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FORTY-SIXTH ANNUAL REPORT
OF THE
TRUSTEES
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

61
FOR THE YEAR 1914

A FREE INSTITUTION
FOR THE PEOPLE
FOR EDUCATION
FOR SCIENCE



MEARNS
COLLECTION

NEW YORK
ISSUED FEBRUARY 1, 1915

THE AMERICAN MUSEUM OF
NATURAL HISTORY

INCORPORATED IN 1869



MEMBERSHIP AND ENDOWMENT

There are nearly thirty-seven 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.

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

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 this fund.

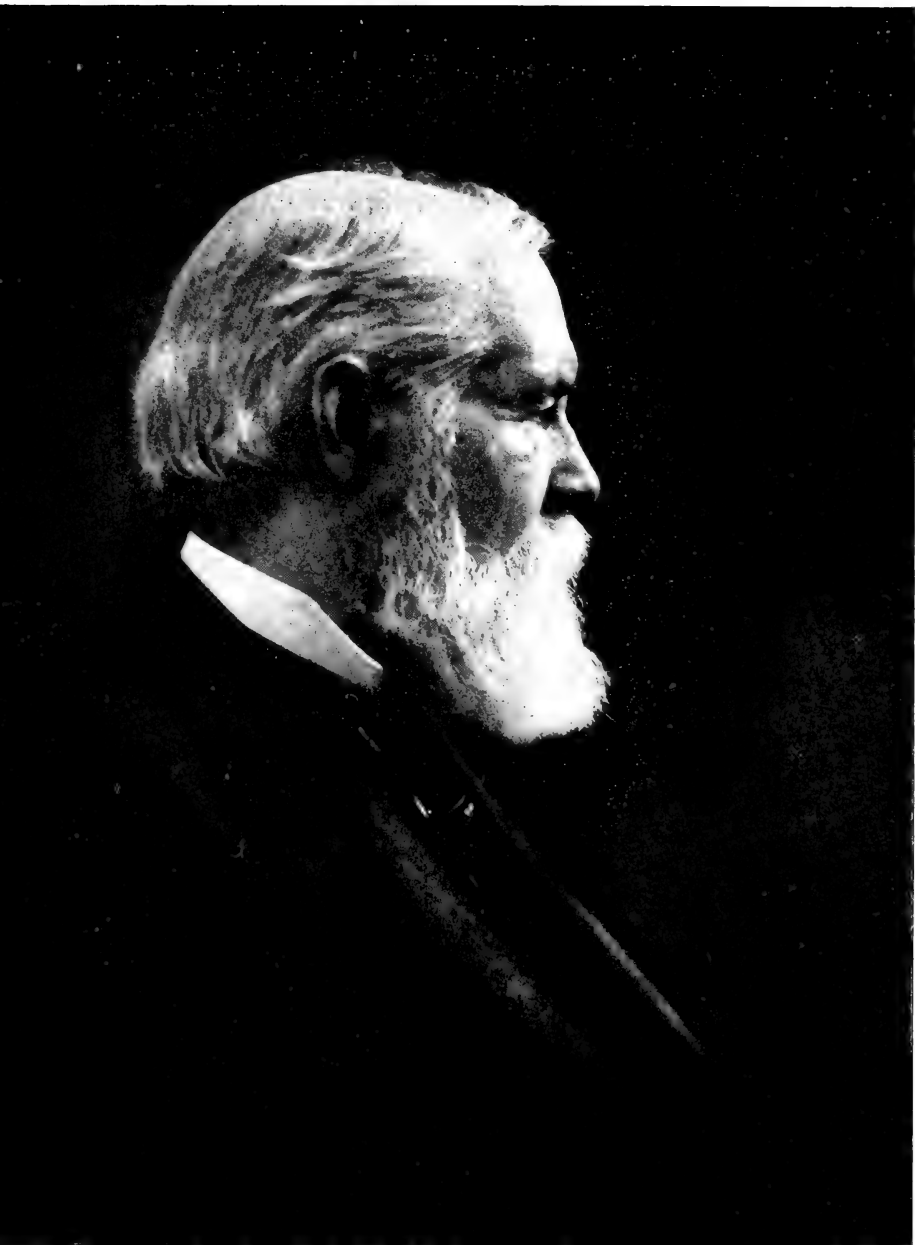
FORM OF GIFT OR BEQUEST

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



IRVING PRESS

119 and 121 East Thirty-first Street
New York



ALBERT SMITH BICKMORE
1839-1914

Originator of the Plan of the American Museum in 1868
Trustee 1885-1914

FORTY-SIXTH ANNUAL REPORT
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1914

Annual Report of the President
Treasurer's Report List of Accessions
Act of Incorporation
Contract with the Department of Parks
Constitution By-Laws and List of Members



NEW YORK

ISSUED FEBRUARY 1, 1915



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FOR 1915

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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 1915

DIRECTOR

FREDERIC A. LUCAS, Sc.D.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

EDMUND OTIS HOVEY, Ph.D., Curator

CHESTER A. REEDS, Ph.D., Assistant Curator

DEPARTMENT OF MINERALOGY

L. P. GRATACAP, A.M., Curator

GEORGE F. KUNZ, Ph.D., Honorary Curator of Gems

DEPARTMENT OF WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, B.S., Curator

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

HENRY E. CRAMPTON, Ph.D., Curator

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

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

L. P. GRATACAP, A.M., Curator of Mollusca

A. J. MUTCHLER, Assistant

FRANK E. WATSON, B.S., Assistant

WILLIAM MORTON WHEELER, Ph.D., Honorary Curator of Social Insects

AARON L. TREADWELL, Ph.D., Honorary Curator of Annulata

CHARLES W. LENG, B.S., Honorary Curator of Coleoptera

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

BASHFORD DEAN, Ph.D., Curator Emeritus

LOUIS HUSSAKOF, Ph.D., Curator of Ichthyology

JOHN T. NICHOLS, A.B., Assistant Curator of Recent Fishes

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

SCIENTIFIC STAFF FOR 1915—*Continued*

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

J. A. ALLEN, Ph.D., Curator
FRANK M. CHAPMAN, Sc.D., Curator of Ornithology
ROY C. ANDREWS, A.M., Assistant Curator of Mammalogy
W. DeW. MILLER, Assistant Curator of Ornithology
H. E. ANTHONY, Assistant in Mammalogy

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

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

DEPARTMENT OF ANTHROPOLOGY

CLARK WISSLER, Ph.D., Curator
PLINY E. GODDARD, Ph.D., Curator of Ethnology
ROBERT H. LOWIE, Ph.D., Associate Curator
HERBERT J. SPINDEN, Ph.D., Assistant Curator
NELS C. NELSON, M.L., Assistant Curator
CHARLES W. MEAD, Assistant Curator
ALANSON SKINNER, Assistant Curator

HARLAN I. SMITH, Honorary Curator of Archæology

DEPARTMENT OF ANATOMY AND PHYSIOLOGY

RALPH W. TOWER, Ph.D., Curator

DEPARTMENT OF PUBLIC HEALTH

CHARLES-EDWARD AMORY WINSLOW, M.S., Curator
ISRAEL J. KLIGLER, B.S., Assistant

DEPARTMENT OF PUBLIC EDUCATION

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

DEPARTMENT OF BOOKS AND PUBLICATIONS

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

FORTY-SIXTH 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:

The President has the honor to submit herewith his eighth annual report, setting forth the development of the Museum during the year 1914, and including the special reports of the Director and of the Officers of the various scientific departments of the Museum and of the Board of Trustees.

It is with a deep sense of loss that we record the death on August 12, 1914, of Albert Smith Bickmore, a member of the Board of Trustees since 1885. Professor Bickmore was so intimately identified with the origin and early development of the American Museum, beginning with the movement during the year 1868, that to him, above all others, rightly belongs the title of "Father of the Museum." Inspired by his great teacher, Louis Agassiz, it was his optimism and enthusiasm which, through the leadership of Theodore Roosevelt, brought together the notable group of men who founded the Museum. After many years devoted to the raising of funds, to organization and to administration, he instituted the Department of Public Education, to which he applied his chief energies until his retirement in 1904. In 1911 Professor Bickmore jointly with Mrs. Bickmore presented his entire scientific library and unique collection of lantern slides. His name will ever be cherished and honored.

The Museum lost a great benefactor and a devoted friend in the death of Mrs. Morris K. Jesup on June 17, 1914. After the decease of her husband in the year 1908, Mrs. Jesup's interest in the Museum deepened, and she witnessed with great pride and pleasure the carrying out of many lines of development which had been instituted by Mr. Jesup. Her princely bequest of the Morris K. Jesup Fund of \$5,000,000 is the

largest single gift which has ever been made to the cause of scientific education in the City of New York and will be a source of immeasurable benefit to the people for all time. The wise restriction which surrounded Mr. Jesup's original bequest of \$1,000,000 also obtains in this, that no part of the interest shall be used for maintenance or for building, but that the entire income shall be devoted to the development of the scientific and educational work of the institution, while the responsibility for the maintenance and construction of the Museum shall continue to rest upon the people of the City of New York according to the original purpose of its foundation.

ENDOWMENT AND BEQUESTS

The terms of the bequest of the Jesup Endowment Fund and of the codicil to the will are as follows:

“To the American Museum of Natural History of the City of New York [I give and bequeath] Four million dollars (\$4,000,000) as a permanent fund to be known as the ‘Morris K. Jesup Fund,’ the income, and only the income, to be used in the purchase of specimens and collections and the expenses incident to and incurred in assisting scientific research and investigation and publication regarding the same which the Trustees of the Museum shall regard as in its interest;

As I have in the Eighth Article in my said Will given and bequeathed to the American Museum of Natural History the sum of Four million dollars (\$4,000,000), I hereby give and bequeath unto said Institution the further sum of One million dollars (\$1,000,000) making the total of such bequests Five million dollars (\$5,000,000), to be received and held, however, in the manner and subject to each and every provision and stipulation in the said Eighth Article of my said Will set forth and contained concerning said primary bequest.”

Some time will elapse before the Museum will receive the benefit of the Jesup Endowment and of other new funds, nor can these benefits be realized in full measure without the

coöperation of the people of the City of New York in the building and equipment of the Museum.

The magnitude of the Jesup Fund should not overshadow the importance of further donations and bequests, for the reason that when the plans for the extension of the building, adopted by the Trustees in 1911, have been executed, the Museum will require an increase both in its endowment and in its maintenance. By that time New York will have become by far the largest city in the world. All additions to the Museum's resources are welcome, and often a relatively small bequest, designated for a specific purpose, will provide the necessary means for the development of some particular phase of the Museum's educational work which otherwise would have to be deferred. For instance, the Jonathan Thorne Memorial Fund of \$25,000 has been the means of giving the Museum the advanced position that it now holds in providing instruction for the blind.

It is gratifying to report that through the will of Miss Dessie Greer, an Annual Member of the Museum, who died on **Greer Bequest** January 3, 1913, the Museum is designated as the beneficiary of a fund of \$90,000 which is being held in trust during the lifetime of Miss Theresa Trimper.

The Museum is also designated as one of the beneficiaries of the residuary estate of the late Morris Loeb, appraised at **Loeb Bequest** \$989,857, subject to a life interest of Doctor Loeb's widow. It is estimated that the Museum's share of this fund will be \$36,946. The Museum is also a contingent beneficiary of a special fund of \$25,000 to be used for the establishment or maintenance of a chemical type museum.

The Permanent Endowment has been further increased by \$4,956.72, from the estate of Frederika Gade, in payment of her bequest. This sum will be added to the general endowment.

Through the will of Mary Anna Palmer Draper, the Museum **Draper Bequest** is given the privilege of selecting such specimens of her collection of mounted heads and horns as it may desire.

BUILDING AND EQUIPMENT

There has been no provision for the extension of the building since 1905, excepting the excavation for the Southeast Wing and Court Building, whereas in the meantime the Trustees and Members of the institution have expended \$1,300,000 in the development of the collections and \$500,000 toward the maintenance of the Museum. The exhibition halls are already overcrowded; superb collections which have cost great sums of money are now in storage cases, invisible to the public and difficult of access even to students. The illumination of the exhibition halls is so defective as to cause the constant and well-merited complaint of visitors. At least one very large collection has been offered to the Museum, the acceptance of which cannot even be considered for want of space. The matter of *building* and also of *equipment*, that is, the casing and exhibition of collections, has now reached a very critical point. It must soon appear whether this is to remain a Museum of the people, built and maintained by the people in the spirit of the original Contract of 1878 with the City, or whether it is to develop as a Museum on private foundation chiefly.

This year the municipal appropriation for maintenance falls short to the extent of \$95,000 of the amount required and the entire income of the Museum from its Endowment (with the exception of the restricted income from the Jesup Fund) and personal contributions of \$46,000 from the Trustees have been necessary to maintain the Museum.

It is not optional with the City to maintain the institution, but morally and legally obligatory, for the language in various chapters of the Laws of the State and the spirit and intention of the Contract are very definite, as the following citations show:

Chapter 290 of the laws of 1871 authorizes the Board of Commissioners of the Department of Public Parks "to construct, erect and maintain in * * * Manhattan Square * * * a suitable fireproof building for the purpose of establishing and maintaining therein * * * a Museum of Natural History, by the American Museum of Natural History, * * *"

Chapter 351 of the laws of 1875 *directs* the Board of Commissioners of the Department of Public Parks "to establish and equip the building now erected * * * in Manhattan Square, under the provisions of section two, chapter two hundred and ninety of the laws of eighteen hundred and seventy-

one, in a suitable manner, for the purposes of a Museum of Natural History, as specified in said section and chapter."

Chapter 139 of the laws of 1876 *directs* the Board of Commissioners of the Department of Public Parks "to make and enter into a contract with the American Museum of Natural History for the occupation by it of the buildings erected or to be erected * * * in Manhattan Square, in accordance with the second section of chapter two hundred and ninety of the laws of eighteen hundred and seventy-one, and chapter three hundred and fifty-one of the laws of eighteen hundred and seventy-five, and transferring thereto and establishing and maintaining therein, its museum, library, and collections, and carrying out the objects and purposes of the said society."

In accordance with the provisions of this law, in 1878 the Trustees entered into the present contract for the establishment and maintenance of the American Museum of Natural History.

By paragraph 622 of the amended Charter (1901), the Commissioner of the Boroughs of Manhattan and Richmond is *directed* to continue the contract with the American Museum of Natural History.

Paragraph 230 of the amended Charter makes it obligatory for the Board of Estimate to appropriate annually, "the amount necessary for the maintenance of the buildings, instruments and equipments of * * * the American Museum of Natural History, not exceeding one hundred and thirty-five thousand dollars."

Paragraph 613 of the amended Charter also provides that "it shall be the duty of the Commissioner for the Boroughs of Manhattan and Richmond to maintain * * * the Museum of Natural History * * * and to provide the necessary instruments, furniture and equipments for the * * * buildings * * *, and, with the authority of the Board of Aldermen, to develop and improve the same, and to erect additional buildings; but the maintenance of all such buildings * * * shall be subject to the provisions of the acts incorporating said institution * * *; and shall also be subject to and in conformity with such contracts and agreements as have heretofore been made with such institution, * * * and are in force and effect when this act takes effect, * * *"

Thus from the amended Charter, \$135,000 is the maximum maintenance appropriation allowed. Chapter 246 of the laws of 1902 provides an additional \$25,000 for maintenance, and Chapter 292 of the laws of 1905 authorizes an additional \$40,000 for maintenance. This makes the total sum of \$200,000 which the City is now appropriating for maintenance, but which is insufficient to meet the actual cost of maintenance.

The substance of the foregoing statement and abstracts has been communicated in a letter addressed to Honorable Cabot Ward, Commissioner of Parks. It constitutes by far the most important matter now before the Municipal Authorities and the Trustees of this institution.

In order to amend the matter of maintenance, we are proposing to submit a draft of a law removing the limitations of the amount that the City may appropriate for this purpose, and, on the principle of "Home Rule," are leaving the sum to the discretion of the Mayor and of the Board of Estimate and Apportionment. The matter of this amendment of the appropriation law arose in connection with the recommendation of the Board of Education that the extension of the educational

advantages of the Museum to the public schools of the City should receive special municipal support.

The matter of equipment, in the casing and exhibition of collections on which upwards of a million dollars have been expended, is equally in abeyance, and the development of the present exhibition halls can be carried forward only in a very limited way during the coming year through funds provided by the Trustees, in addition to their contributions to maintenance.

Equipment

The impression probably prevails that the people of the City of New York have been extravagant in their expenditures for these public educational institutions.

Comparative Municipal Expenditures

Quite the reverse is the case. Striking comparison may be made with the City of Milwaukee which expends 22c. *per capita* on its city owned and city managed Public Museum and Library, whereas, according to figures verified by our Bureau of Municipal Research, in 1910 the people of the City of New York contributed only 17c. *per capita* to their eight institutions of Natural History, Art, Zoölogical Park, Aquarium, Botanical Garden, Central Park Menagerie, Brooklyn Institute and Staten Island Museum.

According to the census of 1910, the City of Pittsburgh leads in its municipal expenditure *per capita* of 73c.; the City of Boston follows with a *per capita* expenditure of 57c.; Cleveland, 51c.; Buffalo with 38c.; Minneapolis with 37c. The cities of Cincinnati and New York each spend 36c. *per capita* for their great public educational institutions, including, in the case of New York, the Public Library.

In fact, no city in the world has public institutions in which so much has been accomplished at so little cost to the municipality and to the people *per capita*, and this because so much has been done through the constant inflow of gifts and contributions from citizens. The suggestion may be made, "Why not include building and maintenance also within the scope of these great gifts?" Such a step should be deprecated because it would at once take from the people their sense of participation and pride which all may now feel in the public educational system of our city.

GENERAL PROGRESS

The chief internal work of the year 1914, under Director Lucas, has been the refinement in decoration, methods of exhibition and labeling in many of the large exhibition halls, especially the Peruvian Hall, the Indians of the Southwest, the Indians of the Woodlands, the Forestry and Darwin Halls. The additions to the collections, while less spectacular than in some previous years, reveal a normal growth and represent very careful selection. Exploration and publication, the two indices of the research activity of the Museum, compare favorably with any previous year, while the progress of the educational work is reflected both in the improvement and labeling of the exhibits, and in the broad plans developed for Museum extension to the public schools.

The rapid extension of our system of public education affords the best evidence of the fact that in administering the institution the Trustees are guided rather by the spirit than the letter of the Contract with the City. With this number of the Report is issued a special map showing the extent to which the Museum coöperated with the public schools in the year 1914. The circulation of the nature study collections to 451 of the public schools, the giving of special lectures to school children, to supplement their class-room work in geography, history and natural science, and the provision for instruction to the blind are all educational features of the Museum's work which are not specified in our Contract with the City and which have been carried on for the past ten years without specific appropriations by either the City or State.

