FLOYD, Mastic, L. I.
2 Mergansers.
- MRS. A. K. FRASER, New York City.
House Sparrow, in flesh, New York City.
- H. D. GOODALE, Amherst, Mass.
6 Ducks and 5 Chickens.
- MRS. M. S. GREEN, Far Rockaway, N. Y.
Hermit Thrush, in flesh.
- A. GUSSMAN, New York City.
Skin of Penguin.
- MRS. LEO HART, New York City.
Mounted White Owl.
- ERNEST INGERSOLL, New York City.
Skin of a Gray-cheeked Thrush, from Hopedale, Labrador.
- MRS. ANDREW IRWIN, Washington, Conn.
Freak hen's egg.
- R. D. O. JOHNSON, Phoenix, Ariz.
Barn Owl received alive, from Phoenix, Ariz.
- JUSTUS VON LENGERKE, New York City.
6 Goshawks, 4 Marsh Hawks, 1 Golden Eagle, 2 Crows, 4 Sparrow Hawks, 3 Red-shouldered Hawks, 7 Cooper's Hawks, 1 Pileated Woodpecker, 1 Pigeon Hawk, 45 Sharp-shinned Hawks; all in the flesh, from New Jersey.
- BROTHER APOLINAR MARIA, Bogota, Colombia.
59 Bird skins from Bogota.
- A. E. McILHENY, Avery Is., La.
20 Little Blue Herons, from Avery Is.

W. DEW. MILLER, New York City.
 1 House Sparrow in flesh, three eggs of Screech Owl, 1 Wood Thrush in flesh; 1 Barred Owl, 1 Hermit Thrush, 1 Hairy Woodpecker; from vicinity of New York City.

PATRICK MONAHAN, New York City.
 1 Pigeon, New York City.

T. H. MORGAN, Columbia University.
 Sebright Bantam.

J. T. NICHOLS, New York City.
 Black Duck, Mastic, L. I.

WILLIAM P. OTIS, Bloomingburg, N. Y.
 Great Horned Owl, in flesh, Bloomingburg, N. Y.

DEPARTMENT OF PARKS, New York City.

3 Black Swans, 1 Chinese Goose and 3 common Geese, 1 Bald Eagle, 2 Golden Eagles, 1 Screech Owl, 3 Weaver Birds, 2 Mute Swans, 10 Parrots, 2 Guinea Hens, 1 European Blackbird, 4 Cockatoos, 1 Kingfisher, 1 Toucan, 1 Owl, 3 Parakeets, 2 Macaws, 1 Ring Dove, 1 Brown Thrasher, 1 Silver Pheasant, 1 Starling, 1 Song Thrush, 4 Canaries, 1 Coot.

MRS. ELEANOR PENNEY, Brooklyn, N. Y.
 1 Brazilian Parrot.

A. PINKUS AND EDWARD CHALIFF, New York City.
 1 Saw-whet Owl, New York City.

PRYOR PRAY, New York City.
 1 Purple Grackle and 1 Crow, near New York City.

WILLIAM ROCKEFELLER, Tarrytown, N. Y.
 1 Australian Maned Goose, in flesh.

C. H. ROGERS, New York City.
 2 Holboell's Grebes, in flesh, and 1 Sanderling, both from Long Beach, L. I.

LOUIS RUHE, New York City.
 2 Parrots, in flesh.

DR. L. C. SANFORD, New Haven, Conn.
 2 Sterna and shoulder girdles of Trumpeter Swans, from Okanagan, British Columbia.

G. SEBILLE, New York City.
 2 Honey Creepers, 1 Mockingbird, and 1 Hawk; all in flesh.

MR. STAFFORD.

1 Screech Owl, in flesh, from Blauvelt, Rockland Co., N. Y.

JAY A. WEBER, Palisades Park, N. J.
 1 Flicker, in flesh, and 2 skins of Cormorant.

NEW YORK ZOOLOGICAL SOCIETY.

1 Oriole, 1 American Widgeon, 1 Quail, 2 Parakeets, 4 Finches, 3 Ducks, 1 Hawfinch, 1 Ostrich, 1 Magpie Lark, 1 Flamingo, 1 Brant, 2 Geese, 1 Great White Heron, 1 Quail Dove, 1 Grackle, 5 Pigeons, 1 Spotted Eagle Owl, 4 Hawks, 1 Dove, 1 Mute Swan, 1 Titmouse, 1 Turkey Vulture, 3 Parrots, 2 Tanagers, 1 Frogmouth, 3 Herons, 1 Great Blue Heron, 2 Honey Creepers, 1 Timaliid, 1 Quail-finch, 1 Manchurian Crane, 2 Jays, 3 Weaver Birds, 2 Lories, 1 Trupial, 1 Gull, 3 Plovers, 3 Toucans, 2 Crow-shrikes, 2 Babblers, 1 Bower bird, 1 Thick-knee, 1 Cotinga, 2 Starlings, 4 White Ibises in alcohol, 1 Pitta, 1 Teal, 1 Cassowary, 1 Hornbill, 1 Goshawk, 1 Brush Turkey, 1 Bateleur Eagle, 1 Rose-breasted Grosbeak, 1 Sericima, 1 Euphonia.

JOSEPH ZUCKERMAN, New York City.
 1 Hermit Thrush, from New York City.

BY EXCHANGE

ERNEST THOMPSON SETON, Greenwich, Conn.
 1 Great Gray Owl.

JAY A. WEBER, Palisades Park, N. J.
 1 Double-crested Cormorant.

BY PURCHASE

Skin of Peregrine Falcon.
 709 Bird skins, from Peru.