In order to reach certain densely populated portions of the city where the people are without the means of sending their children to the Museum, a plan was formulated by Curator Sherwood for the further extension of our public school work. The plan included three features: first, the establishment of a series of Local Lecture

**Public
Education****Proposed Museum
Extension to the
Public Schools**

Centers, to provide lectures in various branches of natural science for children who cannot afford to visit the Museum; second, the inauguration of a System of Loaning Lantern Slides to enable teachers to give visual instruction in their own class rooms; third, the opening of a Branch Teaching Museum in the Washington Irving High School, as an experiment to be carried out in other schools as soon as the means would warrant. These plans were authorized by the Trustees, provided they could be carried out without further expense to the institution. Pursuant to the resolution of the Board, the President appointed a Committee, consisting of Messrs. Felix M. Warburg and R. Fulton Cutting as Trustee members, and Messrs. George H. Sherwood and Charles-Edward Amory Winslow as Faculty members, to consider the details of the plan and the methods of carrying it out. The President laid the matter before President Thomas W. Churchill of the Board of Education, who became deeply interested and appointed a special Committee consisting of Mr. Frank D. Wilsey, Dr. Ira S. Wile and Mr. Francis P. Cunnion, to consider the proposal and confer with the Committee of the American Museum. Finally, the Museum made a definite proposition to the Board of Education to establish, for the sum of \$8,000, ten Local Lecture Centers (shown on the educational extension map), to inaugurate a System of Loaning Lantern Slides and to establish a Branch Museum in the Washington Irving High School. This proposition was recommended by the Board of Education to the Board of Estimate, and when the budget was finally acted upon, provision was made for one feature of the proposal, namely, the Loaning of Lantern Slides to the teachers. It was not deemed permissible to provide an additional sum under the law restricting the amount provided for maintenance. Consequently a new law is being formulated which will give the Mayor and the Board of Estimate and Apportionment the authority to vote such additional sum to the Museum as they may deem expedient, particularly for purposes of extension of public education to the schools. A more complete account of the history and present status of Museum instruction and the proposed extension to the schools of Greater New York in

the years 1914 and 1915 was prepared by Curator Sherwood and published by the Trustees in June.*

In spite of the financial stress of the present time, the gifts of Trustees and other friends of the Museum have been very generous. The Trustees have themselves contributed nearly \$63,000, more than two-thirds of which has been devoted to the maintenance of the Museum, owing to the insufficiency of the City's appropriation. Among the noteworthy gifts should be mentioned the Collection of Pottery and Textiles from Nazca, Peru, presented by Mr. A. D. Juilliard; the Copper Queen Mine Model, the gift of Dr. James Douglas; the Howell Collection of Meteorites, presented by Mr. J. P. Morgan.

Besides these gifts, considerable exploration work was made possible through the generosity of individual Trustees. Mr. Archer M. Huntington again supported the work among the Primitive Peoples of the Southwest. Mr. Felix M. Warburg and Dr. Walter B. James provided for the continuance of the work of the Department of Public Health. Contributions from Colonel Theodore Roosevelt and Mr. Cleveland H. Dodge made it possible to continue the collecting of birds and mammals in South America. Mr. Cleveland H. Dodge, Mr. J. P. Morgan and Mr. Arthur Curtiss James have subscribed towards the preparation of the African collections.

The Museum has also received a number of valuable zoölogical specimens from the New York Zoölogical Park and the Aquarium, the gift of the New York Zoölogical Society, and from the Central Park Menagerie, the gift of the Department of Parks.

The Museum is indebted to the Pennsylvania Railroad Co. and to the Norfolk and Western Railway Co. for the granting of free transportation of the geological collections from Weyer's Cave, Va. The Pennsylvania Railroad Co. also allowed the Museum free transportation of the Albertan fossils. We also wish to ex-

* See Misc. Publications, A. M. N. H., No. 5, 1914.

press our appreciation of the generosity of the Panama Rail Road Co. in granting reduced rates to Museum agents, in connection with the South American and Central American explorations, and for carrying our field supplies free of charge. The Erie Railroad Co., the Chicago, Burlington and Quincy Railroad Co. and the Great Northern Railway Co. generously granted our request for free transportation of the fossil collections from Alberta, but unfortunately through some misunderstanding the collections finally reached the Museum over other lines, and we were therefore unable to take advantage of this kind offer. The transportation of collections from the field in recent years has involved considerable financial outlay by the Museum, and this generosity on the part of the railroad companies has been of material assistance in extending the explorations of the Museum.

EXPLORATION IN 1914

It was not practicable to make the usual large allotments for exploration in the general budget, and this important branch of the Museum's activity would have been at a standstill had it not been for the original Jesup Fund and the personal generosity of several of the Trustees. As it was, there were not fewer than 29 field parties or agents actively engaged in the interests of the Museum. Three of the great continents are represented in the field of operations through the year. In North America there were twenty-three expeditions including one in the Arctic; in South America there were three expeditions, and in Africa, three.

Of these, the South American expeditions are first in interest and importance, owing to the completion of the Panama Canal and the rapid extension of all our relations with our neighbors to the south. It is a remarkable fact that the natural history of South America in many respects is less known than that of any other continent, and until recent years North American naturalists have left this field of exploration largely to the British and the Germans. Now most of the large museums of America are actively engaged in South American

J. E. Miller Biological Survey
in Antioquia, Colombia



Collins-Day Zoological
reconnaissance in Bolivia
and on the Amazon

J. E. Miller Biological Survey
of Southern Bolivia

THE AMERICAN MUSEUM'S ZOÖLOGICAL EXPEDITIONS IN SOUTH AMERICA, 1915

Relief map reproduced from Frye's Complete Geography
by the courtesy of Ginn and Company, publishers



THE AMERICAN MUSEUM'S ZOÖLOGICAL EXPLORATIONS IN SOUTH AMERICA, 1885-1914

Relief map reproduced from Frye's Complete Geography
 by the courtesy of Ginn & Company, publishers

exploration, always with results of supreme interest in both archæology and natural history.

SOUTH AMERICA

Some three years ago the Museum began to devote especial attention to this continent and has since been carrying on intensive field operations, chiefly under the direction of Curator Chapman. The accompanying map will show the extent of our previous operations and the plans proposed for the future. The progress of the work in 1914 has been especially important, due in part to the great personal interest which Colonel Theodore Roosevelt has taken in it.

When Colonel Roosevelt was planning his recent expedition to South America, he generously offered to take with him two representatives of the Museum, to assist in making the zoölogical collections, and upon the return of the expedition to present the specimens collected to the American Museum. **Roosevelt South American Expeditions** Mr. Leo E. Miller and Mr. George K. Cherrie were assigned by the Museum to this work, the former to devote himself to mammals and the latter to birds. The entire expense of the expedition was borne by Colonel Roosevelt, with the exception of the salaries of Messrs. Miller and Cherrie, which were provided for by Mr. Cleveland H. Dodge. As a result of this expedition through Paraguay and the wilderness of Brazil, more than 450 mammals and 1,375 bird specimens were added to the Museum collections. Colonel Roosevelt was so impressed with the importance of the investigations that Curator Chapman was making and with the ability of Messrs. Miller and Cherrie to carry on this field work that upon his return he personally gave \$2,000 towards meeting the expense of expeditions that would continue these naturalists in the field. As a result, the Museum has recently sent Mr. Miller, accompanied by Mr. Howarth S. Boyle, to Colombia and Bolivia to conclude the ornithological work of this region; later they will go to eastern Panama. It is expected that Mr. Cherrie will be sent to the marshes of Paraguay to continue the work of the first Roosevelt expedition.

Similarly, for the survey of another region, Mr. Adam M. Collins and Mr. Lee Garnett Day have organized an expedition which will start from the west coast and cross South America through Bolivia and down the Amazon. They generously offered to take with them at their own expense a representative of the Museum and to present to the institution half of the zoological material which they might secure. Mr. Cherrie was assigned to this work, and the expedition left New York in the latter part of December.

**Collins-Day
Expedition to
South America**

In the meantime, Mr. Rollo H. Beck has continued his extended voyage along the coast of South America in the interests of the Brewster-Sanford Collection and has secured a series of shore and marine birds which adds richly to this important collection now on deposit in the Museum.

**Brewster-Sanford
Expedition**

NORTH AMERICA

It was imperative that the Museum complete its excavating along the Red Deer River in Alberta, and for four months during the summer Mr. Barnum Brown and his assistants continued the collecting of fossils in this region. The results surpassed expectations. Mr. Brown secured more than a carload of specimens, including eight complete skeletons of Cretaceous dinosaurs.

Similarly, Mr. Albert Thomson returned to the fossil beds of Nebraska and secured several fine skeletons of the "Clawed Ungulate" *Moropus*.

In connection with the plan to complete the researches on the cultures and ceremonies of the Indians of the Northern Plains, Curator Wissler, Associate Curator Lowie, Assistant Curator Skinner and Reverend Gilbert L. Wilson continued their studies of Indians in Oklahoma, North and South Dakota and Montana. Associate Curator Lowie began work with the Ute Indians of Nevada.

**Ethnology of the
Plains Indians**

Under the patronage of Mr. Archer M. Huntington, Curator Goddard and Assistant Curator Nelson continued their investigation of the Indians of New Mexico and Arizona, while Dr. Spinden was assigned to make archæological investigations in Guatemala and San Salvador.

Curator Wissler has organized an archæological survey of various localities in New Jersey and Pennsylvania, which is bringing to light important and interesting data concerning the early man of this region.

Our most important zoölogical expedition in North America is the biological survey of Porto Rico, undertaken in coöperation with the New York Academy of Sciences. Messrs. Crampton, Lutz, Miner, Watson and Nichols have been engaged in this work. Supplementing this survey, entomological collecting was done in Florida by Messrs. Watson and Mutchler.

Curator Chapman, accompanied by Mr. Louis Agassiz Fuertes as artist, visited Heron Lake in Minnesota and secured material for a habitat group of this region.

The Honorable George Shiras, 3d, a Life Member of the Museum, conducted an expedition to Panama for the purpose of securing the mammals of the Gatun Lake region. Upon his invitation, he was accompanied by Mr. H. E. Anthony, and all the specimens collected were presented to the Museum by Mr. Shiras, who also bore all the expenses of the expedition.

The other field expeditions in North America include the geological survey of the Arbuckle Mountains in Oklahoma by Dr. Reeds, who began this work some years ago for the Geological Survey of Oklahoma, and the expedition to Florida, conducted by Curator Hussakof and Mr. Russell J. Coles, to secure material for casts of the *Manta* or devilfish. Later Dr. Hussakof visited fossil beds

near Cleveland, Ohio, from which he obtained a number of interesting and important specimens of fossil fishes.

Eastern Panama is zoölogically one of the least known regions of North and South America, and data on its fauna will have an important bearing on the problems of animal distribution. Through the Jesup Fund the Museum has been able to send Mr. William B. Richardson, a collector of more than twenty years' experience in the tropics, to this difficult region, and later Mr. Anthony and Mr. Ball of the Museum's staff will join him to continue this important work.

With the approval of Mr. and Mrs. Paul J. Sachs, the donors of the Angelo Heilprin Exploring Fund, the Executive Committee voted to devote this sum in 1914 to exploration work in the West Indies under the direction of Curator Hovey.

Owing to circumstances, Curator Hovey was not in a position to take up this work in 1914, but it was felt that it was so desirable to apply this fund to this purpose that no other expenditure of it was authorized, since Dr. Hovey is now planning to visit the West Indies early in 1915. This will enable him to continue his studies on the West Indian volcanoes, a subject in which the late Angelo Heilprin was especially interested.

AFRICA

First in importance is the Museum's expedition to the Congo, now in its sixth year, under the direction of Messrs. Herbert Lang and James Chapin. The active field work of the expedition was completed nearly two years ago, and the intervening time has been devoted to the problems of transportation from the interior. Through recent reports from Mr. Lang, we learn that all the collections, which weigh forty-five tons, have safely reached Stanleyville, are in excellent condition and that a portion of them have already been shipped to Boma where Mr. Chapin is awaiting steamship transportation to

New York. It is expected that the entire expedition will reach New York early in the year 1915. The collection of Messrs. Lang and Chapin is undoubtedly one of the finest ever made in this part of Africa, and the problem of its proper care upon arrival is a very serious one.

The Museum is fortunate in enjoying the continued interest of Mr. Paul J. Rainey, who has presented several specimens of big game animals from British East Africa. Mr. Rainey has also presented to the Museum a complete set of the series of motion picture film negatives of his recent African hunt.

The traverse of Africa by the Barnes-Kearton Expedition, under the auspices of the Museum, from the east coast to the west, resulted in the collection of another superb series of photographs, representing the human and animal life, the type series of which has been presented to the Museum by Mr. James Barnes.

ARCTIC

Owing to difficulties of communication, we do not know the final results of the Crocker Land Expedition, organized by the American Museum of Natural History, the American Geographical Society and the University of Illinois. No report has been received from the leader, Mr. D. B. MacMillan, since his hazardous journey over the Arctic Ocean, accompanied by Ensign Green. A letter received from Mr. Ekblaw, another member of the party, through the courtesy of the Danish explorer, Mr. Knud Rasmussen, indicates that Crocker Land, the main objective of the expedition, does not exist—at least at the supposed locality. It is a relief to know that the members of the expedition are in good health. The meteorological, geological and zoölogical investigations that they are carrying through in the North will prove of great scientific value.

After four years of brilliant exploration along the Arctic coast, Mr. V. Stefánsson left the service of the American Museum early in 1913, and entered that of the Canadian Government. His "Preliminary Ethnological Report," covering his observations between July, 1908, and September, 1912, constituting a volume of about four hundred pages, has been edited by Curator Wissler and published by the Trustees as Part I of Volume XIV of the *Anthropological Papers*. The Report preserves all the details observed by this gifted explorer and the whole narrative of his contact with the so-called "blond Eskimo." The Museum hopes in the future to secure the other sections of the volume from Mr. Rudolph M. Anderson, the other member of the party, and thus round out the history of one of the most remarkable expeditions undertaken under its auspices.

FAUNISTIC HALLS

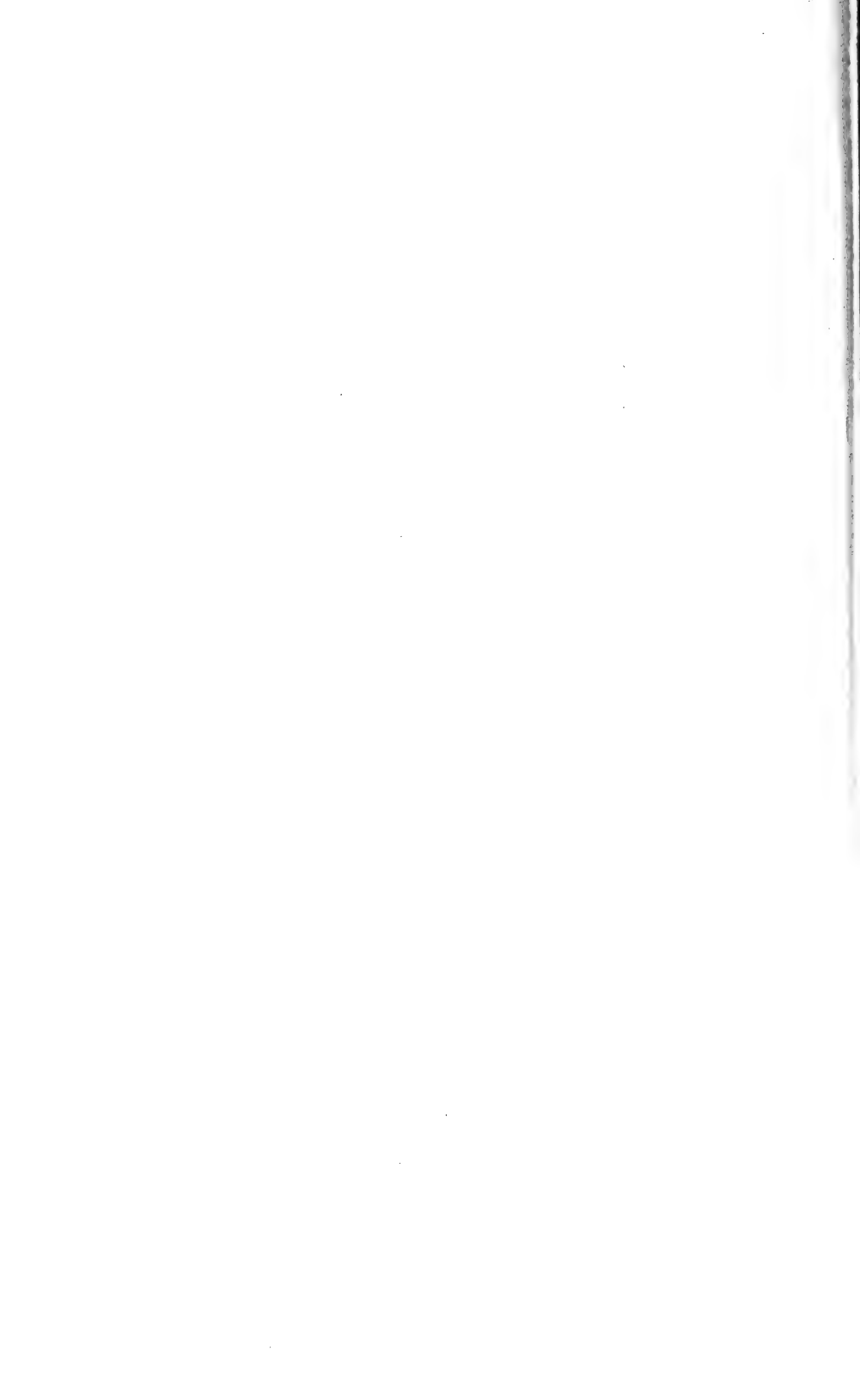
The geographic or faunistic arrangement of the mammals is proceeding slowly. Considerable progress has been made in the development of the Hall of North American Mammals, the first of our new series of faunistic halls to be installed. For the future African Hall extremely original plans have been prepared by the architects, under the direction of Mr. Carl E. Akeley, who for the past two years has taken charge of the preparation of all our African collections. This hall is fully described in the May number of the *American Museum Journal*, and is designed by Mr. Akeley for a series of mammal groups around the sides of the main floor, illuminated from above, while around the gallery will be a series of smaller mammal groups also with upper illumination. In the center will be the great group of elephants which Mr. Akeley collected in Africa and which he is now engaged in mounting after an original and permanent method of his own. This hall will be entirely devoted to scenes of African animals and of African natives in relation to the animals. When completed this will be a place of large and quiet beauty, with long unobstructed views,



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

MODEL OF THE PROPOSED AFRICAN HALL

Designed by Mr. Carl E. Akeley



where through lifelike groups of animals and men, and realistic backgrounds, one may feel the inspiration of this most ancient of continents. The fulfillment of these plans will be rendered possible only through the continued services of Mr. Akeley, through the construction of the East Central Wing by the City, and through the subscription of a fund of not less than \$250,000 for the execution of the groups and backgrounds. The completed hall will represent the greatest achievement in museum development to the present time.

JESUP FUND

Without the original Jesup Fund, the income of which now amounts annually to \$50,997, exploration and research during the year 1914 would have come almost to a standstill because of the necessary diversion of the other funds of the Trustees to meet the deficiency in maintenance and to conduct the practical administration of the Museum. This illustrates the wisdom of Mr. Jesup's restriction that none of the income from his bequest should be used for maintenance purposes. The following are some of the chief objects to which the Jesup Fund has been applied during the past year:

The purchase of specimens and collections reaching nearly all the departments of the Museum, including:

- The Schrammen Collection of European Cretaceous Fossils
- Several valuable Meteorites
- Mural paintings by Mr. Will S. Taylor for the North Pacific Coast Hall
- Support of the Congo Expedition
- Preparation of the African Collections, under the direction of Mr. Akeley
- Educational extension of the Museum to the Schools
- Mammal Groups in the North American Hall
- Reptile Groups in the Central Hall
- Models of Marine Animals
- Shore Life Groups of Nahant and other stations

Exploration

- Support of the Crocker Land Expedition under Mr. D. B. MacMillan
- For the Congo Expedition under Messrs. Lang and Chapin
- The Red Deer River, Alberta, for dinosaurs
- South American Exploration for Birds and Mammals
- Panama Exploration for Birds and Mammals

Purchase of books for the Library

Development of the Jesup Collection of North American Woods

Scientific publications, including the *Bulletin*, *Memoirs* and *Anthropological Papers*.

Professor Osborn's Research and Publication Fund

Professor Dean's Research and Publication Fund

HOSPITALITY TO SOCIETIES

The Museum has continued to extend its hospitality to a very large number of local and national scientific societies for lectures or special meetings, and throughout the year many of the leading civic, educational and scientific organizations of the City have been our guests. The regular meetings of the New York Academy of Sciences and Affiliated Societies continue to be held at the Museum, and the Library is the depository of the valuable collection of books and periodicals received by the Academy.

In the large auditorium there has been held a series of meetings, including the popular lectures and *séances* of the New York Academy of Sciences, and the Annual Meeting of the American Scenic and Historic Preservation Society. In coöperation with the American Alpine Club, Dr. William Hunter Workman and Mrs. F. Bullock Workman presented their lecture on the Ascent of the Hispar Glacier. The auditorium was also placed at the disposal of the Board of Education for the free public lectures given under the supervision of Dr. Henry M. Leipziger.

Among the special exhibitions which have been held in the Museum throughout the year are those of the Aquarium Society of New York, of the American Sweet Pea Society and of the Horticultural Society of New York. The latter was held from October 30 to November 3, inclusive, attracting more than 80,000 persons.

The following is a list of the various scientific societies which have been guests of the Museum during the year:

- American Academy of Arts and Letters
- American Alpine Club
- American Bison Society

American Ethnological Society
American Institute of Mining Engineers, New York Section
American Scenic and Historic Preservation Society
American Sweet Pea Society
Aquarium Society
Architectural League of New York
Camp Fire Guardians
College of Jersey City
Columbia University
Department of Education, New York City, Free Public Lecture Courses
Horticultural Society of New York
Linnæan Society of New York
MacDowell Club
Mount Holyoke Alumnae Association
National Association of Audubon Societies for the Protection of Wild
Birds and Animals
National Association of German-American Technologists
National Institute of Arts and Letters
National Plant, Flower and Fruit Guild
National Sculpture Society
Natural Science Committee of the Associate Alumnae of the Normal
College of the City of New York
New York Academy of Sciences
New York Entomological Society
New York Microscopical Society
New York Mineralogical Club
Parents' and Teachers' Association of Teachers College
School of Chiropody
Social Workers' League
Teachers' Training School
Torrey Botanical Club
Tree Planting Association

MEMBERSHIP AND STAFF

The Museum is to be congratulated on having secured on the Board the services of four new members, men of public spirit, of great practical experience and breadth of view, to help guard its future interests, and to take the place of those it has lost by death or resignation.

At the Annual Meeting held on February 2, 1914, Mr. George F. Baker was elected a Trustee as the successor of Mr. J. Pierpont Morgan in the Class of 1914.

Mr. R. Fulton Cutting was similarly elected a Trustee in

the Class of 1916 to fill the vacancy due to the resignation of Mr. William Rockefeller.

Mr. Henry C. Frick was elected to succeed Mr. George S. Bowdoin in the Class of 1918.

It is also gratifying to report that Mr. Archer M. Huntington, who felt compelled to resign from the Board in 1912, was again able to take up service on the Board and was elected a Trustee in the Class of 1918.

The Scientific Staff as well as the Board of Trustees has suffered historic loss in the death of Professor Albert S. Bickmore. Until ill health compelled him to retire in 1904, Professor Bickmore was an active member of the Department of Public Education. From that time until his death he served as Curator Emeritus.

Death has also taken from our midst one of the younger members of the Staff, Mr. John A. Grossbeck, Assistant in the Department of Invertebrate Zoölogy. Mr. Grossbeck, although only thirty-one years of age, had achieved an enviable reputation in Entomology and had become a valuable and competent member of the Staff.

On September 12, 1914, Mr. Frank E. Watson was appointed Assistant in the Department of Invertebrate Zoölogy, to the vacancy due to the death of Mr. Grossbeck.

Mrs. Agnes L. Vaughan, who had served as an Assistant in the Department of Education since November 1, 1906, resigned from the Staff in June, and Miss Ann E. Thomas, a graduate of Brown University, was appointed on August 1 to this vacancy.

In the Department of Public Health, Mr. David Greenberg resigned to accept a position in the State Department of Public Health, and Mr. Sidney D. Kramer was appointed to this vacancy.

The following promotions were made in the Scientific Staff:

Louis Hussakof, Ph.D., from Associate Curator of Fishes to Curator of Ichthyology.

William K. Gregory, Ph.D., from Assistant Curator to Associate in Palæontology.

Pliny E. Goddard, Ph.D., from Associate Curator to Curator of Ethnology.

The following were the new appointments:

Frank E. Watson, B.S., Assistant in the Department of Invertebrate Zoölogy.

Ann E. Thomas, Ph.B., Assistant in the Department of Public Education.

In recognition of his public service in connection with the Zoölogical Park and the American Museum, Professor Henry Fairfield Osborn was presented with a gold medal by the National Institute of Social Sciences on March 20 at the New York Academy of Medicine.

The Academy of Natural Sciences of Philadelphia has conferred the Hayden Memorial Medal for the year 1914 upon Professor Henry Fairfield Osborn in recognition of his contributions to the science of vertebrate palæontology.

Director Lucas was the official representative of the Museum at the opening of the Royal Ontario Museum, Toronto, on March 19. He was also the delegate of the Museum to the American Association of Museums at Milwaukee, in May.

Dr. E. O. Hovey, of the Department of Geology and Invertebrate Palæontology, and Dr. G. Clyde Fisher, of the Department of Public Education, represented the Museum at the inauguration of Dr. John H. Finley as President of the University of the State of New York on January 2.

Dr. Clark Wissler and Dr. Robert H. Lowie, of the Department of Anthropology, were to be the delegates of the Museum to the Nineteenth International Congress of Americanists, which was to have been held in Washington in October, but the European war compelled the canceling of these meetings.

At the inauguration of Dr. Livingston Farrand as President of the University of Colorado, the Museum was represented by Professor T. D. A. Cockerell of Boulder, Colorado.

Dr. Frank E. Lutz, of the Department of Invertebrate Zoölogy, has been named as the representative of the Museum on the Editorial Board for the list of insects of New York State, to be published by Cornell University.

Curator Winslow has resigned from the Faculty of the College of the City of New York to become Director of the Division of Publicity and Education of the reorganized New

York State Department of Health (Dr. Hermann M. Biggs, Commissioner). Professor Winslow continues his connection with the Museum and lectures as Associate in Sanitary Science at Teachers College. He has served during the past year as President of the Society of American Bacteriologists and has recently been elected chairman of the Laboratory Section of the American Public Health Association. He has also served as a member of the special commission appointed by the Secretary of the Treasury to formulate a standard for drinking water to be served by common carriers.

WELFARE OF EMPLOYEES

During the past three years a great deal of attention has been paid to the personal welfare of the employees, in order to insure for our large and very loyal staff a greater sense of security for the future and better conditions of living for the present, so that now a thorough system of provision and protection is in operation which will undoubtedly produce a more wholesome environment and greater efficiency.

In every instance the plans have received their first formulation by members of the administrative and scientific staffs before submission to the Trustees and to experts in insurance and economic administration. Six years ago the employees themselves organized the Employees' Benefit Association, which, in the event of death, pays immediately to the designated beneficiary the sum of \$150. In many instances this contribution has brought immediate relief which was much needed. The affairs of the association are administered entirely by the employees themselves, our Bursar, Mr. Frederick H. Smyth, being President at this time.

Two years ago the Trustees sanctioned the establishment of a Contributory Pension System, to which they agreed to contribute annually a sum equal to the contributions of the employees, amounting in the year 1914 to \$8,005.66. This plan entitles an employee to a pension based on age and length of service, and provides a gratuity in the event of death. The Pension Fund is administered by a Board composed of Trustees and employees, Mr.

Felix M. Warburg serving as Chairman. After two years' experience the system is working well, and, contrary to the history of many pensions, a recent report of the Actuary shows that it is financially sound. All the permanent employees of the Museum are members of the Pension Fund.

Early in the year our Registrar, Mr. George N. Pindar, suggested that it would aid materially in reducing the cost of living for many employees if food products and other household necessities could be bought at cost. At the President's request, he investigated various forms of coöperative store and submitted a plan for a store in the Museum. This seemed so feasible that the President appointed a committee of employees to consider details of the plan and organize a store if this seemed warranted. To aid the project the Trustees contributed part of the permanent equipment, and the store was finally opened in November in one of the basement rooms. Many of the employees report that they have been able to reduce their living expenses through patronage of the Museum Store.

I. GENERAL ADMINISTRATION

FREDERIC A. LUCAS, Director

If no one event of the past year stands preëminent above others, it is encouraging to report that steady progress has been made in all branches of the Museum's activities. This has been done, although hampered to a considerable extent by financial considerations which not only have prevented work on the construction of the East Wing but have restricted field work and the carrying out of various improvements in building and exhibits.

The art side of the institution fared well during the past year, and it is with pleasure that we record the addition of eight paintings by Angelo Heilprin, depicting various phases of the eruption of Mont Pelé, and one by Audubon, also the busts of Pasteur and John Burroughs. The donors were

respectively the family of Mr. Heilprin; Miss M. Eliza Audubon; M. Vallery-Radot, Dr. E. Roux of the Pasteur Institute of Paris and Dr. A. Calmette of the Pasteur Institute of Lille; and Mr. Henry Ford. The bust of Pasteur most properly dominates the Hall of Public Health, while that of Burroughs is appropriately placed with our native birds.

There has been a decided increase in the use of the collections by advanced students, particularly by art students, who have made extensive use of the Indian collections and those of butterflies and birds. The Peruvian textiles are especially popular, though this is largely due to the interest shown by Mr. Mead in the art side of museum work and to the cordial welcome, aid and advice he gives the visitor. In a number of cases a class of students has come accompanied by a professor and has been accorded the use of one of the assembly rooms; a member of the Museum staff has made a brief address; the visiting professor has given his regular lecture, and afterward the class has studied the objects bearing on the subject under consideration.

The public reading room, noted in the report for 1912, was given up at the close of the year 1913, as the number of readers did not warrant the cost of keeping the room open, and many books were stolen.

The sales of popular publications have been somewhat fewer than last year, partly owing to the far-reaching influence of the general financial conditions which affect even the expenditure of small sums, and partly owing to the fact that the edition of the *Guide* was exhausted much sooner than was expected and other publications "went out of print." Still the total number of popular publications sold has been considerable, amounting to 2,633 copies of the *Guide*, 791 of *Handbooks* and 2,525 of other leaflets. Post-cards also continue to be in demand and 1,054 sets of fifteen and 3,943 sets of three were sold, the total being 27,639 cards.

It is interesting to note that the little leaflet, *A First Chapter in Natural History*, has proved to be quite as much in demand as any of the illustrated leaflets.

Four important *Handbooks* and two *Leaflets* are ready for publication whenever funds are available. Two of these, the *Indians of Manhattan* and *Trees and Forestry*, are much needed, as they were among the most called for of the various leaflets, and it is intended to issue them as *Handbooks*.

The Southwest Tower room, third floor, which is not only an office but the home of the New York Entomological Society, has been partitioned off and painted, so that it is now a very pleasant meeting room.

Building Operations and Alterations

only an office but the home of the New York Entomological Society, has been partitioned off and painted, so

An emergency cloak room has been built in the West Corridor, and extensive and important changes have been made in the basement workshops to accommodate new machines and to facilitate the execution of carpenter and metal work.

The minor work, which after all is really the major part of the work, such as constructing bases, frames and mounts, alteration of cases and improvements in installations, has gone steadily forward, but, owing to the failure of the city to make an appropriation for construction, there has been less case work than usual, and work has not begun on additional and much needed storage rooms. Cases have been made, however, for four habitat groups, and for extending six large pier cases for fossil vertebrates, and eighteen metal frame cases of different types have been built. In the way of providing for material, 2,250 standard trays and 500 glazed trays for insects have been made. As an illustration of the economy of having the work done in the building, it may be mentioned that \$1,250 was saved on these insect trays alone.

Another lantern slide case with 120 drawers and holding 12,000 slides has been finished, but two more are needed to complete the work of classifying the slides.

As far as the limited funds would permit, the old lights in the exhibition halls have been replaced with tungsten lamps in new fixtures, but until this work is completed the building cannot be lighted throughout and a part of the lighting even then will be somewhat unsatisfactory owing to the location of the old lights. We are in receipt of continued complaints from visitors of lack of light on winter afternoons and on

dark days, and the stereotyped—and correct—reply is that we simply cannot light the building without an appropriation for changing the fixtures and adding somewhat to the coal bill. The first floor is now completely tungstenized and much has been done on the second and third floors. As a part of the work of improving the lights, the Gem Hall has been equipped with new fixtures which add much to its appearance. New cases are much needed for this collection, of lighter construction and more in keeping as to form and size with the objects displayed.

The most important work in exhibition is the installation of the collection of mollusks and the opening of the Hall of **New Exhibits** Shells after having been closed for four years. It would be pleasant to write that all the exhibition halls are open, but this cannot take place until there is a new wing and room for the work of preparation now being carried on in the Southeast Pavilion, second floor.

The most noteworthy single piece placed on exhibition during the year was the Model of the Copper Queen Mine which had been in course of preparation for three years and is one of the most accurate, if not *the* most accurate model of the kind ever made.

The award for the most beautiful piece should undoubtedly go to the group depicting the awakening spring life of the New England ponds and pools. This is not only the most beautiful of the groups showing the home life of amphibians and reptiles, but has no superiors in this respect among the many that have been made.

A most desirable addition to the Hall of North American Mammals is a group of Beavers, and many of our visitors have doubtless justly wondered why this, in some ways the most important of all our mammals, as the Pronghorn is the most characteristic, has so long been missing.

Material has been secured for a group of Mountain Sheep and for one or two groups of small mammals, and in the meantime the Fur Seals are being made into a habitat group. Thus, although the animals destined ultimately for the Boreal



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY
THE BEAVER GROUP



Hall are of necessity housed here, the North American collection is being gradually developed.

As stated at the outset, progress has been made in all lines, but while the question of exhibits is treated in the reports of departments, it may be said that the additions to the exhibits of insects are especially noticeable as are the changes in the gallery devoted to Central and South America.

The work of the printing office continues to be as great in quantity and as high in quality as in the past, while its character is even more diversified. This year it includes the printing of four plates for *Anthropological Papers*, and two colored plates and fifteen in tint for the *Journal*, 85,000 plates in all, work that called for 114,500 impressions; an illustrated leaflet of twenty-seven pages, *Our Common Butterflies*, and a forty-eight page pamphlet, *The Public Schools and The American Museum of Natural History*.

Owing to this work the output of labels has been slightly lessened, though as an offset something over 2,000 labels for shells, where little information could be given save the name and locality of the specimen, have been hand printed. Some of our friends have told us that more labels could be printed if some of the many tickets, circulars and statements were printed outside, but while this is undeniably true, experience has shown us that this class of work can not only be done more economically in the Museum than out of it, but that it can be done much more expeditiously and just when it is wanted, and it very frequently happens, in connection with lectures or work with the schools, that circulars are called for at short notice. A point that the outsider often fails to recognize is the very considerable saving of time to the members of the Museum staff and the consequent indirect saving of money. The number of the more important general or descriptive labels is, however, about the same as last year and these include many of the large labels placed at the entrances to the halls to give the visitor a clue to their contents and an idea of the exhibits in the halls beyond. The

most important of these are the index labels with maps at the entrance to the Indian Halls from which the reader may learn just what tribes are represented by exhibits, the location of these tribes in North America and the culture areas to which they belong. Much of the work just noted has been made possible by the commodious new printing room, by the acquisition of a new and larger press and a cutting machine, but is particularly due to the interest of Mr. Klassen and Miss Beale.

It may be a mistaken impression, but the writer feels that the public reads more labels than formerly; it is not an erroneous idea, however, that labels are much more worth reading than they were twenty-five years ago.

SUMMARY OF PRINTING

	1914	Impressions
Plates for <i>Journal</i>		114,500
Letter-heads		54,650
Field and Reserve Collection Labels.....		34,150
Report, Requisition and similar forms		34,600
Catalogue Cards, Postals, Tickets, etc.....		61,450
Programs, Circulars, Statements		116,265
Envelopes, Miscellaneous		55,950
Individual Labels.....	821	
Descriptive Labels	1,371	
	<u>2,192 (average of 5 each)</u>	<u>10,960</u>
		482,525

The average daily attendance has been larger than ever before. Attendance fell off during the first part of the year, owing to the severe weather, but important gains were made later. The loss shown in the table is due to the comparatively small attendance during the week of the November Flower Show, when the number of visitors was but 82,080 as compared with 167,503 in 1913. This exhibition and that of the American Sweet Pea Society, held in June, again call attention to the desirability of a special exhibition hall for such purposes.