DEPARTMENT OF VERTEBRATE
PALÆONTOLOGY

By GIFT

- D. M. BELL, Norfolk, Va.
Tooth of Mastodon, from Hampton Roads, Va.
- W. F. CORY, Newark, N. J.
Tooth of Mammoth, from Alaska.
- WARREN DELANO, New York City.
Vertebral column of Arabian colt, from Barrytown, N. Y. Skull and vertebral column of colt six months old, from Barrytown.
- H. K. DEVEREUX, Lexington, Ky.
Skeleton, in the flesh, of trotting horse, "Lee Axworthy," from Lexington, Ky.
- CHARLES H. STERNBERG, Lawrence, Kansas.
Collection of reptiles, from the Permian of Texas.
- CHESTER STOCK, Berkeley, Cal.
Fossil specimen (cast) from Idaho.
- THOMAS F. WHITE Co., New York City.
Head of ass, in the flesh, from New York City.
- NEW YORK ZOÖLOGICAL PARK.
Mountain zebra.

By PURCHASE

- Skeleton of *Pareiasaurus*, from Permian of South Africa.
- Skull of *Lysorophus* from Permian of Texas. Collection of fossils (dinosaurs) from Cretaceous of Alberta, found near Red Deer River, Alberta. Collection of reptiles (mostly pelycosaurs) from the Permian of Texas.

THROUGH MUSEUM EXPEDITIONS

- Pleistocene fossils from cave at Soledad, 10 m. east of Cienfuegos, Cuba, and from Baños de Ciego Montero, 18 miles N. W. of Cienfuegos, Cuba. Collected by Barnum Brown and C. Falkenbach.

To Eocene of Colorado:

Collection of fossils from Huerfano formation, Huerfano Basin, Col. (2 lots). Collected by Walter Granger and G. Olsen.

To Tertiary of Nebraska:

Collection of fossils from Snake Creek Beds, south of Agate, Neb. Collected by Albert Thomson.

DEPARTMENT OF
ANTHROPOLOGY

By GIFT

- R. C. ANDREWS, New York City (Transfer).
Costume of Cantonese laborer.
- MRS. LUCIEN ANTOINE, New York City.
Altar piece of wood in shape of cross, covered with stones and shells. Made by Indians near Chicago.
- MRS. MARY AUSTIN, New York City.
Head band of flicker feathers, from Shoshoni Indians of the Panamint Mts., Cal.
- W. EDGAR BAKER, JR., Mastic, L. I.
1 Pair long-legged moccasins of Plains Indians, from Custer Battlefield.
- GEORGE GRAY BARNARD, New York City.
Club from Marquesas.
- MRS. PAULINE BENEDIKT, New York City.
Collection of guns, bows and arrows, swords, daggers, pistols, etc., from North America.
- R. BRACE, New York City.
Ornaments made of small shells and rope from Africa.
- MRS. LILLIAN BURDON, Grand Rapids, Mich.
Alaskan specimens (1 basket and 1 bag).
- ALBRO R. CARMAN, M.D., New York City.
Collection of arrow and spear points, stone implements, etc., found in cave near Ft. Ann, N. Y., in 1857-58.

- MRS. H. C. CARTER, New York City.
Ethnological specimens from America and Hawaii.
- MICHAEL J. CLANCY, Bluefields, Nicaragua.
Ethnological and archæological collection and some books, from Nicaragua (Miskito Coast).
- HARRISON ELLIOTT, New York City.
3 Hammerstones, from Ryder's Pond, Gravesend, Brooklyn, N. Y.
- LIEUT. G. T. EMMONS, Princeton, N. J.
1 Sea Otter spear from Unalaska, 4 sword guards (iron) from Japan.
- COL. J. P. FINLEY, Governors Island, New York Harbor.
Charm, from Philippine Islands.
- MRS. EMILY J. DE FOREST, Cold Spring Harbor, L. I.
6 Pottery vessels from Peru and Mexico.
- DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY. (Transfer.)
Collection of rock specimens and 40 microscopic slides.
- MRS. A. C. HAMLIN, New York City.
1 Mat made of cocoanut fiber and maiden hair fern, 1 fan made of cocoanut fiber and maiden hair fern, and 11 other fans, from Samoa, Marshall Islands, Hawaiian Islands and Old Mexico.
- MRS. J. W. HASELHURST, New York City.
Feather robe, Sitka, Alaska.
- ALFRED C. HAWKINS, Plainfield, N. J.
Collection of arrowheads, etc., from Eastern United States and Texas.
- HAROLD HERRICK, New York City.
1 Copper axe, from Monroe Co., Mich.
- GEORGE G. HEYE, New York City.
77 Phonograph records made by Dr. Washington Matthews of Navajo Yebi-chai Ceremony. (Hyde Expedition.)
- DR. W. L. HILDBURGH, New York City.
1 Lamaistic tablet, from China.
Ethnological collection, chiefly from North America.
- ANDREW G. INFANTE, New York City.
5 Archæological specimens, Colombia.
- JOHNSON, COWDIN & Co., New York City.
Samples of silk ribbons with designs suggested by various birds. (Designs by Emil Speck.)
- A. L. KROEBER, San Francisco, Cal.
Human hair.
- MRS. FREDERIC S. LEE, New York City.
Beaded bandoleer. Made by "The White Calf that Jumped from the Hill into the Water"—a Crow Indian.
- MISS M. E. LESTER, White Plains, N. Y.
Beaded saddle trimmed with wool fringe and beaded saddle blanket trimmed with wool fringe.
- DEPARTMENT OF MAMMALOLOGY. (Transfer.)
Human skull and mandible (Mongol).
- DR. FELIX VON OEFELE, New York City.
2 Babylonian tablets.
- DR. ELSIE CLEWS PARSONS, New York City.
Ethnological collection from Zufi and Acoma, New Mexico.
- JACOB ROSENZWEIG, New York City.
10 Broken rough blades, from Flemington Junction, N. J. Collection of archæological specimens from the vicinity of New York.
- MRS. A. C. RUSSELL, New York City.
1 Mescalero basket and 2 Jicarilla baskets.
- MRS. ANNIE SARGEANT, Jersey City, N. J.
War bonnet and complete outfit of Chief White Eagle, Wind River Reservation, Wyoming, who died in France while in service, October, 1918. (17 specimens.)
- MOSES FREDERICK SAVAGE (TIFFANY Co.), New York City.
1 Silver mug, bought from Indians of Southern California.
- REMINGTON SCHUYLER, New Rochelle, N. Y.
Arrow points (21 specimens).
- WILLIAM SIEGEL, New York City.
6 Indian weapons from South America.