STATISTICS OF NUMBERS REACHED BY THE MUSEUM
EXTENSION SYSTEM

	1908	1909	1910	1911	1912	1913	1914
Board of Education Lectures.....	43,386	28,402	43,549	40,067	52,855	48,119	52,761
Lectures to School Children and Classes visiting the Museum for study.....	39,179	36,236	24,894	39,379	49,872	56,899	65,785
Meetings of Scientific Societies and other Meetings and Lectures.....	15,587	27,369	15,712	18,649	28,384	33,357	32,939
Total.....	98,152	92,007	84,155	98,095	131,111	138,375	151,485
Attendance in Exhibition Halls.....	945,430	747,134	528,907	626,046	715,852	728,288	657,458
Total Attendance for all Purposes.....	1,043,582	839,141	613,152	724,141	846,963	866,663	808,943
Numbers reached by Circulating Collections.....	575,801	922,512	839,089	1,253,435	1,275,890	1,378,599	1,273,853
Grand Total....	1,619,383	1,761,653	1,452,241	1,977,576	2,122,853	2,245,262	2,082,796

The work of the last three years in repairing and painting has placed the greater part of the interior of the Museum in good condition. That the work in many cases was greatly needed was only too apparent, some of the halls and rooms not having been touched since their completion eight or ten years ago. The painting of the West Corridor has added greatly to the appearance of the Audubon collections therein installed, and it is hoped during the coming year to improve and paint the East Corridor. Many fail to realize the effect on visitors of the general aspect and material condition of exhibition halls. These, as well as the exhibits, should be cared for and made attractive. The intrinsic value of a series of specimens hung up in a barn would be just as great as if they were arranged in proper cases in an attractive hall, but their effect and educational value to the visitor would not be one-tenth as great.

An illustration of this may be had from our own halls where the improvement in the installation of the Indian collections has caused increased attention on the part of the visitors, led to more careful reading of the labels and elicited frequent words of approval regarding the appearance of the collections.

A large, one might almost say the larger part of the value of exhibits is not in quantity but in quality and methods of display. Mere quantity tends to discourage rather than

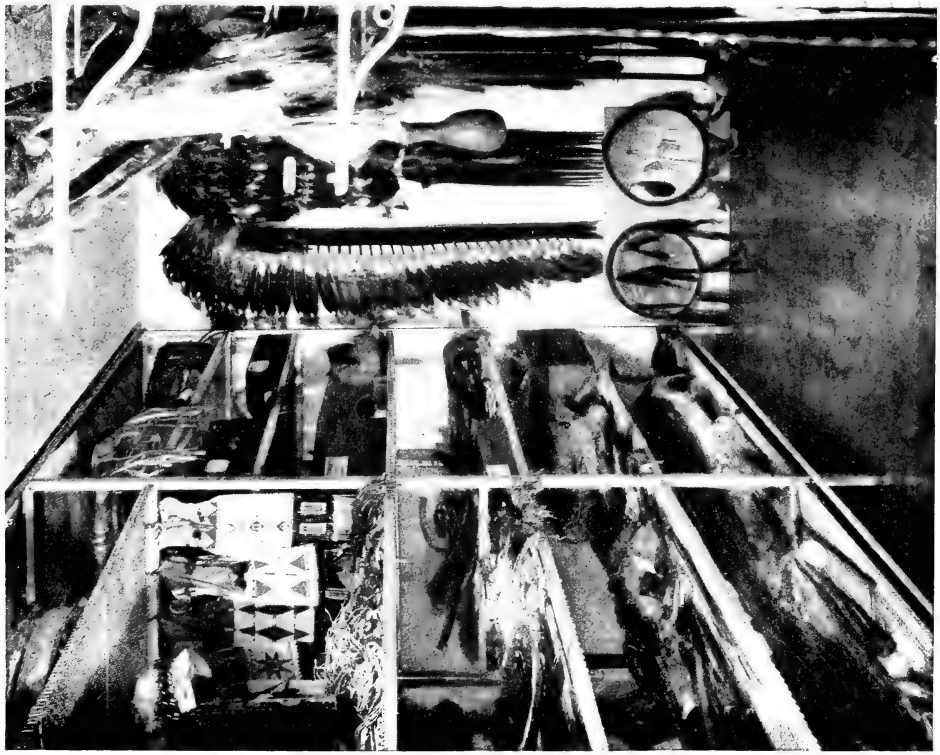
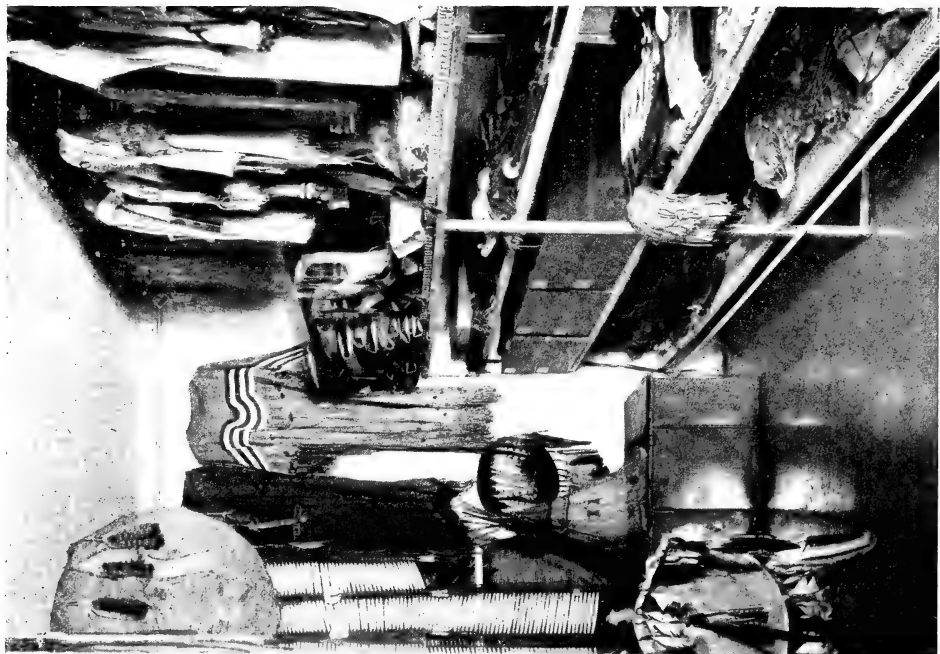
encourage attention, a fact that was well expressed by one of the visitors at the Child Welfare Exhibit, a mother with two children, who after glancing at two or three alcoves said, "Come on, children, there's too much to see here."

It is not enough merely to show objects, not enough even if they are well labeled; they should be so displayed as to attract the visitor. As the writer has said before, if you cannot attract the visitor, you cannot interest him; if you cannot interest him, you cannot impart to him any information. It matters not how instructive a label may be if it isn't read, and it will not be read if the interest or curiosity of the visitor is not aroused. The educational work of museums differs from that of other institutions in that its courses, so far as the majority is concerned, are purely elective.

As much sandblasting of windows has been done as possible and some experiments have been made with yellow glass and on a small scale with Crookes' new glass. At the present stage of glass making, the writer is inclined to believe that the best results can be obtained by double windows of ground plus yellow glass, and although he has had no opportunity to try this on a large scale, he believes that the yellow glass will interfere very little with most color values. The above method has been used in front of the exhibit of bacteria and seems to have been successful in stopping the breaking down of these colonies which began shortly after they were put on exhibition.

Under the direction of Mr. Foulke, the building has been kept in its usual clean and orderly condition, notwithstanding the fact that the number of cleaners has not kept pace with the growth of the building and that at present writing all the halls, save one, are in constant use. That much depends upon the housekeeping of the building is shown by the fact that one of our friends in sending a good-sized check gave as the primary reason for the gift the clean and orderly condition of the exhibition halls.

The usual care has been given not merely to keeping the equipment of the Museum in good order, but to adding to it, and great credit is due to Messrs. Langham and Beers. It is worth noting that while the power plant has been in constant



DEPARTMENT OF ANTHROPOLOGY
NEW FIREPROOF STORAGE ROOMS
A Portion of the Study Collections

use for eleven years, it is practically in as good condition as when delivered and that the repairs have been confined to renewal of grate bars and firebrick.

The needs of the Museum are practically the same as those of last year intensified. While fully appreciating existing financial conditions, the Director again points out **Needs** those needs lest it might be thought they had in any degree been lessened. First and foremost among them are repairs to the roof, to the heating apparatus in the old North Wing, and improvement in the electric light equipment. These repairs are too extensive and too costly to be undertaken without special appropriation for the purpose, as are the improvements in the acoustics of the large lecture hall. These would be appreciated by every lecturer and audience using it, and with existing knowledge on the subject the defects can be remedied.

In the way of construction, the most crying need is for the East Wing, which continues to be a hole in the ground, while valuable material and interesting exhibits remain in storage, others shown where they do not belong and the work of preparation is checked.

More fireproof storerooms are greatly needed, and while the fire fighting appliances of the Museum are good and frequent fire drills are held, yet the prime consideration is to have objects where they either cannot take fire or where fire may be confined to a single room.

Next in importance is the need of a building in the south-west court for workrooms, storage and temporary exhibitions. Such a building would be comparatively inexpensive and not only would it add much to the general efficiency of the Museum and save a great deal of time, but something of the kind must be built before the West Transept can be extended.

In concluding, the Director wishes to thank all members of the Museum force for the interest and energy shown in the work in which they have been engaged, whether scientific or mechanical, and for a public museum one is as important as the other. Without this the progress made during the past year would not have been possible, and as one looks back it is pleasant to see that a great deal has been done.

II. REPORTS OF THE DEPARTMENTS

PUBLIC EDUCATION

DEPARTMENT OF PUBLIC EDUCATION

GEORGE H. SHERWOOD, Curator

In reviewing the activities of the Department of Public Education for the year 1914, interest centers in the plans proposed for the extension of Museum instruction to the public schools. **Museum Extension to the Schools** These plans include three features, namely, the establishment of local lecture centers, the inauguration of a system of loaning slides to teachers and the opening of a branch teaching museum in the Washington Irving High School.

For more than ten years the department has been giving for the pupils of the public schools series of illustrated lectures or talks especially designed to supplement the class-room work in geography, history and natural science. **Proposed Local Lecture Centers** All these lectures have been given at the Museum after school hours, and, although attendance has been purely voluntary, nearly 40,000 children annually have visited the Museum to hear them. This large attendance is evidence that these lectures are of real educational value, for few realize the responsibility placed upon a teacher in bringing safely a class of twenty-five to fifty pupils to the Museum. In view of the severe nervous strain on the teacher, the dangers incident to the transportation of children through the city streets, and, most important of all, the fact that many parents cannot afford the necessary car fare, scores of teachers have asked if these lectures might not be repeated in centrally located schools for the benefit of the pupils who cannot make the trip to the Museum. To test the desirability of such a plan, the auditorium of the Washington Irving High School in East Seventeenth Street was placed at the disposal of the Museum

by Principal William McAndrew, and through the coöperation of Miss Lillian Belle Sage of the same school, the elementary schools of the neighborhood were informed that three lectures would be given at this center by members of the Museum staff. The same lectures were repeated in the assembly hall of Public School No. 64, in East Tenth Street, for the schools of that neighborhood. From 800 to 1,500 pupils were present at each of these lectures, and the results were sufficient to demonstrate the practicability and desirability of establishing local lecture centers. As a result of these experiments, the Curator submitted to President Osborn a plan for the extension of the Museum's educational work by the inauguration of ten of these local lecture centers.

At the same time the Curator presented a plan that would enable the teachers of the city to borrow lantern slides from the Museum to illustrate class-room lectures.

Loan System of Slides The Museum possesses some 30,000 slides, more than 12,000 of which have been carefully catalogued, thus making a loan system practicable.

The Curator further pointed out that the effectiveness of nature study in the public schools of the city is largely dependent upon the enthusiasm of the individual teacher and the *accessibility* of nature study material. He therefore recommended, as an experiment, the opening of a branch teaching museum in the Washington Irving High School. In this way it would be possible to make available for teachers a much larger and more comprehensive teaching collection of natural history objects than is now possible through our regular circulating collections. It was expected that if the teaching museum at the Washington Irving High School facilitated the work of the teachers, the plan could be extended to other schools.

Branch Teaching Museums

These plans were ultimately submitted to the Board of Education and appropriations requested for carrying them out. The Board of Education approved the plans and recommended the appropriations, but the Board of Estimate and Apportionment provided only for the system of loaning slides.

Although the city failed to provide an appropriation for local lecture centers, and in spite of the fact that the Trustees are devoting large sums of their own money to public education, the Curator was authorized by the President to arrange for a series of lectures at the Washington Irving High School during the fall and winter. Accordingly a course of eight lectures for the elementary schools was begun in November. The attendance has been large and on several occasions the hall, which seats 1,500, has been filled. This, together with the enthusiastic reports of the teachers, again indicates the desirability of this form of Museum extension, and it is to be hoped that sufficient funds will be provided from some source to enable the early carrying out of this plan.

From the very first year that nature study was introduced into the city schools, the teachers have relied upon the Museum to supply the necessary teaching material. The system that has been built up meets the needs of teachers with the minimum of effort on their part. Collections are delivered to the schools by the Museum messengers without expense to school or teacher and are called for at the end of the loan periods. During the year 1914, of the 550 public schools in the city, 451 or about 80% have been regularly supplied with nature study material. The total number of schools supplied is as follows:

**The Circulating
Nature Study
Collections**

Manhattan	130	Richmond.....	23
Brooklyn	137	Corporate Schools.....	24
Queens	54	High Schools and Colleges...	36
Bronx.....	47	Private Schools and Others...	19

One important feature of this work is the personal relation established between the teacher and the Museum officers. This is mutually helpful and enables us to enlarge the collections or prepare new ones as the case may require. Thus the emphasis placed in the syllabus upon animals useful to man and animals harmful to man has led to the addition of two new cases to the loan series, namely, ten sets of economic

insects showing the life history of the destructive tent-caterpillar and of the useful silkworm. The collections were further augmented by the preparation of fifty cases of moths and butterflies for the use of classes in drawing and design, while twenty-five special collections of birds and shells have been provided.

STATISTICS RELATING TO THE CIRCULATING COLLECTIONS

	1908	1909	1910	1911	1912	1913	1914
Number of Collections in use.....	484	435	390	512	537	597	675
Number of Schools of Greater New York supplied...	383	419	334	486	491	501	470
Number of Pupils studying the Collections.....	575,801	922,512	839,089	1,253,435	1,275,890	1,378,599	1,273,853

From statistics furnished by the teachers the circulating collections were studied by 1,273,853 pupils. Fifty of the collections were rented by the Board of Education of Newark and these were studied by 50,632 pupils. Thus through this form of extension work 1,324,485 children have been reached.

The special collection of material illustrating the customs of the North American Indians was loaned to the 135th Street Branch of the New York Public Library in connection with the New York City Tercentenary Celebration. Besides being of interest to the general public, it was studied by nearly a thousand children.

During the spring and again during the autumn, four series of lectures were given by members of the department assisted by other members of the Scientific Staff. One series was devoted to the geography and industries of the United States, another to the current history and geography of the world, a third to the early history of America and the fourth to subjects of natural history. All were planned to correlate with the

Coöperation with the Libraries

Lectures to School Children

school curriculum. The number of pupils from the public schools who attended lectures at the Museum in 1914 was 42,610, an increase of nearly 3,000 over 1913. Besides the regular courses of lectures, several special lectures were given by members of the department upon the request of schools.

Other courses of lectures given in the auditorium of the Museum included a spring and a fall course for Members on Thursday evenings, a spring and a fall course for the children of Members on Saturday mornings, the regular series given under the auspices of the Board of Education, a lecture in conjunction with the American Scenic and Historic Preservation Society, three special lectures to the blind, a course of four lectures on the Social and Religious Customs and Beliefs of Primitive Men given by members of the Department of Anthropology, and a lecture in conjunction with the National Sculpture Society, the Architectural League of New York and the MacDowell Club. A special lecture to Members was given on the Panama Canal by Dr. Frederic Poole, and one on African animals by Mr. Paul J. Rainey. A lecture in conjunction with the American Alpine Club was also given and special lectures under the auspices of the New York Academy of Sciences and Affiliated Societies.

Through the Jonathan Thorne Memorial Fund the work for the blind has been carried on throughout the year. During February and March, classes of blind pupils from the public schools of New York City visited the Museum twice a month.

In the planning of the 1914-1915 schedule for the blind classes in the public schools, special attention was given in September to the correlation of the instruction given at the Museum with the individual needs of each class of blind pupils. The teachers of the blind were all visited and helpful talks arranged, which not only illustrate and supplement the school lessons, but give to the children a glimpse of the outside world that they would otherwise never have. The visits to the Museum are recognized as a part of the school work, and are made during school hours, at the time selected by the



DEPARTMENT OF PUBLIC EDUCATION

BLIND CHILDREN STUDYING RELIEF MAP GLOBE FOR THE BLIND

These globes have been prepared under the direction of the Department of Public Education, through the Jonathan Thorne Memorial Fund, and are loaned to the public schools for the blind



teacher as most convenient. Each class receives individual attention and the small group work—there are generally from ten to twelve in a class—gives to each child the opportunity to feel, “see” as the blind call it, every object carefully. Pupils from twelve classes for the blind in New York City and Brooklyn are regular visitors. A complete list of the blind pupils, with their ages, grades and addresses has been made, and, beginning in November and continuing until June 15, 1915, at least eight talks a month have been scheduled.

The nature study collections loaned by the Museum to the public schools, as well as the special collection for the blind—containing a hippopotamus, a giraffe and a camel—have been circulated among the blind classes. Several small elephants have also been cast, and a case containing three typical North American mammals is being planned. The large relief globes, more than two feet in diameter and showing the physical features of the earth, were completed early in the year and have been placed in the hands of eleven of the classes for the blind. It is said that, for the first time, the blind children are enabled to get an adequate idea of the earth as a whole, and that the seeing classes of the public schools as well as the blind are using them with profit.

During the year three lectures for the blind of New York City and vicinity have been given in the large auditorium of the Museum. On February 20, Mr. Louis Agassiz Fuertes spoke to an audience of 240 on “Our Birds and Their Music,” imitating the notes and songs of many of our birds. On September 30, Professor A. Christen gave a lecture, at which the attendance was 216, on “The Beauties of Esperanto and Its Value to the Blind,” and on November 27 Mr. Ernest Thompson Seton talked to 385 blind men and women on “Voices of the Night.” After the lectures of Mr. Fuertes and Mr. Seton, many of the birds and animals about which stories had been told were placed in Memorial Hall, and the blind men and women gathered about them and examined them with evident pleasure.