- KARL B. SMITH, Philadelphia, Pa.
Small stone celt from Edwin Mine, Nicaragua.
- DR. FRANK G. SPECK, Philadelphia, Pa.
1 Spoon from the Jackson-Whites.
- MISS HELEN L. SQUIER, New York City.
1 Californian and 3 Indian ethnological specimens.
- CARROLL RICHARD STEGALL, Rossville, Ga.
23 Paleolithic implements from Luebo, Kasai District, Belgian Congo, Africa.
- WILLIAM SULZER, New York City.
Alaskan baskets (9 large and 3 small).
- GENZO TANAKO, New York City.
Japanese gentleman's tobacco bag and pipe.
- HAROLD TORMESEN, Brooklyn, N. Y.
1 Pair moccasins with fur and beads.
- E. J. VALEUR, New York City.
Archæological collection: 1 stone with carving of human face, 1 rubbing stone, 1 stone ball with spiral carving, 3 celts, 3 broken celts, 1 pottery object, 11 pottery heads, and a number of pottery fragments; all from Moncion, Santo Domingo.
- MRS. SAMUEL RICHARDS WEED, New York City.
Miscellaneous collection from North and South America and the Philippines.
- LIEUT. HAROLD B. WHARFIELD, Marshfield, Wis.
Skeletal and archæological material from a cave nine miles above Ft. Apache, Ft. Apache Indian Reservation, Ariz.
- BY EXCHANGE
- BRITISH MUSEUM. (SIR HERCULES READ), London.
Archæological specimens from Europe.
- BY PURCHASE
- 16 Celts, 4 stone figures, 6 pottery figures, from Porto Rico.
Archæological collection from Salvador.
- 20 Groups of Archæological specimens from foreign countries.
Wooden image, from Easter Island.
1 Complete mounted skeleton of male Korean.
9 Pieces of clothing of the modern Indians of Cuzco, Peru.
7 Jade tablets with inscriptions in gold, from Peking, China.
Stone ax, from New York City.
1 Copper knife, from Crow Wing Co., Minn.
8 Skulls, Spanish and Negro.
6 Skulls, East Indian.
1 Boat stone, found near Stelton, N. J.
Archæological collection from Venezuela.
Collection of stone axes and drum from Colombia, S. A., and a basket from the Northwest Coast.
Modern pottery.
One complete skeleton, mounted, of a Negro man.
Specially mounted human skeleton.
Australian skull.
2 Birchbark baskets (Timigami), 4 clay figurines (Catawba), 4 pots (Catawba); from Northern Ontario and S. Carolina.
1 Complete mounted Korean skeleton (male).
- THROUGH MUSEUM EXPEDITIONS
- Archæological material from New Mexico. Collected by Earl H. Morris.
Archæological and ethnological specimens from Supai, Arizona. Collected by Leslie Spier.
Ethnological collection from the Sumu Indians, Nicaragua, and from Izalco, Salvador. Collected by Dr. Herbert J. Spinden.
2 Paintings of Dakota Sun Dance made by Short Bull, Pine Ridge, S.D. Collected by Dr. J. R. Walker.

1 Bull boat frame and 1 basket, 1 pipe, 1 bale (bone, tusk and pipe stone) from North Dakota. Collected by Gilbert L. Wilson.

Archæological collection from Flint Ridge, Ohio. Collected by Dr. Clark Wissler.

DEPARTMENT OF PUBLIC HEALTH

BY GIFT

ARLINGTON CHEMICAL Co., Yonkers, N. Y.

2 Bacterial specimens.

T. BIEHN, Chicago, Ill.

33 Bacterial specimens.

DR. H. T. CHICKERING, Rockefeller Institute, New York City.

1 Bacterial specimen.

DR. A. C. EVANS, Washington, D. C.

3 Bacterial specimens.

DR. THOMAS T. GAUNT, New York City.

Fly-trap and blue prints for its construction.

E. G. HASTINGS, Madison, Wis.

1 Bacterial specimen.

LEDERLE LABORATORIES, New York City.

15 Bacterial specimens.

DR. EDWIN LEFEVRE, Washington, D. C.

4 Bacterial specimens.

RALPH R. MELLON, Rochester, N. Y.

1 Bacterial specimen.

MT. SINAI HOSPITAL, New York City.

2 Bacterial specimens.

H. K. MULFORD Co., Glenolden, Pa.

16 Bacterial specimens.

PARKE DAVIS Co., Detroit, Mich.

50 Bacterial specimens.

PROFESSOR E. M. PICKENS, Ithaca, N. Y.

7 Bacterial specimens.

DR. IDA W. PRITCHETT, Rockefeller Institute, New York City.

4 Bacterial specimens.

COLONEL F. F. RUSSELL, Washington, D. C.

2 Bacterial specimens.

SEVERO SALECADO, New York City.

Dried kelp.

PROFESSOR J. C. TORREY, Cornell University Medical School, New York City.

2 Bacterial specimens.

DR. S. A. WAKSMAN, New Jersey Agricultural Experiment Station, New Brunswick, N. J.

15 Bacterial cultures.

PROFESSOR C.-E. A. WINSLOW, Yale University Medical School, New Haven, Conn.

1 Bacterial specimen.

YALE ARMY LABORATORY, Yale University, New Haven, Conn.

3 Bacterial cultures.

BY PURCHASE

Enlarged model of Yellow Fever Mosquito.

ART

BY GIFT

MISS MARGARET HENDERSON ELLIOT, New York City.

Bronze Bust of Daniel Giraud Elliot by Chester A. Beach.

STANLEY G. MIDDLETON, New York City.

Oil portrait of Albert S. Bickmore.

BY PURCHASE

Oil Painting, "In a Coral Garden in 10 feet of Water," Mara, Tahiti. Canvas 23" x 31". By Zarh H. Pritchard.

MISCELLANEOUS

NEW YORK HISTORICAL SOCIETY.

Mummied Cat. From Abbott Collection.

INCORPORATION

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Chas. A. Dana, Joseph H. Choate and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction. *

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes, and shall be and be classed as an educational corporation.*

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK, }
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. S.] Given under my hand and seal of Office at the City of Albany this fourteenth day of April, in the year one thousand eight hundred and sixty-nine.

D. WILLERS, Jr., *Deputy Secretary of State.*

† Section 3. As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

* Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."

CONTRACT
WITH THE DEPARTMENT OF PUBLIC PARKS
FOR THE OCCUPATION OF THE NEW BUILDING

THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

Whereas, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

Whereas, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last-named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

Whereas, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately

upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

First.—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

Secondly.—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

Thirdly.—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building, subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

Fourthly.—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sunday, be kept open and accessible to the public, free of charge, from nine o'clock A.M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

Fifthly.—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

Sixthly.—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

Seventhly.—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

Eighthly.—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate,

and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

Ninthly.—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said parties, or their successors, anything herein contained to the contrary in anywise notwithstanding.

In witness whereof, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of
D. PORTER LORD.

JAMES F. WENMAN,
*President Department of Public Parks
of the City of New York.*

WILLIAM IRWIN,
*Secretary Department of Public Parks
of the City of New York.*

ROBERT L. STUART,
*President American Museum of
Natural History.*

SEAL
of the American
Museum of
Natural History

STATE OF NEW YORK, }
 City and County of New York, } ss.:

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,
 (73) *Notary Public N. Y. Co.*

STATE OF NEW YORK, }
 City and County of New York, } ss.:

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.]

W. C. BESSON,
 (73) *Notary Public N. Y. Co.*

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A.M., and examined.

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,
Register.

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
IN THE CITY OF NEW YORK

REVISED AND AMENDED TO FEBRUARY 7, 1916

ARTICLE I

This Corporation shall be styled THE AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee unless his name shall be presented by the Nominating Com-

mittee at a regular or special meeting of the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

ARTICLE III

The Trustees shall meet regularly, on the first Monday of every February and May, and the second Monday of November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the regular meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary, who shall be elected from among the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

The Board of Trustees shall have power to appoint a Director who, acting under the authority and control of the President, shall be the chief administrative officer of the Museum; but shall not be a member of the Board. He shall hold office during the pleasure of the Board.

ARTICLE V

SECTION 1. The President shall have the general supervision, direction and control of the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place, or in the absence of these officers, a Trustee appointed by the Executive Committee.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act. The Assistant Secretary shall be an administrative officer of the Museum and shall act under the direction of the President or the Secretary. He shall hold office during the pleasure of the Board.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each regular meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

The Board of Trustees shall have power to appoint an Assistant Treasurer, who shall perform such duties as it may direct, and who shall hold office during its pleasure.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

ARTICLE VI

The Executive Committee shall consist of nine Trustees, the President, the Secretary and the Treasurer *ex-officio* and six others, to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power generally to conduct the business of the Museum, subject to the approval of the Board. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

ARTICLE VIII

The Finance Committee shall consist of five Trustees, the Treasurer *ex-officio* and four others to be elected each year in the manner provided in Article IV. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

Three members shall constitute a quorum.

ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in

the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of the candidates for officers and Trustees to be balloted for at the said meeting.

ARTICLE X

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XI

By-Laws may be made from time to time by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XII

The incorporators of The American Museum of Natural History shall be designated as Founders of the Museum.

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$25,000 in cash, securities or property to the funds of the Museum may be elected an Associate Founder of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate foundership.

Any person contributing \$10,000 to the funds of the Museum may be elected an Associate Benefactor of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate benefactorship.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who

after being so elected shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500 to the funds of the Museum, at one time, may be elected a Fellow of the Museum, who after being so elected shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.

Any person contributing \$100 to the funds of the Museum, at one time, may be elected a Life Member of the Museum.

Any person may be elected to the above degrees who shall have given to the Museum books or specimens which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree.

Benefactors, Associate Founders, Associate Benefactors, Patrons, Fellows and Life Members shall be elected by the Board of Trustees or by the Executive Committee, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

In recognition of scientific services rendered, the Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIII

Any Trustee who shall fail to attend three consecutive regular meetings of the Board shall cease to be a Trustee, unless excused by the Board.

ARTICLE XIV

No alterations shall be made in this Constitution, unless at a regular meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alterations, embodying the amendment proposed to be made, having been given at a previous regular meeting.

BY-LAWS

REVISED AND AMENDED TO FEBRUARY 7, 1916

I

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

II

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

III

The regular meetings of the Executive Committee shall be held on the third Wednesday of each month, but special meetings may be held at any other time on a two days' call issued by order of the President, or at the request of three of its members.

IV

All bequests or legacies, not especially designated, and all membership fees, excepting Sustaining, Annual and Associate Membership fees, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

V

SECTION I. No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution.

SEC. 2. No bills shall be paid unless approved by the Director or, in his absence, the Assistant Secretary, and countersigned by one of the following named Trustees: President, Chairman of the Executive Committee, or Treasurer.

SEC. 3. The accounts of the Museum shall be under the care of a Bursar, who, on recommendation of the President and the Treasurer, shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct, and shall hold office during the pleasure of the Board. The Bursar, acting under the direction of the President or Treasurer, shall be the official representative of the Treasurer at the Museum, and as such shall be the head of the Treasurer's office there.

VI

The Board of Trustees shall have power to appoint, on recommendation of the Director, a Superintendent of Building and such other officers as may be deemed necessary, who, acting under the instruction of the Director, shall have charge of the construction, maintenance, alterations and repairs of the buildings, and shall be responsible for their sanitary condition. They shall hold office during the pleasure of the Board.

VII

The Board of Trustees shall have power to appoint a Registrar, who, acting under the instruction of the Director or Assistant Secretary, shall inspect all incoming and outgoing shipments, and shall attend to the details of matters relating to customs.

VIII

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Associate Benefactors, giving \$10,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

Patrons, giving \$1,000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, are each entitled to 1 Subscriber's Ticket and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 4 Tickets for a single admission.