We desire to express our appreciation of the assistance given by Mr. Lorillard Spencer, Jr., Scout Commissioner of Manhattan, and Mr. W. B. Holcombe, Scout Commissioner

of Brooklyn, and to the Boy Scouts who kindly volunteered to act as guides for the blind who attended these lectures.

During the last half of the year, the work for the blind has been in the immediate charge of Miss Ann E. Thomas, who joined the department staff in August. In this work she has been assisted by Miss Clara A. Kelsey. The success of this branch of Museum instruction is in no small measure due to the enthusiasm which Miss Thomas has aroused in the teachers.

The members of the department staff have been called upon frequently during the year to give special instruction to classes visiting the Museum and to explain the exhibits. In this way the visits of the teachers and pupils have been made more profitable and the number of classes that have availed themselves of these privileges is increasing. Indeed there have been occasions when the entire staff of the department was engaged in this particular work. It is gratifying to observe that more and more teachers are seeing the wisdom of confining the attention of their pupils to one or two halls rather than to a general view of the Museum.

In connection with the broadening out of the field covered by the Museum in its work in Public Education, an interesting experiment was made during March and April by Mrs. Vaughan. With the idea in mind of using the exhibits of the Museum to illustrate the beginnings of human invention and industry, a course was planned to serve the threefold purpose of presenting the background of history, of arousing interest in and respect for human labor and of showing school children how to view the Museum collections intelligently. The course, in a series of nine lessons, was given to a class of six students from the New York Training School for Teachers. The first lecture introduced the general theme: the development of the human mind, and the origins of society as shown in material culture; the remaining ones dealt with stages of culture in various areas without regard to chronological sequence and included the study of primitive shelter, food, clothing, basketry, pottery, ornament and design and the evo-

lution of writing. The results indicate that this idea is worthy of further development.

Our reference files of photographs have been increased by 1,605 pictures, and 3,886 new negatives have been added to the negative file. The nucleus of a reference library of motion picture films has been started through the gift by Mr. Paul J. Rainey of a complete set of the negatives of his latest African pictures and through the gift by Mr. James Barnes of a complete set of the films taken by the Barnes-Kearton Expedition of 1914. The department has been called upon to do the major part of the photographic work of the entire Museum. This has required very exacting service from our photographer. In all he has made 5,738 photographic prints, 1,558 lantern slides, 1,003 negatives, 278 enlargements and 37 transparencies.

Through the death of Professor Albert S. Bickmore, Curator Emeritus, on August 12, 1914, not only the Department of Public Education but the cause of education in the State lost one of their strongest supporters. Professor Bickmore was the organizer of the Department of Public Education and through the relations established with the State developed a system of visual instruction which in modified form is still maintained by the State. The gift to the Museum of his unique and superb collection of lantern slides marks him as the department's chief benefactor.

Mrs. Agnes L. Vaughan, who had been connected with the department since 1906, resigned her position as Assistant in June. Miss Ann E. Thomas, a graduate of Brown University, was appointed Assistant in the department in August.

In October Miss Winifred Blair terminated her services with the Museum and Miss Clara A. Kelsey was appointed in her place.

Miss Kathryn I. Upson, a graduate of Vassar, has been employed in the department as a temporary assistant in cataloging the Museum's series of lantern slides.

GEOLOGY AND EXTINCT INVERTEBRATES

DEPARTMENT OF GEOLOGY AND INVERTEBRATE
PALÆONTOLOGY

EDMUND OTIS HOVEY, Curator

The Schrammen Collection of Fossils has been obtained by the aid of the Jesup fund. This collection consists of about 5,000 specimens, illustrating 1,300 species and including 300 or more types from all the sections of the celebrated Cretaceous beds of northwestern Germany, the cream of the collecting activities for a lifetime of an experienced palæontologist. As a gift from Mr. J. P. Morgan, there has been received the Howell Collection of Meteorites, consisting of slices, fragments and entire masses representing fifty-four falls and finds, the chief of which are the Ainsworth and Williamstown irons, which are new to our collection, and a series of fifteen bolides of the Modoc aërolite, which gives us the best representation of that fall in any Museum, also a 484 gram entire mass of the rare Cowra iron. Through the generosity of Mr. Arthur Curtiss James, there has been secured a 310 pound entire mass of the new Ysleta siderite from near Ysleta, Texas, and a 13 pound aërolite from Culbertson, Nebraska.

Important Acquisitions and Acknowledgments

New Meteorites

In addition to the foregoing we have secured, partly by exchange and partly by purchase, representative specimens of twenty-five falls, twenty-three of which were new to us. Among these special mention may be made of an 8,800 gram entire section of the new Mt. Edith siderite; 8,279 grams comprising many hundreds of bolides of the Holbrook, Arizona, stone shower; an 811 gram slice of the Big Skookum, a siderite which was found at a depth of 65 feet below the surface in the Glacial gravels near the Yukon River, Alaska, and is therefore supposed to be of Glacial age; and a 4,500 gram mass of the Imilac siderolite from Atacama, Bolivia, South America.

Acknowledgment should be made to Messrs. James Douglas, J. P. Morgan and Arthur Curtiss James and the State Geological Survey of Oklahoma for important aid in the advancement of the department's work.

The Curator has continued to serve as Chairman of the Committee in charge of the Crocker Land Expedition. On the 17th of May was received the first dispatch of the year from Mr. Donald B. MacMillan, the leader of the Expedition, reporting all well and plans for advance toward the object of the expedition as being well in hand. Ten days later letters from Mr. MacMillan and various members of the staff were received. These confirmed the telegraphic report, gave some of the experiences of the winter, deplored the failure of the wireless to send or receive messages and told of a trip by Mr. Ekblaw accompanying Mr. Knud Rasmussen to examine and report upon a large iron meteorite on the shores of Melville Bay which is probably a fourth member of the Cape York series, three of which are at this Museum. This new meteorite was discovered by Kood-Look-too and sold to the Danish government.

On 23 November, through the kindness of Mr. Knud Rasmussen, the Museum received a letter from Mr. Ekblaw, reporting that Mr. MacMillan, leader, accompanied by Ensign Fitzhugh Green, engineer and physicist, journeyed 125 miles northwest from Cape Thomas Hubbard across the ice of the Polar Sea in a search for Crocker Land. For two days Messrs. MacMillan and Green thought that they saw land, but this proved to be a mirage, and they finally concluded that Crocker Land does not exist, at least within the range originally ascribed to it. The journey out and back from Cape Thomas Hubbard occupied two months and proved to be extremely perilous. The party crossed thirty-eight leads on thin ice, lost most of their dogs on the journey, and on the day after they got back to Cape Thomas Hubbard "the ice on the Polar Sea broke up and became a hideous, grinding chaos of broken ice, on which they would certainly have perished had they not got back as they did."

On 27 June, Assistant Curator Reeds left New York for field work in the Arbuckle Mountains of Oklahoma in coöperation with the State Geological Survey of Oklahoma. He spent most of the months of July, August and September on this work, returning to the Museum on 24 September. Profiles were run, topographic data were assembled, photographs were taken and rocks and fossils were collected, thus supplementing work previously done by him in that region and probably completing the field work required for the monograph on the Hunton formation upon which he has been at work for some years. A large amount of material was collected and shipped to the Museum and a considerable series of rocks and soil samples was collected for the Oklahoma Survey. The first series of fossils, including all the types which may be made as the result of this expedition, will be the property of the Museum, and a set of duplicates will be sent to the State Geological Survey of Oklahoma.

In September, Mr. W. B. Peters of the Department of Preparation and Mr. P. B. Hill spent about three weeks at Weyer's Cave, Virginia, collecting additional material for the large reproduction of a grotto from that cave which is being installed at the north end of the Hall of Geology, beside the Copper Queen Cave.

The great Copper Queen Mine Model, the gift to the Museum of Dr. James Douglas, was opened privately to invited guests on the afternoon of 16 February, and to the American Institute of Mining Engineers on the evening of 17 February in connection with the annual meeting of the organization. The model was opened to the public on 18 February. The exhibit includes, besides the large model, a smaller model on the scale of six feet to the inch illustrating one method of mining out a stope and hoisting the ore to the surface. This is a working model, so-called, to the extent that the cages in the shaft go up and down, operated by an automatic electric motor. An attractive feature of the exhibit is the series of magnificent specimens of malachite and azurite from the original Copper Queen Mine which the Museum was fortu-



DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALAEONTOLOGY
COPPER QUEEN MINE MODEL.
Gift of Dr. James Douglas



nate in receiving from Dr. Douglas and the Company many years ago. A highly instructive feature is a new series of specimens received late in the year, illustrating the underground geology of the region and the metallurgical treatment of the ores. Supplementary to this general exhibit is the Copper Queen Cave, the material for which was collected by the Curator in 1910 and 1911 at the expense of the Copper Queen Consolidated Mining Company. The reconstruction of the very successful grotto and its containing case was done by Mr. W. B. Peters of the Department of Preparation, under the direction of the Curator.

The systematic collection of meteorites has been rearranged and the new accessions of the year incorporated. A new case has been added in which have been placed the large and handsome single specimens and slices of the collection. Furthermore, a special case has been provided in which the distribution of a stone shower is illustrated by some two thousand specimens of the Holbrook, Arizona, fall placed upon a surface of soil from the locality where the meteorite struck.

Progress on the rearrangement of the section of the hall illustrating historical geology has been interrupted by the diversion of Assistant Curator Reeds to his field work in Oklahoma and other important work.

The department has received as a loan from Princeton University, with the consent of its owner, Mr. D. M. Barringer, the Barringer Collection from Meteor Crater (Coon Butte), Arizona, illustrating the famous bowl-shaped depression (4,000 feet in diameter and 570 feet deep) which is now considered by scientists to have been caused by the impact of the Canyon Diablo iron meteorite.

Arrangements have been made whereby the Museum is to receive from the New York City Board of Water Supply a collection illustrating core-drill work which has been done by the various departments of the City of New York in carrying on various kinds of engineering projects, including the Catskill Aqueduct. This collection is to be arranged in a convenient place and manner so that it may be utilized by engineers and other students in studying

**Exhibition
Collections****Collection
on Deposit****Study
Collections**

the under surface geological conditions of the city and a portion of its immediate vicinity.

During the year a series of fossils illustrating historical geology was selected, identified and labeled and presented to Wellesley College to assist that institution in rehabilitating its geological department after the fire which destroyed its educational material early in the year. In this connection it may be of interest to state that this work cost the Museum not less than \$150 in time and that a similar series selected for Professor Charles T. Kirk, of the State University of New Mexico, Albuquerque, New Mexico, a year ago, cost about the same. Such work is worth doing and more of it might be done to good advantage both to the recipients of the collections and to the gaining of space in our crowded storage cases, but it takes time and labor for which no provision has been made in the budget of the department.

Assistant Curator Reeds prepared about fifty illustrations—glacial maps, profiles, sections of river valleys showing geo-

**Research
Work**

logical construction—for Professor Henry Fairfield Osborn's book, "Men of the Old Stone Age." He also made translations from Penck's estimate as to the length of Pleistocene and Post-pleistocene time and oscillations of the European continent during it. The Curator has been so much occupied in the performance of administrative duties that he has had no time for research work during the year.

An article by Mr. George R. Wieland of Yale University entitled "Further Notes on Ozarkian Seaweeds and Oölites,"

Publications

based upon specimens which have been presented to the department, was published as pp. 237-260 and plates XIV-XIX of Volume XXXIII of the Museum *Bulletin*. The Curator has begun work on a catalogue of the meteorites in the Museum's collection which is to be offered for publication in the *Bulletin*.

Mr. Arthur Briesemeister, cartographer, draftsman and modeler, has been released from the department for lack of

Changes in Staff

funds to continue the kind of work upon which he was engaged. Mr. Briesemeister is an exceptionally skilful and competent workman and his

departure is a distinct loss to the work of the department and the Museum. While with the department, his principal task was the preparation, under the direction of Dr. James Douglas and the Curator, of the models illustrating the Copper Queen Mine at Bisbee, Arizona.

MINERALS

DEPARTMENT OF MINERALOGY

L. P. GRATACAP, Curator

The important acquisitions in the Department of Mineralogy have not been limited to very striking or scenic specimens. The opportunities of obtaining such specimens do not occur as frequently as they once did, and, in the case of phenomenal mineralogical developments, the prices now attain almost prohibitive limits. The more rare, the new and the obscure species of minerals are not usually conspicuous for beauty, but their acquisition is always desirable. The Bruce Fund and money provided in a general appropriation, however, have enabled the department to secure 100 admirable specimens, and these additions, with gifts and exchanges, bring the contents of the collection up to nearly 19,000 specimens, a really impressive total.

Among the additions, a series of minerals from Greenland and Iceland; some interesting European material, obtained by exchange with Professor W. Vernadsky of Petrograd; native Bismuth from Australia, Gold specimens of various provenance, Zeolites from New Jersey, Diopside from southwestern Africa, crystallized Cuprodescloizite and Azurite from Bisbee, Arizona, Pyroxmangite from North Carolina, Aurichalcite from New Mexico, Betafite and Vesuvianite (Wiluite) are perhaps preëminent, though this selection does not do justice to the variety and number of the other accessions. Mr. P. J. Oettinger, a retired mining engineer, presented to the department his collection of ores, consisting of 1,363 specimens, largely Mexican in origin. Such a collection might form eventually the nucleus of an economic cabinet illustrating ore bodies and ore occurrences.

A significant illustration of the wealth of the mineral collection is afforded in the satisfactory response the department was able to make to the request of the United States Geological Survey for small pieces of mineral species not available at Washington, to be used in exhaustive determination of the refractive indices of all known individualized mineral compounds.

No new exhibitions have been made, except such as result from the incorporation of new specimens in the exhibited series. It would seem that a very attractive feature might be added to the Hall of Minerals in the preparation of mineral groups illustrating the mineral-associations of classic American localities, and also color-maps to be attached to the pillars, showing the mineral resources of the separate states.

The study collection of the department is practically the entire collection itself as exhibited. There has as yet never arisen the need of a separate assemblage. There has been no expedition or field work and no research or publication, though the design of illustrating and describing Mineral Localities in the United States has not been abandoned.

EXISTING INVERTEBRATES

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

HENRY EDWARD CRAMPTON, Curator

Owing to many favorable circumstances, the past year has been one of unusual activity and profit. Of chief interest and importance is the survey of Porto Rico, conducted under the auspices of the New York Academy of Sciences, in which the department is coöperating and which is designed to extend over a period of five years. In January, Curator Crampton was engaged in a reconnaissance of Porto Rico, during which he visited the several environmental regions of the island, incidentally obtaining interesting material from certain limestone caverns. In March, Dr. F. E. Lutz, through the courtesy of Dr. N. L. Britton of the New York Botanical Garden, was a member of the party which explored the islands of Mona and Desecheo,



DEPARTMENT OF INVERTEBRATE ZOOLOGY
LIFE-SIZED MODEL OF THE PORTUGUESE MAN-OF-WAR

as well as portions of the Sierra de Luquillo. During the summer, Mr. Roy W. Miner investigated the marine life of the shores and shallow waters, especially in and about San Juan Harbor. Also, during the summer, Mr. F. E. Watson and Mr. H. G. Barber carried on entomological studies in characteristic localities. The fruits of these expeditions in Porto Rico during the year number more than 22,000 specimens, which will enable the department to extend materially its general studies upon the American fauna of invertebrates.

Curator Gratacap has completed the time-consuming and laborious work of installing the shell collections in the new **Shell Collections** Hall of Mollusca, which has been opened to the public. The novel methods of display, new labeling and the introduction of hitherto unexhibited collections mark an epoch in the history of this division of invertebrates in the Museum. Among the most important accessions are a series of Mediterranean mollusks, shell and animal, clusters of the Coon-oyster (*O. cristata*) on mangrove roots from Florida, which were presented by Mr. and Mrs. Frederick F. Hunt, a model showing lamelli-branch anatomy, and a collection of marine univalves presented by Mrs. W. R. Grace. Curator Gratacap has taken up the assemblage of a systematic study collection apart from the systematized general exhibition series; this task involves the overhauling of all the accessions for the past ten or twelve years, with a view to arranging the material not needed for exhibition in the drawers under the flat table-cases.

Notable progress has been made in the construction of the Nahant Tide Pool Group and of the Bryozoa Group, under the **Invertebrates in General** supervision of Mr. Miner. Like the groups already completed, these will give faithful presentations of the organisms existing in certain characteristic ecological situations that are distinctive. A life-sized model in glass of *Physalia* has been placed on exhibition in a special case, where it attracts considerable attention. Many other models have been made for this and other departments, and the study collections have been

amplified especially through the field work in Porto Rico, as well as through Mr. Miner's expedition in Dominica and other islands of the Lesser Antilles. A thousand specimens were secured in California and Colorado by Mr. D. M. Fisk, who later returned to his work in the department as Assistant. Professor Treadwell secured many specimens of annulates in Florida and the Bahamas, while Dr. Hussakof and Mr. R. C. Murphy donated material secured by them in Florida and South Georgia Island respectively.

The work on insects and spiders has developed with unusual success during the past year, mainly through the expeditions to Porto Rico made by Dr. Lutz, Curator **Insects and Spiders** Crampton and Messrs. Watson and Barber, as noted earlier. Mr. Mutchler and Mr. Watson also devoted several weeks to investigations in northern Florida, which, like many other regions bordering on the Gulf of Mexico and the Caribbean Sea, must be fully known in order to gain the best results from the study of Porto Rico or of any other element of the Antillean Chain.

The untimely death of Mr. John A. Grossbeck, in April, deprived the department of a valuable and well-trained assistant, and entomology of a noted representative. **Changes in Staff** His work in the way of reducing the accumulated mass of specimens was later taken up by Mr. F. E. Watson, appointed Assistant in September. The engagement of Mr. W. T. M. Forbes for two months' work on insects and that of Mr. Nathan Banks for a month's study and arrangement of our West Indian spiders have been particularly profitable to the department.

A notable recent accession is the collection obtained by purchase from Mr. R. F. Pearsall, which includes about 15,000 **Accessions** specimens largely of Geometrid moths; this, together with the Geometrid collection given several years ago by the late Mr. Grossbeck, puts us in an enviable position with respect to this group. Another important accession is a series of some 2,000 species of beetles hitherto unrepresented in our collections, purchased from Mr. C. W. Leng. Valuable gifts of insects have also been received

from Mr. E. D. Harris (tiger-beetles), Mr. B. Preston Clark (moths), and Professor T. D. A. Cockerell (bees). Professor Cockerell has also deposited with us types and paratypes of a number of his species.