Associate Members, paying \$3.00 yearly, are each entitled to 1 Subscriber's Ticket, admitting to the Members' Room, and 2 Tickets for a single admission; also to current copies of the Museum Journal and the Annual Report.

NOTE.—A Subscriber's Ticket admits to the Members' Room, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Members' Room, and are issued to Subscribers for distribution among friends and visitors.

SIXTH ANNUAL REPORT
OF THE
PENSION BOARD
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1918

OFFICERS AND MEMBERS OF THE
PENSION BOARD

1918

Chairman

FELIX M. WARBURG

Vice-Chairman

RALPH W. TOWER

Treasurer

HENRY P. DAVISON

Secretary

GEORGE N. PINDAR

TRUSTEE MEMBERS

ADRIAN ISELIN

PERCY R. PYNE

WALTER B. JAMES

FELIX M. WARBURG

EMPLOYEE MEMBERS

HARRY F. BEERS

RALPH W. TOWER

GEORGE N. PINDAR

Bursar

FREDERICK H. SMYTH

Counsel

LEWIS L. DELAFIELD

Consulting Actuary

S. HERBERT WOLFE

Medical Examiners

GEORGE M. MACKENZIE, M.D.

WALTER P. ANDERTON, M.D.

*To the President and Trustees of The American Museum of
Natural History and to the Subscribers to the Fund:*

In accordance with the Rules and Regulations, I have the honor to transmit to you herewith the Sixth Annual Report of the activities of the Pension Board and of its financial operations for the fiscal year ending December 31, 1918.

FELIX M. WARBURG,
Chairman.

February 1, 1919

With the entrance of the United States into the war, came new and extraordinary liabilities for the Pension Fund. As a result it has been found advisable during the year 1918 to guard against an extension of the membership with the consequent liabilities which such extension entails. For this reason, the Pension Fund has fewer subscribers at the end of 1918 than at the beginning of the year. The diminished membership, however, indicates no decrease in the prosperity of the Fund, which promises expansion at the usual rate with the return of pre-war conditions.

The report of membership for 1918 is as follows:

Number of Subscribers, January 1, 1918	256
New Subscribers during the year 1918	18
Reinstatements made during the year 1918	0
	<hr/>
	274
Resignations and Dismissals	22
Retirements	0
Deaths	3
	<hr/>
Number of Subscribers, December 31, 1918	249

Consistent with the good record which they established for themselves at the time of the first Liberty Loans, in 1917, the employees of the Museum have subscribed generously to the succeeding loans; 217 employees subscribed to the Third Loan (April-May), totalling \$20,150; 175 employees subscribed to the Fourth Loan (October), in an amount of \$20,900. As in the case of the previous loans, the generosity of one of the members of the Pension Board made it possible for the employees to take out their bonds on a serial payment basis. It is due to this liberal provision that the employees were enabled to contribute so largely to the Liberty Loans.

In accordance with its past policy, the Pension Board has given aid, during 1918, to such deserving employees as were in need of medical attention or hospital treatment and were themselves unable to make the necessary provision. These em-

ployees have in such cases been carefully examined and advised by Dr. Anderton, and have been given help in obtaining the needed medical or hospital treatment. Wherever possible, a choice of hospitals has been given. Seven employees have received such aid during the past year, the majority obtaining relief as a result.

The matter of securing endowed beds for the use of Museum employees was taken up again in 1918 by the Board, but it was not found possible to conclude a satisfactory arrangement.

In order to keep the Pension Fund intact, the Trustees of the Museum, at a meeting held early in 1918, agreed to reimburse the Fund for such amounts as it might be necessary to pay on account of casualties occurring among the subscribing members in the national service, to a total amount not exceeding \$5,000. As estimate showed that \$5,000 was the approximate maximum liability of the Fund on account of war losses, the provision was a guaranty of the integrity of the Pension Fund. It served also as a further evidence of the liberality and interest of the Trustees in affairs touching the welfare of Pension members and their families.

The Pension Board, having in mind the health of subscribing members of the Fund and of other employees, have suggested to the Trustees of the corporation the desirability of retaining a physician, whose duty it should be to make free periodical examinations of employees, with a view to the prevention and correction of ailments. While such an arrangement would involve considerable expense, it is anticipated that the benefits to and the increased efficiency of the employees would be an adequate return on the investment.

As a result of the greatly increased living expenses and the high wage levels prevailing in industrial occupations, some of the subscribing employees in 1918 requested leave of absence for the period of the war, with a view to earning more money. While the Museum authorities would have welcomed the opportunity of assisting these employees in any legitimate way, they felt that to permit such leave of absence would be unjust, as the members, although absent from their work in the Museum, would none the less remain liabilities against the Fund,

and with undoubtedly increased risk. This would amount to a discrimination against the greater number of subscribers. It was therefore found necessary to reject such applications for leave of absence, and to notify the members of the Fund that only military or naval service, compliance with the rulings of the Draft Board, illness, or such other reasons as the authorities should find just and proper, would constitute valid basis for leave of absence.

ACKNOWLEDGMENTS

For the use of their endowed beds in the Presbyterian Hospital, the Pension Fund is grateful to Mr. Horace F. Hutchinson and Mr. Richard B. Kelly.

For coöperation in securing free treatment at the Presbyterian Hospital for an employee in need, the Board is indebted to Mr. L. E. Belmont.

Col. S. H. Wolfe has generously extended to the Pension Board the privilege of sending employees to the number of five in one year to use his endowed bed in Mt. Sinai Hospital.

The Pension Board is grateful to Dr. Walter P. Anderton for his unremitting care and patience in the examination of members and applicants, and for his kind coöperation in securing the necessary treatment and facilities for employees in need of such assistance.

To Counsel Lewis L. Delafield the Pension Board owes thanks for advice and suggestions graciously offered during the past year.

The members of the Pension Fund are proud of their Honor Roll, to which a number of names have been added since the last Report. We have reason to be deeply thankful that, while a number of men have been wounded, only one loss of life has occurred among our men in service.

HONOR ROLL

HAROLD E. ANTHONY	GEORGE M. MACKENZIE
FELIX A. BARBARITO	DANIEL J. MCGARTY
JAMES P. CHAPIN	JOSEPH S. MCGARTY
FRANK M. CHAPMAN	BRUNO MENZER
CHARLES A. CONNOLLY*	EDWIN C. MEYENBERG
JOSEPH F. CONNOLLY	LEO E. MILLER
HENRY E. CRAMPTON	BARRINGTON MOORE
LAURENCE A. FERRI	JOHN F. O'NEILL
JOHN J. FINN	JAMES A. PROVENZALE
EDWARD J. FOYLES	THOMAS E. QUINN
CHARLES H. HARRIMAN	HENRY H. RAMSHAW
JOHN HARTE	CHARLES H. ROGERS
JAMES J. HEALY	ROBERT J. SEIBERT
PRENTICE B. HILL	OSCAR M. SHINE
THOMAS G. HULL	CARL C. SORENSEN
HENRY L. HUNDERTPFUND	LOUIS R. SULLIVAN
ALBERT J. KELLY	FRANK S. VITOLO
KAY C. LENSBJOLD	C-E. A. WINSLOW
S. HERBERT WOLFE	

* Charles A. Connolly was reported by the War Department as killed in action on July 28, 1918, at Chateau-Thierry.

Deceased Subscribers

It is with deep regret that we record the deaths of the following members during the year 1918:

GEORGE CHAMBERLAIN

George Chamberlain was born on January 21, 1879, in Cambridge, England. Entering the service of the Museum in 1909 as an attendant, his capabilities were early recognized, and he was soon transferred to the Library, in which department he labored faithfully and with competence up to the time of his last illness. Possessed of an unusually happy disposition, never failing courtesy and genial presence, his untimely death caused a deep sense of personal loss to his associates in the institution. He died on October 29, 1918, after a long and painful illness during which he displayed remarkable fortitude and cheerfulness.

CHARLES A. CONNOLLY

Charles A. Connolly was born on February 9, 1893, in New York City. In 1911, he came to the Museum and was assigned to the Custodians' Force. In 1914, he joined the famous 69th Regiment and served with his company, as sergeant, for nine months in 1917 on the Mexican border. Mustered into the Federal Service in 1918, he was among the first to be sent abroad. On July 28, during the famous drive at Chateau-Thierry, he made the supreme sacrifice for his country and for the liberty and integrity of the nations of the earth. A fitting monument to his memory will long endure in the form of a grove of fruit-trees bearing his name, which this institution

has caused to be planted where he fell. His former associates in the Museum are reminded of their loss by the golden star on the Museum's service flag. As a soldier, his courage, tactfulness and care for those under him have been heartily attested by his comrades. As a loving and considerate son, a genial companion, an efficient and conscientious worker, and above all as a thoroughly patriotic American young man, he will always be affectionately remembered.

DANIEL DOHERTY

Daniel Doherty was born on June 15, 1856, in Ireland. For about eighteen years he served this institution efficiently and faithfully. Intensely patriotic and loyal to the country of his adoption, he was equally ardent and firm in his friendships. Always welcome among groups of workers in the Museum, his unexpected death came as a distinct shock. Pleasant memories of this agreeable and trustworthy employee will always remain in the hearts of those with whom he associated. He died on June 27, 1918.

RETIREMENTS

Name	Former Position	Date Effective	Period of Service
John T. Davis.....	Carpenter....	March 1, 1917....	15 yrs.
John F. Jordan....	Attendant....	April 1, 1917....	15 yrs.

FINANCIAL STATEMENT
 OF THE
 PENSION FUND
 OF THE
 AMERICAN MUSEUM OF NATURAL HISTORY
 1918

INVESTED FUNDS

	Par Value	Book Value
Endowment Fund	\$1,258 37	\$1,140 39
Investment Fund	96,741 63	88,648 36
	\$98,000 00	\$89,788 75
Total		

STATEMENT OF INVESTED FUNDS

Par Value	Securities	Due	Rate of Int.	Interest Payable	Ann. Int.	Date Acquired	Book Value
\$5,000 00	Union Pacific Railroad Company, 1st Lien & Refunding Mortgage Bonds	2008	4%	Mar.-Sept.	\$200 00	Feb. 26, 1914	\$4,687 50
5,000 00	Chicago & Northwestern Railway Company, General Mortgage Bonds	1987	4%	May-Nov.	200 00	July 7, 1914	4,725 00
5,000 00	Pennsylvania Railroad Company, General Mortgage Bonds	1965	4½%	June-Dec.	225 00	June 4, 1915	4,887 50
5,000 00	Baltimore & Ohio Railroad Co., Refunding & General Mortgage Bonds	1995	5%	June-Dec.	250 00	Dec. 29, 1915	5,050 00
5,000 00	Chicago, Milwaukee, St. Paul Railway Company, General & Refunding Mortgage Bonds	2014	4½%	Apr.-Oct.	225 00	May 5, 1916	4,668 75
5,000 00	Atchison, Topeka & Santa Fe Railway Company, General Mortgage Bonds	1995	4%	Apr.-Oct.	200 00	May 29, 1916	4,687 50
5,000 00	Norfolk & Western Railway, First Consol. Mortgage Bonds	1996	4%	Apr.-Oct.	200 00	May 29, 1916	4,681 25
5,000 00	New York Central Railroad Co., Refunding & Improvement Bonds	2013	4½%	Apr.-Oct.	225 00	May 29, 1916	4,706 25
5,000 00	Southern Pacific Railroad Co., First Refunding Mortgage Bonds	1955	4%	Jan.-July	200 00	May 29, 1916	4,533 75
5,000 00	Northern Pacific Railway Co., Refunding & Improvement Mortgage Bonds	2047	4½%	Jan.-July	225 00	July 17, 1916	4,825 00
5,000 00	Illinois Central Railroad Co., Refunding Mortgage Bonds	1955	4%	May-Nov.	200 00	Oct. 18, 1916	4,518 75