Messrs. Leng and Mutchler have published their catalogue of West Indian Coleoptera, which will form a basis from which to work upon this interesting fauna, and Mr. H. G. Barber has prepared a comprehensive paper on the Hemiptera of Florida, which has been published. Dr. Lutz has nearly ready for press an analysis of the distribution of spiders in the Greater Antilles; Mr. Watson has nearly finished the editing and completion of a paper on the Lepidoptera of Florida which was gotten well under way by the late Mr. Grossbeck; and Dr. William Barnes of Decatur, Ill., has undertaken the completion of Mr. Beutenmüller's monograph on the Catocala.

RECENT AND EXTINCT FISHES,
EXISTING REPTILES AND BATRACHIANS

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

BASHFORD DEAN, Curator Emeritus; LOUIS HUSSAKOF, Curator of Ichthyology
MARY CYNTHIA DICKERSON, Associate Curator of Herpetology

At the beginning of the year, the curatorship of the department, left vacant through the retirement of Professor Dean with the title of Curator Emeritus, was filled by the appointment of Acting Curator Hussakof as Curator of Ichthyology, the division of Herpetology being placed in immediate charge of Miss Mary Cynthia Dickerson, who was appointed Associate Curator of Herpetology.

FISHES

The past year was an unusually successful one in the preparation of material for exhibition and in the acquisition of valuable specimens and small collections, for many of which we are indebted, as in former years, to the generosity of Mr. Cleveland H. Dodge. Among the chief

**Accessions and
Acknowledgments**

accessions may be mentioned a collection of 265 sharks and other fishes from Japan, including some extremely rare forms, brought together in the course of a number of years by the well-known naturalist, Mr. Alan Owston, of Yokohama; a small collection of freshwater fishes from Ecuador, and 30 fossil sharks and *Arthrodires* collected by the Curator during a fortnight's field work in Ohio. We are indebted, also, as in previous years, to the New York Zoölogical Society for the gift of a large number of fishes, through the New York Aquarium and the New York Zoölogical Park.

Early in the summer the department sent a field party to the west coast of Florida for the capture of a devilfish. This is

Devilfish Expedition

the hugest of all rays and is very poorly represented in museums. The expedition spent three weeks in the field and secured two specimens, the larger one eleven feet wide. Plaster molds of the fish were made in the field and the necessary studies were obtained. The specimens are now being prepared for exhibition. The dangerous work of harpooning the fishes is to be credited to Mr. Russell J. Coles, of Danville, Va., an amateur ichthyologist, who was in charge of the harpooning party. The department also participated in the scientific survey of Porto Rico arranged by the New York Academy of Sciences, Assistant Curator Nichols spending a part of July and August in Porto Rico in collecting and studying the fishes.

In regard to the exhibits of the department, the outstanding event was the completion of the Deep-sea Fish Group, a

Deep-sea Group and Other Exhibits

group on a novel principle attempted for the first time in a museum. It represents ten typical deep-sea fishes as they are supposed to appear in the darkness of the profound depths, lit up only by their phosphorescent organs.

In the general exhibit of fishes, the main effort was directed to the preparation of models of sharks and rays. The aim is to illustrate each of the principal families of these fishes by one or more specimens modeled and painted as true to life as possible. The case devoted to the skates and rays has just been completed, and work on the sharks is in progress. Owing



DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY
THE GAR PIKE GROUP



to the limited capacity of the hall temporarily assigned to the exhibition of fishes, improvements must consist chiefly in the replacing of old and poorly prepared fishes with specimens modeled or mounted by approved modern methods.

The identification and cataloguing of new material and of the study collections have gone on apace. A number of

Study Collections and Researches researches are in progress, and several papers relating to these will shortly be ready for press. Curator Hussakof has continued his investigations on the extinct sharks known as *Pleuracanthus*, on the *Arthrodire*s and on lungfishes. Mr. Nichols has in preparation a paper on the fishes which he collected during the summer in Porto Rico. In addition, a number of short articles were published during the year, including seven papers in the *Bulletin*.

Considerable progress has been made on the bibliography of fishes, which is in preparation by the department, and one section, including titles of all papers prior to 1800, is ready for printing. This important and extensive

Bibliography of Fishes work was begun by Professor Bashford Dean twenty years ago and has been carried on by him and Dr. Hussakof during the past three years with a view to its publication. It now consists of more than 40,000 titles. Since Professor Dean retired from active work in the department, the bibliography has been continued by Dr. Hussakof and more recently by Dr. Charles R. Eastman, and has been carried on through the research and publication fund voted to Professor Dean by the Trustees.

REPTILES AND BATRACHIANS

The new accessions in herpetology number 144 reptiles and 36 amphibians. They include the valuable specimens secured

Accessions on the Roosevelt South American Expedition and on the Porto Rico Survey and a purchase to supply genera much needed for comparison. Also valuable material has come to hand through the courtesy of the New York Zoölogical Society.

The most important work in exhibition in herpetology for 1914 has been the completion of the "Toad Group" or "May Group," one of the results of several years of field and laboratory study by the Associate Curator before coming to the American Museum. This group is the fourth of the panoramic habitat groups representing North American reptiles and amphibians, and the largest and most complex yet attempted by the department. It certainly reveals the accurate and realistic effects to be obtained by the use of wax casts in museum exhibition. There is a wild apple tree in blossom in the group; there are unfolding leaves of blueberry bushes, of maple, oak, shadbush and hornbeam; unrolling leaves of fern; hellebore and skunk cabbage are on the ground, where also blossom in profusion the common wild flowers of May; there are more than fifty animal forms in the group, including two species of tree frogs, three of frogs, two of toads, two of salamanders, and a few snakes and turtles; and all these plants and animals are of wax, cast from the life and colored from the life. The group answers the question so often asked as to the difference between frogs and toads and between frogs', toads' and salamanders' eggs, and is the first attempt to represent the gelatinous egg masses and "polywogs" at various stages of development. The background is a notable canvas by Hobart Nichols.

The fifth North American Reptile Group is planned to show some of the reptile and amphibian life of Florida.

Work on the study collection has carried on what was begun in the latter part of 1913, i. e., the renumbering of the entire collection so that each specimen bears its own individual number, and its arrangement in systematic order. The collections of lizards, snakes, turtles and crocodiles (some 5,000 specimens) are now renumbered. A catalogue has been made covering the new numbering, and the new numbering has been entered in the original accession book to prevent any confusion which might possibly arise in later years from this renumbering of specimens. Also a large part of the unidentified material has been identified in connection with this work.



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

MEMBERS OF THE ROOSEVELT EXPEDITION TO SOUTH AMERICA

From left to right, Mr. George K. Cherrie, Colonel Theodore Roosevelt, Mr. Leo E. Miller

The work has continued also on the bibliography of reptiles and on the new species catalogue started in 1913.

MAMMALS AND BIRDS

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

J. A. ALLEN, Curator

The accessions during 1914 numbered about 760 specimens of mammals and 4,400 of birds, received as follows: by gift, 160 mammals and 254 birds; by exchange, 15 mammals and 120 birds; by purchase, 80 mammals and 485 birds; through Museum expeditions, 504 mammals and 3,550 birds. The specimens secured by purchase and through Museum expeditions were nearly all collected in South America. The greater part of these were obtained on the Roosevelt Expedition to Paraguay and southwestern Brazil, through the generosity of Colonel Theodore Roosevelt. Many specimens have been received in the flesh, as usual, from the New York Zoölogical Society and from the Department of Parks. A skeleton of the rare Pigmy Right Whale (*Neobalæna marginata*) was acquired by purchase.

The shipment to the Museum of the large collections made by the Congo Expedition has been delayed by the interruption of transportation facilities incident to the European war. A recent letter from Mr. Lang gives assurance of their present safe condition, and states that a part of the collections has already been sent down from Stanleyville to Matadi.

Mr. H. E. Anthony, an assistant in this department, spent the months of February and March in the Canal Zone at Panama collecting birds and mammals, with Hon. George Shiras, 3d, who bore the expense of the expedition. The material obtained was practically the first of any importance received by the Museum from this part of Panama.

The collection of birds and mammals made on the Roosevelt Expedition to Paraguay and southwestern Brazil, by Mr. George K. Cherrie and Mr. Leo E. Miller for the Museum, form

the most important addition to the resources of this department received during the year. They comprise about 1,375 birds and about 450 mammals, and include a number of forms new to science. They are all from regions not previously represented in the Museum.

In October, Mr. Leo E. Miller, with Mr. Howarth S. Boyle as assistant, was sent to northwestern Colombia to connect the previous work of the Museum's expeditions in western Colombia with that of the Biological Survey on the Isthmus of Panama. Mr. Miller will later make explorations for the Museum in Peru and western Brazil, the funds for which and for the work in northwestern Colombia having been generously provided by Colonel Roosevelt and supplemented by funds furnished by Mr. Cleveland H. Dodge. This work is a continuation of the explorations conducted under the direction of Curator Chapman.

Collections on Deposit The Brewster-Sanford Collection of Birds, on deposit at the Museum, has been increased during the year by the addition of some 3,000 specimens, collected mostly along the coast of Peru and Chile, and consisting largely of Tubinares (petrels, albatrosses, etc.).

Dr. Jonathan Dwight has added about 5,000 specimens to his previously large deposit collection, numbering all together about 41,000 specimens, mostly from North America but including many from Europe and Asia. The additions made during the past year include the important McGregor collection of finches, numbering about 2,500 specimens. These two collections are available for reference in the ornithological work of the department, thus greatly extending our facilities for research work.

Installations and New Exhibits New installations include a Beaver Group and a Little Chief Hare Group. The Elk Group has been reassembled, and a Mountain Sheep Group is in preparation. The Fur Seal Group is being reassembled, with a scenic background. A White Swan Group has been installed in the Bird Gallery; a few individual birds and many new labels have been added in



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY
FINISHED CORNER OF THE AFRICAN HALL MODEL

the general exhibition collection of birds, and many new labels have been installed in the mammal hall. The synoptic collection of mammals has practically been completed, but there still remain a few special exhibits to be added.

Considerable progress has been made in the rearrangement

Study Collections

of the research collection of mammals, including both the skins and the skeletons. The work is still delayed by lack of proper storage facilities.

Curator Chapman has devoted most of the year to the identification of the birds received during the last four years from South America, a large part of

Research Work and Publications

which have now been critically determined. As by-products of this work he has published four papers in the 1914 volume of the *Bulletin*, describing some 60 new forms, with often important revisionary comment on the various groups to which the new forms are related. Professor T. D. A. Cockerell, of the University of Colorado, has an article in the *Bulletin* on the Auditory Ossicles of American Rodents, based mainly on material loaned to him for the purpose by the American Museum. Dr. D. G. Elliot has contributed two short articles to the *Bulletin* on various American Primates, based on Museum material.

Assistant Curator Andrews' memoir on the California Gray Whale appeared early in the year in the Museum *Memoirs*. Mr. Andrews has devoted a large part of the present year to the preparation of a monograph, for the *Memoirs*, on the Sei Whale (*Balenoptera borealis*), which is now nearly ready for the press. The Curator has continued his studies of South American mammals, on which he has published five papers during the year in the *Bulletin*, the first being a monographic revision of the genus *Microsciurus*, the others, respectively, on new mammals from Ecuador, and new South American bats, squirrels and monkeys. He has also published a report in the *Bulletin* on the Rainsford Collection of Mammals from British East Africa, has completed for publication a monograph of the South American Scuiridæ, and has nearly finished a final report on the mammals of Colombia and another on the mammals of Ecuador.

EXTINCT VERTEBRATES

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

HENRY FAIRFIELD OSBORN, Curator Emeritus; W. D. MATTHEW, Curator

The Broom Collection of South African Permian Reptiles was purchased for the Museum through the Jesup Fund. This splendid collection, rivaled only by that in the British Museum, includes more than 200 specimens, mostly skulls and skeletons, of these very ancient reptiles, comparing in scientific and exhibition value with the fine collections from the Texas Permian previously acquired by the Museum. Its acquisition constitutes a second great step toward a complete representation of the reptiles of the Palæozoic Era.

**Broom
Collection**

Dr. J. Leon Williams has placed on permanent deposit his unique and valuable collection illustrating the crania of paleolithic man of Europe. It consists of 116 specimens including fragments of crania, jaws and implements. It has an added interest because of its relation to Professor Osborn's forthcoming book on "Men of the Old Stone Age."

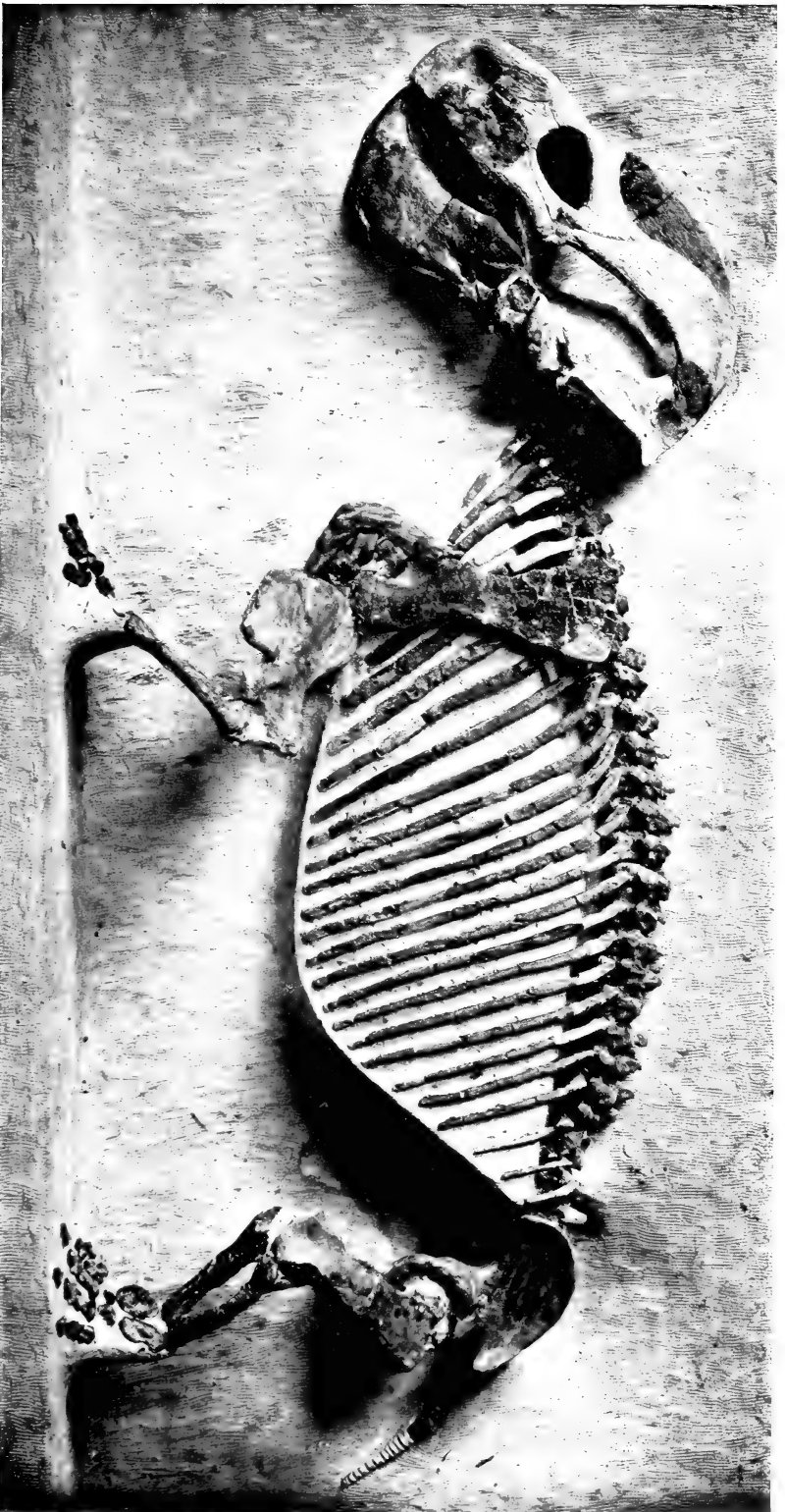
**Collection
on Deposit**

A valuable instalment of the series of skulls and skeletons from the asphalt beds near Los Angeles has been received from the University of California. It consists of complete skeletons of Sabre-tooth Tiger and Wolf and skulls of the Giant Lion and Extinct Horse.

Exchanges

The principal field work this year was in the Cretaceous formations of Alberta along the Red Deer River, under Mr. Barnum Brown. The success of previous seasons was surpassed this year, eight mountable skeletons and a number of skulls and parts of skeletons being secured. The collections obtained from this region in five years will enable us to represent all the principal dinosaurs of this fauna by complete skeletons. The preparation and mounting of so large a series of skeletons of gigantic animals is a long and difficult piece of work and will take some

**Field
Expeditions**



DEPARTMENT OF VERTEBRATE PALEONTOLOGY

ALMOST COMPLETE SKELETON OF A FOSSIL MAMMAL-LIKE REPTILE

One of the specimens of the Broom Collection purchased through the Jesup Fund

years to complete. Their installation will involve more exhibition space than is at present available.

The series of skeletons of the great "Clawed Ungulate" *Moropus* was increased by the taking up of prospects which had been located but not collected last year. From this series, collected by Mr. Albert Thomson, it is intended to select, when the material has been completely prepared, a set of three or four, representing male, female and juvenile stages, as part of the group of fossil skeletons planned to occupy the center of the Tertiary Mammal Hall.

A series of skulls and partial skeletons of the South African Permian reptiles have been placed on exhibition, and three skeletons of *Moschops*, one of the largest and most remarkable of these very ancient reptiles, are being prepared for a group mount.

Preparation and mounting have been vigorously pressed upon the large series of Cretaceous dinosaurs obtained by recent expeditions. The mounting of one of the skeletons for the *Tyrannosaurus* Group is well-nigh completed and will afford a magnificent illustration of the gigantic Carnivorous dinosaurs of the Cretaceous Period. Owing to lack of space in the Dinosaur Hall, this skeleton will for the present be placed in the Pleistocene Mammal Hall. The skeleton with skin of the new Duck-bill Dinosaur *Corythosaurus* is also well towards completion; this mount has involved mechanical problems of peculiar difficulty, owing to the necessity of exhibiting the skin of both sides of the animal, and the extreme fragility and shattered condition of certain parts of the specimen, combined with the great size and weight of the entire block. Two fine skulls, believed to represent male and female, of the primitive Horned Dinosaur *Ceratops* have been placed on exhibition. A series of partial skeletons of the Armored Dinosaur *Ankylosaurus* have been prepared.