5,000 00	Chicago, Burlington & Quincy R. R. Company, General Mortgage Bonds	1958	4%	Mar.-Sept.	200 00	Dec. 30, 1916	4,717 50	
5,000 00	Louisville & Nashville R. R. Co., Unified Mortgage Bonds	1940	4%	Jan.-July	200 00	Apr. 12, 1917	4,656 25	
6,000 00	Baltimore & Ohio R. R. Co. (Pittsburgh, L. Erie & W. Va.), Refunding Mortgage Bonds	1941	4%	May-Nov.	240 00	July 16, 1917	4,868 75	
5,000 00	Pennsylvania R. R. Co., General Mortgage Bonds	1965	4½%	June-Dec.	225 00	Oct. 19, 1917	4,668 75	
1,000 00	Atchison, Topeka & Santa Fe Ry. Co., General Mortgage Bonds	1995	4%	Apr.-Oct.	40 00	Mar. 12, 1918	821 25	
1,000 00	Norfolk & Western Ry. Co., Consolidated Bonds.	1996	4%	Apr.-Oct.	40 00	Mar. 12, 1918	831 25	
2,000 00	Union Pacific R. R. Co., 1st Lien Refunding Mort- gage Bonds	2008	4%	Mar.-Sept.	80 00	Mar. 12, 1918	1,592 50	
2,000 00	Southern Pacific R. R. Co., 1st Refunding Mort- gage Bonds	1955	4%	Jan.-July	80 00	Mar. 12, 1918	1,582 50	
5,000 00	Great Northern Ry. Co., 1st Refunding Mortgage Bonds	1961	4¼%	Jan.-July	212 50	May 10, 1918	4,456 25	
4,000 00	Atchison, Topeka & Santa Fe Ry. Co., General Mortgage Bonds	1995	4%	Apr.-Oct.	160 00	Aug. 19, 1918	3,250 00	
2,000 00	Chicago, Burlington & Quincy Ry. Co., General Mortgage Bonds	1958	4%	Mar.-Sept.	80 00	Aug. 20, 1918	1,602 50	
5,000 00	United States of America Third Liberty Loan Bonds	1928	4¼%	Mar.-Sept.	212 50	Nov. 30, 1918	4,890 00	
<hr/>								
\$98,000 00					\$4,120 00		\$89,788 75	

PENSION FUND ACCOUNT

RECEIPTS

1918

CASH ON HAND JANUARY 1, 1918	\$7,656 79
CONTRIBUTIONS OF SUBSCRIBING EMPLOYEES:	
Deductions of 3% from Payrolls of	
City Maintenance Account	\$4,503 21
General Account	1,568 31
Special Funds Account	69 08
Corporate Stock Account	303 19
Incidental Account	7 63
Morris K. Jesup Fund Account...	3,482 70
	\$9,934 12
Personal Contributions of Subscribing	
Employees	765 66
	\$10,699 78
CONTRIBUTIONS OF BOARD OF TRUSTEES:	
To Equal Contributions of Subscribing Employees	10,702 83
SPECIAL CONTRIBUTIONS OF TRUSTEES FOR PAYMENT OF	
DEATH GRATUITIES	250 84
INTEREST ON INVESTMENT FUND	3,468 12
INTEREST ON ENDOWMENT FUND	50 34
INTEREST ON CREDIT BALANCES	211 10
BURSAR'S ACCOUNT	500 00
	\$33,539 80

Examined	{	ADRIAN ISELIN	}	<i>Auditing</i>
and Approved	{	PERCY R. PYNE	}	<i>Committee</i>

PENSION FUND ACCOUNT

DISBURSEMENTS

1918

RETURN OF CONTRIBUTIONS	\$1,497 28	
INTEREST ON CONTRIBUTIONS	69 45	
		<u>\$1,566 73</u>
SERVICE PENSIONS	\$516 00	
DEATH GRATUITIES PAID UNDER SECTION 13	1,058 23	
		<u>1,574 23</u>
PURCHASE OF SECURITIES:		
Investment Fund		19,064 62
EXPENSES		46 43
LOAN ACCOUNT		500 00
CASH ON HAND DECEMBER 31, 1918:		
Deposited with the United States Trust		
Company of New York	\$10,287 79	
Deposited with Colonial Bank (Bursar's		
Account)	500 00	
		<u>10,787 79</u>

\$33,539 80

E. & O. E.

NEW YORK, *December 31, 1918*

H. P. DAVISON, *Treasurer*

PENSION FUND—SPECIAL FUNDS ACCOUNT

RECEIPTS

1918

SPECIAL CONTRIBUTIONS No. 2:			
Cash on Hand January 1, 1918		\$20 00	
CONTRIBUTIONS:			
Anonymous	\$3 84		
Adrian Iselin	48 00		
	51 84		
INTEREST ON CREDIT BALANCES		12 16	
	51 84		\$84 00
LIBERTY LOAN ACCOUNTS:			
Interest on Credit Balances			81 23
AMERICAN MUSEUM LIBERTY LOAN No. 1:			
Cash on Hand January 1, 1918		\$5 20	
Subscribers' Payments:			
Personal	\$699 16		
Deducted from Salaries	4,633 89		
	5,333 05		
INTEREST ON UNPAID BALANCES:			
Personal Payments	\$8 14		
Deducted from Salaries	101 00		
	109 14		
			5,447 39
AMERICAN MUSEUM LIBERTY LOAN No. 2:			
Cash on Hand January 1, 1918.....		\$719 56	
Subscribers' Payments:			
Personal	\$1,116 40		
Deducted from Salaries	3,288 00		
	4,404 40		
INTEREST ON UNPAID BALANCES:			
Personal Payments	\$5 61		
Deducted from Salaries	110 87		
	116 48		
			5,240 44
AMERICAN MUSEUM LIBERTY LOAN No. 3:			
Subscribers' Payments:			
Personal	\$9,984 81		
Deducted from Salaries	5,407 25		
	\$15,392 06		
Carried forward	\$15,392 06		\$10,853 06

PENSION FUND—SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1918

SPECIAL CONTRIBUTIONS No. 2:

Payments for Relief \$84 00

AMERICAN MUSEUM LIBERTY LOAN No. 1:

Purchase of Bonds:

Loan Account \$5,345 55

Interest on Loans 127 75

5,473 30

AMERICAN MUSEUM LIBERTY LOAN No. 2:

Purchase of Bonds:

Loan Account \$5,104 00

Interest on Loans 136 71

5,240 71

AMERICAN MUSEUM LIBERTY LOAN No. 3:

Purchase of Bonds \$20,150 00

Loan Account 7,759 56

Interest on Loans 219 65

28,129 21

Carried forward \$38,927 22

PENSION FUND—SPECIAL FUNDS ACCOUNT

RECEIPTS (*continued*)

1918

Brought forward	\$15,392 06	\$10,853 06
INTEREST ON UNPAID BALANCES:		
Personal Payments	\$15 68	
Deducted from Salaries	189 48	
	205 16	
LOAN ACCOUNT	12,700 00	
	28,297 22	
AMERICAN MUSEUM LIBERTY LOAN No. 4:		
Subscribers' Payments:		
Personal	\$8,866 47	
Deducted from Salaries	2,049 38	
	\$10,915 85	
INTEREST ON UNPAID BALANCES:		
Personal Payments	\$3 70	
Deducted from Salaries	65 32	
	69 02	
LOAN ACCOUNT	12,300 00	
	23,284 87	

\$62,435 15

Examined { ADRIAN ISELIN } *Auditing*
and Approved { PERCY R. PYNE } *Committee*

PENSION FUND—SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1918

Brought forward	\$38,927 22
AMERICAN MUSEUM LIBERTY LOAN No. 4:	
Purchase of Bonds	\$20,900 00
Loan Account	2,075 62
Interest on Loans	71 97
	<hr/>
	23,047 59
CASH ON HAND DECEMBER 31, 1918, DEPOSITED WITH THE UNITED STATES TRUST COMPANY OF NEW YORK	<hr/>
	460 34

\$62,435 15

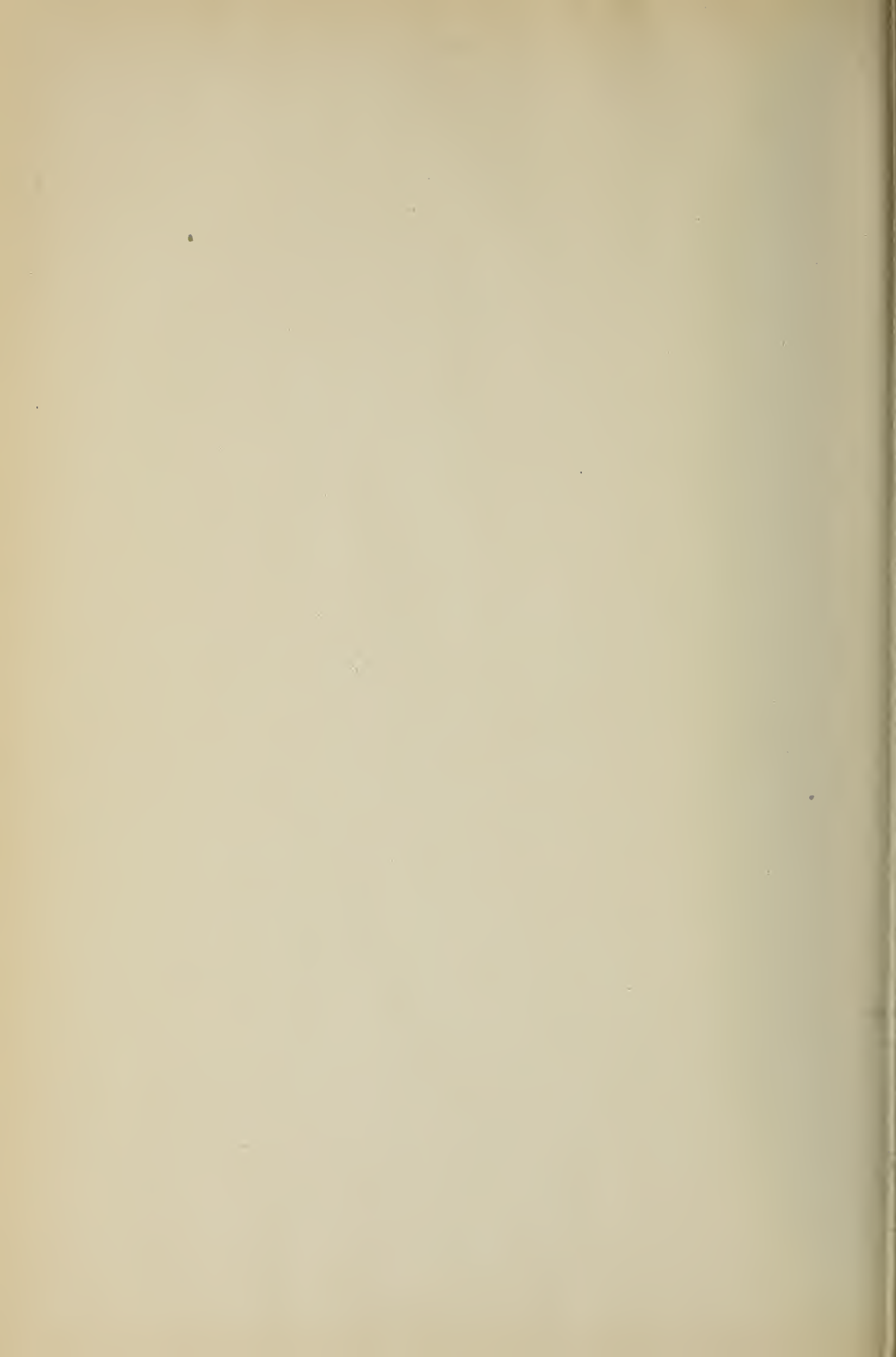
E. & O. E.
NEW YORK, *December 31, 1918*

H. P. DAVISON, *Treasurer*



From the Charter of 1869

“For the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.”







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