In contrast with the preparation of dinosaur specimens, whose difficulties in technique arise chiefly from the gigantic size of the skeletons, is the very skilful preparation work done by Mr. Anderson upon the earbones and other minute and

delicate structures of the skull in Eocene lemuroids. This work, executed under a microscope, has added materially to the evidence regarding the evolution of the Primates.

A number of new or little-known specimens from the Eocene and Paleocene formations have been prepared, chiefly for the study collections.

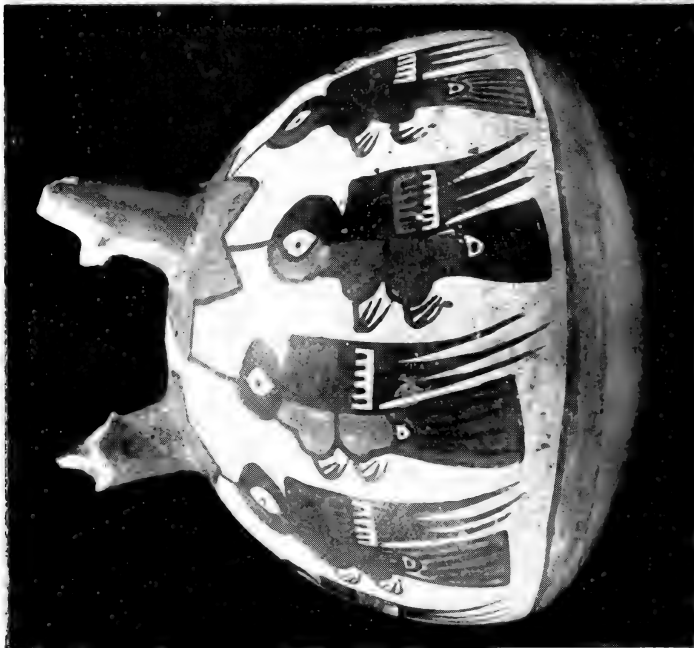
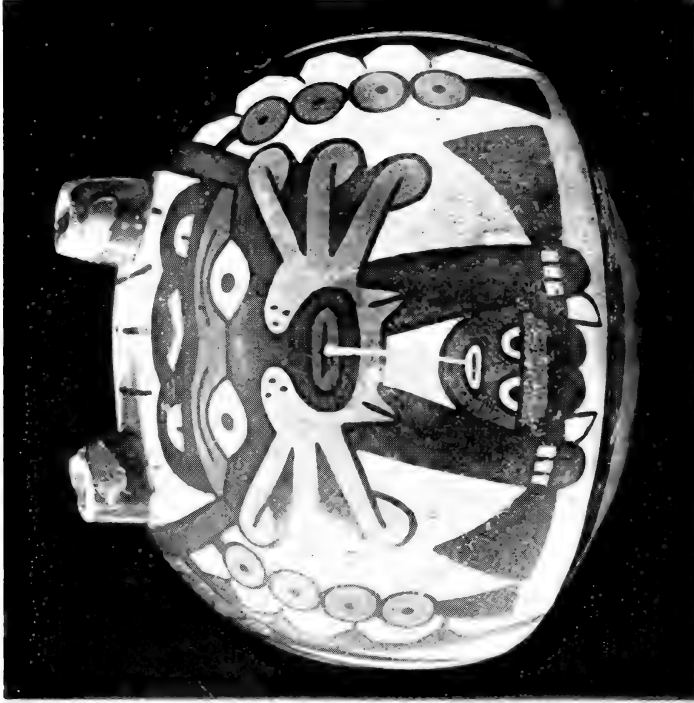
Considerable progress has been made in the reinstallation of the exhibits in the Tertiary Mammal Hall; the Amblypoda, Carnivora and Creodonta, Oreodontidæ and Ruminantia alcoves are partly arranged and several additions have been made to the skulls and skeletons therein displayed. A skeleton and several skulls of *Moropus* and skeletons of the Sabre-tooth Tiger and Extinct Wolf have been temporarily placed on exhibition pending an opportunity to mount them for permanent exhibits.

A skeleton of the Cuban Ground Sloth *Megalocnus* has been mounted for our exhibition series and a second skeleton of the same animal is now being mounted, destined for the Academy of Natural Sciences in Havana, in accord with the arrangements made through Dr. de la Torre for the division of the remarkable collection of Cuban fossil mammals obtained under the joint auspices of the two institutions.

An exhibit illustrating the most recent discoveries and remains pertaining to primitive man, his appearance, habits and ancestry has been arranged in the Hall of Fossil Mammals and has attracted great interest. The nucleus of this collection is a series of casts of the more important skulls of early man loaned by Dr. J. Leon Williams a year ago; it has been greatly expanded in connection with Professor Osborn's researches upon this subject.

Mr. Chubb has made some important additions to the exhibition series of skulls and skeletons of modern Equidæ; the Kiang skeleton is completed, a skeleton of Grant's Zebra is under way, and a number of skulls and other preparations have been added.

Evolution of the Horse Acknowledgments are due especially to Messrs. Frank K. Sturgis and Henry Fairfield Osborn for continued support of this phase of the department's work.



DEPARTMENT OF ANTHROLOGY
NAZCA POTTERY
Presented by Mr. A. D. Juilliard

The Eocene study collections have been in large part reinstalled, the smaller specimens being set in cotton in glass vials, relabeled, record numbers attached to specimen, vial and label, and arranged so as to secure considerable economy in space, greater security and more convenient order for study purposes. The cataloguing and card records of new collections, posting of publication records and arrangement of the zoölogical card catalogue have been continued as usual.

Study Collections The most important research work undertaken during the year has been by Professor Osborn upon primitive man. This research was assisted by Professor J. H. McGregor, by Dr. Gregory and other members of the department, and its results will be published in a forthcoming volume, entitled, "Men of the Old Stone Age."

Researches Professor Osborn has also continued the preparation of the Monograph of the Titanotheres with the assistance of Dr. Gregory and other members of the department.

Dr. Matthew and Mr. Granger have continued the revision of the Lower Eocene mammals. Dr. Matthew has made further studies upon the Cuban fossil Ground Sloths, Mr. Granger upon the Multituberculata and Dr. Gregory upon the Eocene Primates. Mr. Brown has studied and described a number of new or little-known dinosaurs from the Cretaceous of Alberta.

Publications The results of researches by Dr. Robert Broom, Mr. Brown, Mr. Granger, Mr. Albert Johannsen and Mr. W. J. Sinclair appear in twelve articles in the *Bulletin*.

EXISTING AND EXTINCT RACES OF MEN

DEPARTMENT OF ANTHROPOLOGY

CLARK WISSLER, Curator

Several unusually important collections were acquired during the year. Mr. A. D. Juilliard presented a large series of **Gifts** Peruvian pottery of the Nazca type, more than 400 pieces of the finest coloration known, all of which are now on exhibition in the South American Hall. Mr. George

C. Longley presented his Jamaica archæological collection now exhibited in the South American Hall. Among other important accessions may be noted an elaborate decoration of human bones from Tibet presented by Mrs. John Magee; a very old piece of beadwork from the Delaware Indians from Mr. Ogden Mills; a series of archæological specimens from Central America by Mr. R. H. Millward, and a large series of cliff ruin pottery purchased through contributions of Mr. Archer M. Huntington. The several field parties returned with the usual quota of specimens.

Mr. Minor C. Keith has generously deposited in the Museum his unequalled collection of pottery and stone carvings from Costa Rica. This collection comprises **Collections** more than 7,500 catalogued numbers, including **on Deposit** some 450 gold objects, and is being installed, so far as space permits, in the Mexican Hall. Inasmuch as the Museum possesses a very incomplete series from Costa Rica, the deposit of the Keith Collection is of special importance.

In pursuance of the policy that the activities of the American Museum of Natural History be devoted to primitive and uncivilized peoples and those of the Metropolitan Museum of Art to civilized peoples, the latter Museum has deposited with us its collection of Mexican stone figures and Peruvian pottery. These collections supplement the Mexican and Peruvian collections already possessed by the American Museum and materially strengthen our exhibition and study series.

In the exhibition halls the work of the year has been chiefly the refinement of exhibits. A new plan for the Jesup **Exhibition** North Pacific Hall was developed which allows for the expansion of the Eskimo and other units. The greater part of the South Sea Islands Hall was revised. A small model of an earth-lodge, an exact reproduction of one still standing at Fort Berthold, North Dakota, has been installed in the Plains Hall. A large Hopi Group for the Southwest Hall is nearly finished and progress has been made on the mural paintings for the North Pacific Hall. For the North American Halls a new tribal map was prepared giving



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DEPARTMENT OF ANTHROPOLOGY

CURING THE SICK

One of the murals by Mr. Will S. Taylor in the Northwest Coast Hall, illustrating a ceremonial of the
Tlingit Indians

the cultural classification of the several Indian tribes and by diagrams and index lists affording visitors a guide to the plans and details of the exhibits. For the European section of the Archæological Hall a series of casts and restorations of the ancient types of man is nearing completion.

During the year an unusually large number of students of design have made use of our Peruvian and North American collections, indicating a growing demand

**Coöperation with
Investigators**

for study material in primitive art. There has been a corresponding increase in the number of anthropologists using our collections; the most extensive studies by foreign anthropologists were those by Dr. Felix von Luschan, Dr. Sigmund Hatt, Dr. Bruno Oetteking and Mr. C. M. Barbeau. Several of these investigators examined very extensive series of ethnological specimens, giving an opportunity to test the efficiency of our new storage system. So far, it has satisfactorily met all reasonable demands. It remains now to put the archæological collections into an equally accessible form and to provide for the normal expansion to meet the future demands of students.

Among the researches of the departmental staff may be mentioned an analytic study of the technique and ornamentation

Research

of clothing in the Mississippi Basin as the basis for a general discussion of historical problems and methods of interpreting data on material arts, and a somewhat parallel study of the distributions of textile designs and pattern names by the Curator, and the study of fibers and processes as exhibited in Peruvian cloth by Assistant Curator Charles W. Mead and Mr. M. D. C. Crawford. The latter takes up the problem from an entirely new point of view and will for the first time enable us to form a definite idea as to the technique of Peruvian spinning and weaving.

In addition to these special studies the time of the research staff as a whole has been given to the prosecution of field

Expeditions

studies and the compilation of results. Curator Goddard was occupied with special studies of the Beaver and Apache languages and during the summer visited the Gila River band of Apache in Arizona where he

collected texts and phonographic records of songs, checked up several uncertain points in phonetics and collected a series of motion films of technological processes. He was accompanied by Mr. Howard McCormick who made sketches and studies for the proposed Apache Group.

Associate Curator Lowie visited the Shoshonean tribes of Nevada where he made a beginning in the systematic survey of these little-known tribes. With one possible exception there is no group of living Indians about which we have so few anthropological data as the Nevada Shoshone. During the remainder of the year, Dr. Lowie was chiefly concerned with an investigation of the ceremonies of the Crow Indians based upon data accumulated on previous visits to that tribe.

Assistant Curator Skinner spent part of the year in an investigation of the societies of the Plains-Ojibway and Plains-Cree, based upon former field data, and later visited the Iowa, Kansa and Eastern Dakota for new data on societies. Notwithstanding the historical importance of these Siouan tribes there was heretofore available little in the way of definite knowledge of their cultures; hence, the work of this season, though preliminary, makes a definite contribution.

Rev. G. L. Wilson of Minneapolis continued his investigations of the agriculture of the Mandan and Hidatsa Indians. This work has developed a problem of considerable practical importance in adapting the Mandan variety of maize to the tillable lands of the upper Missouri valley where the season is too short for the common varieties to mature. Mr. Wilson has been able to coöperate effectively with the United States Department of Agriculture and the University of Minnesota in these investigations, which promise to be of great economic importance in the Northwest.

Assistant Curator Spinden spent the first half of the year in archæological explorations in Guatemala and San Salvador.

Primitive Peoples of the Southwest The ruins at Seibal, Tikal, Ixkun, etc., were visited and several new stelæ discovered bearing important dates and inscriptions. A good beginning was made in the study of ceramic types for San Salvador. Since returning to the Museum, Dr. Spinden has given his time to the completion of

his studies in the arts and industries of the Rio Grande Pueblos.

Assistant Curator Nelson devoted the first half of the year to the compilation of his field data from the Galisteo ruins of New Mexico and the second half to vigorous excavations of new sites in the Galisteo Basin. Aside from greatly extending our knowledge of this group of ruins, this season's work has made the chronology of the sites clear and furnishes a definite point of departure for the analysis of adjoining areas.

The expenses of the expeditions of Dr. Goddard, Dr. Spinden and Mr. Nelson were met by contributions from Mr. Archer M. Huntington.

The Curator of the department has definitely organized a local archæological survey. Assistant Curator Skinner has well under way a surface survey of Long Island. Rev. A. R. Blackie and Mr. Leslie Spier excavated certain rock-shelters at Ardsley, New York. Dr. Lutz of the Department of Invertebrate Zoölogy and Assistant Curator Skinner of the Department of Anthropology made a brief survey of rock-shelters and certain sites on the Susquehanna River in the vicinity of Bloomsburg, Pennsylvania. Mr. Spier made a partial surface survey of the upper Delaware valley. On the invitation of Dr. C. C. Abbott, Assistant Curator Skinner, assisted by Messrs. Spier and Hoover, systematically trenched a typical area of the so-called yellow soil found on his estate at Trenton, New Jersey, in which curious traces of man have been found. These trenches yielded a surprisingly large series of implements similar to those described by Mr. Ernest Volk. Dr. Reeds of the Department of Geology and Invertebrate Palæontology made the geological survey of the site. All in all, this year's progress in the development of our local problems is encouraging.

Three contributions have been published in the *Anthropological Papers*.

ANATOMY AND PHYSIOLOGY

DEPARTMENT OF ANATOMY AND PHYSIOLOGY

RALPH W. TOWER, Curator

Notwithstanding the interruptions due to changes in the organization of the department, there has been steady progress in work which requires diligent and painstaking care.

Mr. Adolph Elwyn, for seven years an assistant in the department, resigned on August 31, to accept a position on the faculty of the Long Island Medical College. Mr. Elwyn became so highly successful in developing laboratory methods and technique that it is to be regretted that his services could no longer be retained for this institution. Mr. Clarence E. Halter was appointed on October first to fill the position of laboratory assistant.

Messrs. Johnstone and Cohn have prepared 109 skeletons, 818 skulls and 11 body skeletons, which include the complete skeletons of two whales, one camel and three giraffes. Some success has been obtained with new methods, and further experiments are still in progress. The newly equipped macerating room has worked greatly to the comfort and advantage of all concerned.

A series of 8 skull preparations, showing the development of the poison fangs in reptiles, has been completed and mounted ready for exhibition. The department has placed on exhibition in the Synoptic Hall its collections showing the comparative anatomy of the limb bones and a series illustrating the form and structure of the stomach.

PUBLIC HEALTH

DEPARTMENT OF PUBLIC HEALTH

CHARLES-EDWARD AMORY WINSLOW, Curator

The year has been devoted for the most part to the carrying out of our general plan for
Exhibit of a comprehensive exhibit illustrating
Insect-borne Disease the general subject of insect and animal carriers of disease.

The section of the exhibit dealing with bubonic plague is practically complete, the central feature being a very perfect

model of the Flea, the carrier of the plague bacillus from rat to rat and from rat to man. This model is 120 times natural size and was prepared by Mr. Ignaz Matausch of the Department of Preparation. The history of the bubonic plague is illustrated by a series of historical maps and photographs, and the principal species of rats and squirrels which harbor the plague bacillus are shown, with models illustrating modern methods of controlling them. Material has been obtained for a habitat group of the California Ground Squirrel, the most important carrier of the plague bacillus in this country, and this exhibit is now almost ready to install.

The section of the exhibit dealing with the House Fly is nearly complete, including exhibits illustrating the life history of the insect and its breeding places and the methods by which city and country can be kept relatively free from the fly nuisance.

A series of interesting insects and other arthropods, carriers of tropical diseases, have been placed on exhibition, among others the tsetse flies, carriers of sleeping sickness; the ticks, responsible for the spread of African tick fever and relapsing fever, and the bugs which carry Chagres fever in Brazil. For these specimens we are indebted to the British Museum, the United States Public Health Service, the Division of Entomology in the United States Department of Agriculture, the Texas Agricultural College and the Instituto Oswaldo Cruz of Rio de Janeiro, Brazil.

We have made a beginning with the section of the exhibit dealing with the mosquito and have installed among other things a series of pictures of Reed, Carroll, Lazear and Agramonte, the discoverers of the mosquito transmission of yellow fever, a map showing the distribution of malaria in its relation to river valleys in Arkansas and other models and maps dealing with mosquito breeding and mosquito control.

During the autumn it seemed to the department that it might be of interest to prepare an exhibit dealing with military hygiene to illustrate the terrible toll taken by disease in military campaigns in the past and the methods used for guarding armies against such mishaps at the present day. The case, now

**Exhibit of
Military Hygiene**

complete, shows how the water supply of the camp is purified, how the waste is disposed of, how the soldiers in the tropics are protected against insect-borne disease and how the sick are cared for in the Red Cross hospitals. The daily dietary of the American soldier is illustrated, and its energy value compared with that of other armies, while a series of actual specimens and diagrams shows how typhoid vaccine is prepared and illustrates the striking results obtained by its use.

One of the most gratifying events of the year has been the presentation to the Museum for installation in the Hall of Public Health of a replica in bronze of the famous **Bust of Pasteur** DuBois bust of Pasteur, which we owe to the courtesy of M. Vallery-Radot, the son-in-law of Pasteur, Dr. E. Roux, Director of the Pasteur Institute, Paris, and Professor A. Calmette, Director of the Pasteur Institute at Lille. This bust now occupies a very fitting place at the entrance of our hall.

The activities of the museum and distributing center for living bacteria have continued as heretofore. The laboratory **Bacteriological Museum** has 670 different strains under cultivation. During the year ending December 1, 1914, we sent out 3,283 cultures, making a total of 7,812 which have been distributed since the opening of the laboratory. Over 300 different institutions in America and Europe are now correspondents of our laboratory, and the importance of the work is greatly increased by the setback which the scientific work in similar institutions in Europe is experiencing. The continuance of the work of the bacteriological museum and distributing center during the last six months of the year was made possible by generous gifts from Mr. Felix M. Warburg and Dr. Walter B. James.

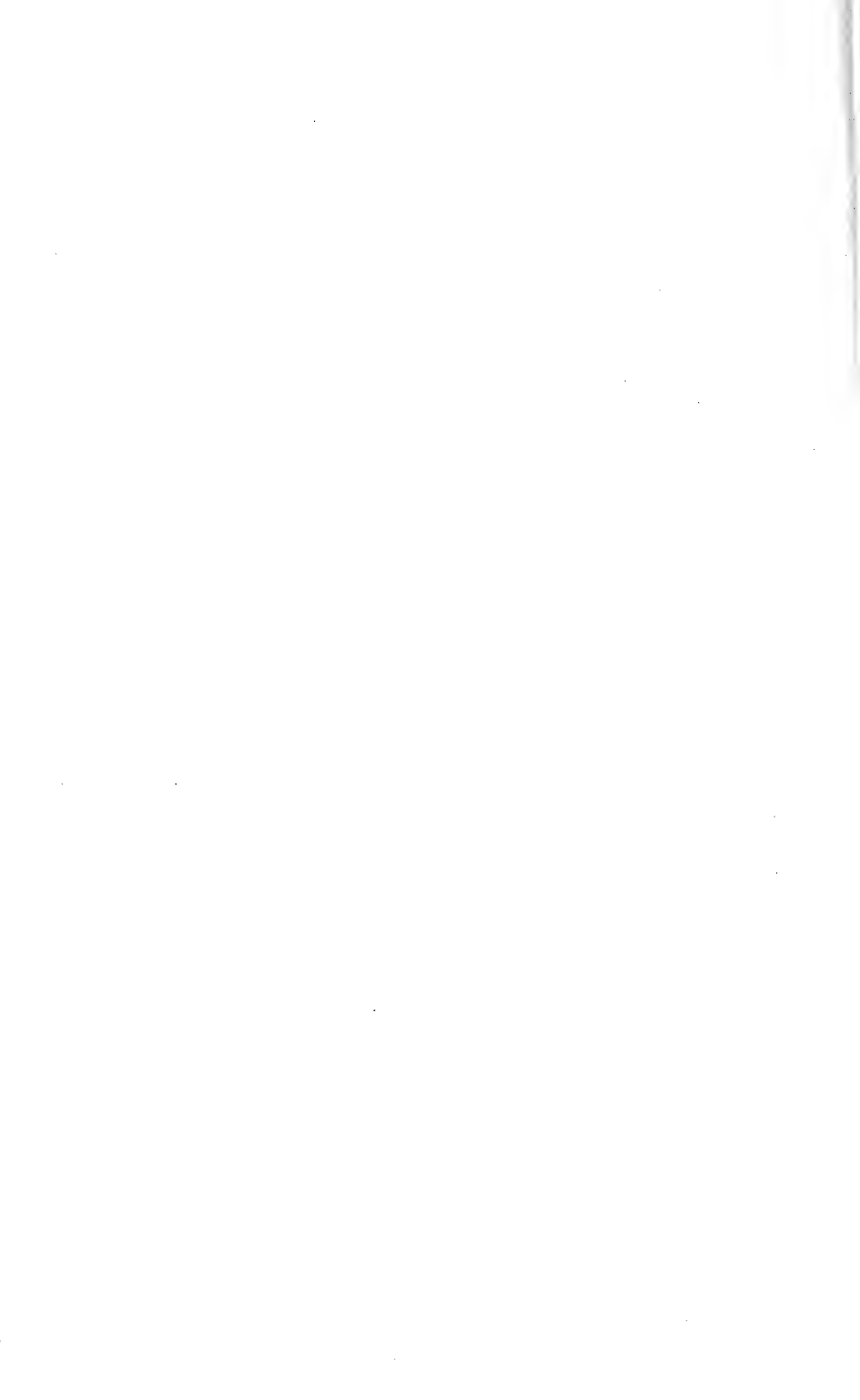
In addition to the preparation of the traveling exhibit circulated by the Department of Public Education, the Department of Public Health has furnished living **Extension Work in the High Schools** cultures of non-pathogenic bacteria to many of the high schools and has supplied these schools with bacteriological culture media for their regular class work.



DEPARTMENT OF PUBLIC HEALTH

BUST OF PASTEUR

Presented by Mr. Vallery-Radot, Dr. E. Roux and Dr. A. Calmette



During the summer the department was again able to co-operate with the New York Association for Improving the Condition of the Poor in its study of the relation of flies and mosquitoes to public health in New York City.

Outside Activities Mr. David Greenberg, who for a year and a half was discharging with unusual ability the duties of assistant in immediate charge of the preparation of exhibition material, resigned during this summer to undertake public educational work with the New York State Department of Health, and his place has been taken by Mr. S. D. Kramer, S. B.

Changes in Staff

WOODS AND FORESTRY

DEPARTMENT OF WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, Curator

To increase the usefulness of the department of trees and forestry to the Museum's members and to the many inquirers who come for information, a study collection, including foreign as well as domestic woods, was begun in 1913. This collection has been added to during the past year until it totals 1,068 specimens, labeled and catalogued, and 461 species. The Jesup Collection contains North American woods north of Mexico. The department with these woods alone found itself unable to meet the demands made upon it. Botanists are interested in the trees growing in certain life zones which are independent of political boundaries; foresters working for forestry firms explore and report on woodlands in the West Indies, Central America or South America, as well as in the United States; lumber merchants deal in definite kinds of woods for definite markets and frequently handle along with the native woods various exotic woods which meet the same requirements in technical qualities and price; and to wood-users in general, woods have no country; all are interesting and valuable equally, if fitted to the given need. The new study collection of hand specimens supplements the Jesup collection and is

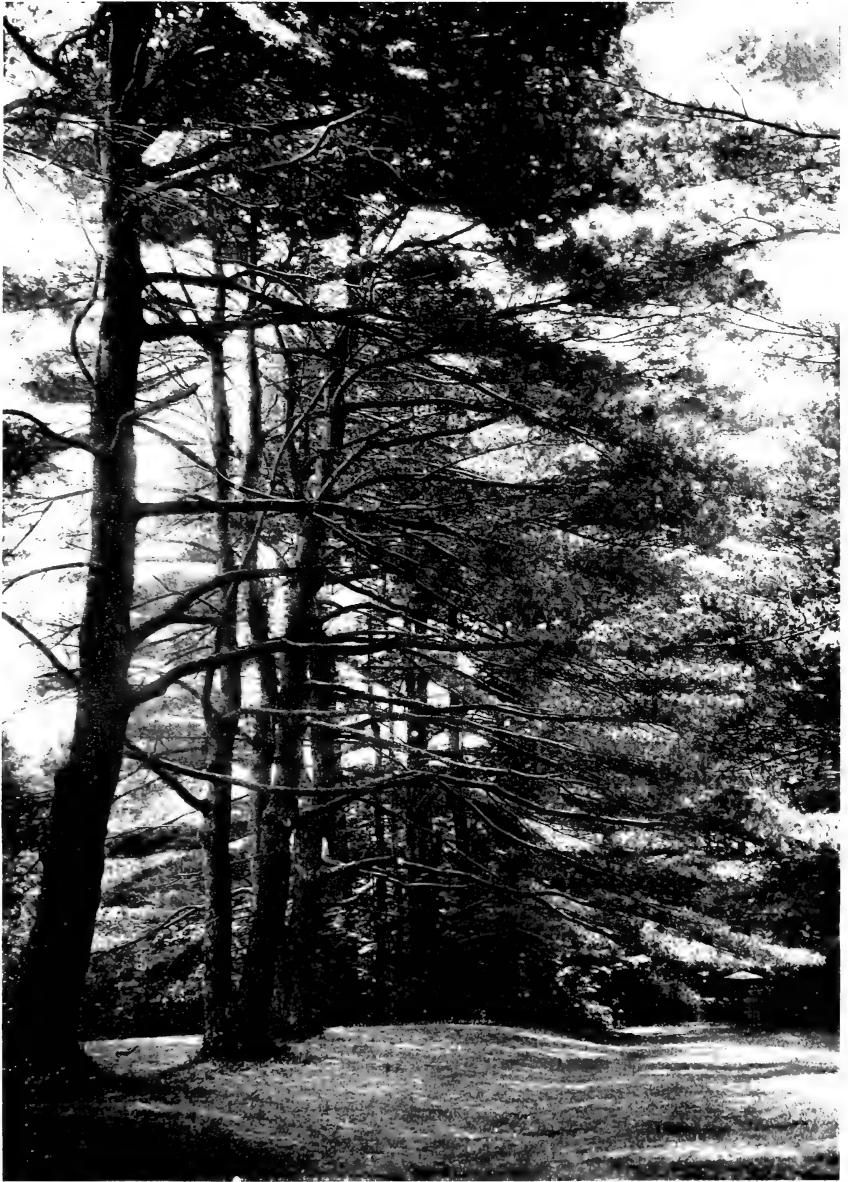
Study Collections

directly in line with the original plans of Mr. Jesup. It has already been of great service in the purpose for which it is being brought together, namely, to serve as a standard for the use of architect, lumber dealer, inventor and teacher in the work of comparison and identification of the various woods of the world as they come to hand.

Because of the continued lack of a sufficient fund, another year has passed with the order not placed for the mural decorations planned for the hall, and no work has been done on the various models proposed for the alcoves of the hall, to constitute educational exhibits on such subjects as forest fires, denudation of watersheds, erosion and floods. No other institution in America has a greater opportunity to create an enlightened sentiment on questions of conservation than has the American Museum, already an attractive center for the visits of the million children of New York City.

Considerable work has been done in preparation of additional descriptive labels for the Jesup Collection. Material has been obtained from the field and studies made for some twenty-five new wax models of tree leaves, flowers and fruits. A revision and enlargement of the *Handbook, Trees and Forestry*, is awaiting sufficient funds for publication. During the summer it was the pleasure of the Museum to extend the hospitality of the institution to Dr. H. R. Francis, assistant professor of landscape engineering in the New York State College of Forestry at Syracuse, while he was carrying on, in coöperation with the Tree Planting Association of New York, a street tree survey of the Borough of Manhattan.

Several valuable gifts of wood have been made to the department during the year. Among them are specimens of Philippine mahogany (*Shorea negrosensis*), a wood that is becoming increasingly important in this country as a furniture wood; 20 specimens of rare South African woods from Mount Silinda, the only forested region of South Rhodesia; several pieces of *Ochroma lagopus* from South America, one of the lightest woods known, used for life belts and life boats; and 87 specimens of Mexican woods from Oaxaca, Mexico. We



DEPARTMENT OF WOODS AND FORESTRY

WHITE PINES

On the estate of the late Morris K. Jesup at Lenox, Mass.



are also indebted to the United States Forest Service for a collection of 71 hand specimens of native woods.

In addition to the department work, the editorship of the *American Museum Journal* has been carried on during the year.

THE LIBRARY

DEPARTMENT OF BOOKS AND PUBLICATIONS

RALPH W. TOWER, Curator

The year just passed marks another period of growth and progress in the library, for not only has it been possible to add many important and valuable works to the collections but opportunity has been found for the reclassification and recataloguing of the books relating to evolution, physiology, anatomy and anthropology. In anthropology it was considered necessary to adopt a classification which would more thoroughly represent the methods and ideas of the scientist working in that subject, and the result has been the evolution and adoption of an eminently satisfactory schedule in which the ordinary political geographical divisions have been replaced by geographical culture areas.

The total number of books and pamphlets in the Museum Library, including the Osborn Library of Vertebrate Palæontology, is 65,000.

The most important and also the most valuable accessions have again been made by the patronage of Mr. Anson W. Hard, whose interest in the library will always be reflected in the many rare and classical treatises received through his generosity. The following are especially acknowledged: *Exploration Scientifique de l'Algérie pendant les Années 1840-1842*, a set of thirty-eight volumes which is wholly out of print and of extreme rarity; *Illustrations of Diurnal Lepidoptera*, 1862-1878, by W. C. Hewitson, a treatise essential to the work of all lepidopterologists; *Trees of Great Britain and Ireland*, 1913, by Elwes and Henry, seven volumes privately printed and admirably illustrated; *Voyage Pittoresque et Historique au Brésil depuis 1816 jusqu'en 1831, 1834-1839*, by J. B. Debret, three folio volumes illustrating the manners and customs of the people; *Voyage to New Guinea and the Moluccas*

from *Balambangan* during the years 1774-1776, 1779, by Thomas Forrest; *Delectus Animalium Articulatorum*, 1830, by Spix and Martius, an important classic of much interest to entomologists; *Die Infusionsthierchen*, 1838, and *Mikrogeologie*, 1854, by C. G. Ehrenberg, two folio volumes containing probably the earliest authoritative description of the structure of the unicellular organisms. The Carnegie Institution of Washington has added our name to its omnia list and has supplied a complete series of its publications which contain many volumes of interest and importance in the realm of natural history.

The library has continued to extend its usefulness through the system of inter-library loans and in turn has also been the recipient of similar favors from many institutions. It has been our privilege to extend the courtesy of loans to the largest institutions of learning from London to San Francisco. Within the city of New York these courtesies have been most extensively used between the libraries of Columbia University, New York University, Brooklyn Museum and the American Museum of Natural History. The New York Public Library has also indicated its intentions in a provisional and limited way to honor our requests for the loan of books from its restricted lists.

Early in January Miss R. E. Remmey, a recent graduate of Smith College, was appointed to the Library staff to fill the position made vacant by the transfer of Mr. M. F. Hanly to the department of administration. Miss D. B. Hepburn, a graduate of Smith College and the New York Public Library School, has been employed temporarily in the revision of the collections relating to evolution and anthropology. The Assistant Librarian was granted a furlough of three months and spent the time advantageously in European travel.

The activities in the Osborn Library of Vertebrate Palæontology have extended to filling lacunæ in the writings of several eminent authors, to the detailed work relating to exchanges and to the revision of the subject side of the catalogue. Professor Osborn has donated \$354 for the purchase of books and pamphlets. Miss Jannette M. Lucas, the

**Osborn Library
of Vertebrate
Palæontology**

assistant in charge, has also devoted much time to the compilation of bibliographies and especially to the preparation of the bibliography of the works relating to paleolithic man, to the fauna of his times and to those phases of geologic history pertaining to his activities. It is urgently recommended that additional facilities be furnished at the earliest possible moment to care for the increase in this valuable and uniquely selected library.

PUBLICATIONS

J. A. ALLEN, Editor

The scientific activities of the Museum during the past year are represented by about 800 pages, 42 plates, and 300 **Technical Publications** text figures in the *Bulletin*, and about 600 pages, with over 100 illustrations, in the *Anthropological Papers*. The *Bulletin* contains 44 papers, by 24 contributors, representing all the zoölogical departments. The *Anthropological Papers*, under the editorship of Dr. Clark Wissler, include articles on the Plains and Sarsi Indians, and the "Preliminary Ethnological Report of the Stefánsson-Anderson Arctic Expedition."

Although no new *Memoirs* of the Jesup North Pacific Expedition, which are being published under the editorship of Professor Franz Boas of Columbia University, have been issued during the year, **North Pacific Memoirs** progress has been made in the preparation of the manuscript of the remaining volumes. Through the greater part of the year, Dr. Bruno Oettking has been engaged at the Museum preparing the volume on Physical Anthropology. There are two full volumes and one part each of two volumes to be issued before this important series is complete.

The popular publications include the *Museum Journal*, a new addition of the "General Guide to the Exhibition Halls," and two *Guide Leaflets*, one of which is devoted to "Our Common Butterflies," the other to instructions on "How to Collect and Preserve Insects." The *Journal* consists, as usual, of over 300 pages, with numerous half-tone illustrations, and forms a popular **Popular Publications**

record of the work of the Museum, with special reference to its field explorations, important acquisitions and the more notable installations in the exhibition halls. The *Journal* is published under the editorship of Miss Mary Cynthia Dickerson.

The publications by departments are as follows:

DEPARTMENT OF INVERTEBRATE ZOOLOGY

- W. M. Wheeler and W. M. Mann. "The Ants of Haiti." *Bull.* XXXIII, pp. 1-61, 27 text figs.
- T. D. A. Cockerell. "Tertiary Mollusca from New Mexico and Wyoming." *Bull.* XXXIII, pp. 101-107, pls. viii-x.
- T. D. A. Cockerell. "The Fossil and Recent Bombyliidæ compared." *Bull.* XXXIII, pp. 229-236, 20 text figs.
- T. D. A. Cockerell. "Land Shells from the Tertiary of Wyoming." *Bull.* XXXIII, pp. 323-325, 5 text figs.
- T. D. A. Cockerell and Elizabeth Robinson. "Descriptions and Records of Coccidæ." *Bull.* XXXIII, pp. 327-335, 9 text figs.
- Andrew J. Mutchler. "A New Species of *Criocephalus*." *Bull.* XXXIII, pp. 345, 346.
- Charles W. Leng and Andrew J. Mutchler. "A Preliminary List of the Coleoptera of the West Indies as recorded to Jan. 1, 1914." *Bull.* XXXIII, pp. 391-493.
- H. G. Barber. "Insects of Florida. II. Hemiptera." *Bull.* XXXIII, pp. 495-535, 1 text fig.
- Nathan Banks. "New West India Spiders." *Bull.* XXXIII, pp. 639-642, pl. xliii.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

- John Treadwell Nichols. "On a new Swell-fish from Florida." *Bull.* XXXIII, pp. 81-83.
- L. Hussakof. "Notes on a small collection of Fishes from Patagonia and Tierra del Fuego." *Bull.* XXXIII, pp. 85-94, 2 text figs.
- L. Hussakof. "On two ambicolarate specimens of the Summer Flounder, *Paralichthys dentatus*, with an explanation of ambicoloration." *Bull.* XXXIII, pp. 95-100, 2 text figs.
- John Treadwell Nichols. "*Gobiosoma longum* and *Rivulus heydei*, new Fishes from the West Indian Fauna." *Bull.* XXXIII, pp. 143, 144, 1 text fig.
- John Treadwell Nichols and Robert Cushman Murphy. "Fishes from the South Trinidad Islet." *Bull.* XXXIII, pp. 261-266, 3 text figs.
- John Treadwell Nichols. "A new *Scorpana* and a rare Ray from North Carolina." *Bull.* XXXIII, pp. 537, 538, 1 text fig.
- John T. Nichols and Louis L. Mowbray. "A New Angel-fish (*Angelichthys townsendi*) from Key West." *Bull.* XXXIII, pp. 581-583.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

- Robert Cushman Murphy. "Notes on the Sea Elephant, *Mirounga leonina* (Linné)." *Bull.* XXXIII, pp. 63-79, pls. i-vii, 4 text figs.
- J. A. Allen. "Review of the genus *Microsciurus*." *Bull.* XXXIII, pp. 145-165.
- Frank M. Chapman. "Diagnoses of apparently new Colombian Birds, II." *Bull.* XXXIII, pp. 167-192, pl. xiii.
- Frank M. Chapman. "Descriptions of a new genus and species of Birds from Venezuela." *Bull.* XXXIII, pp. 193-197, 1 text fig.
- J. A. Allen. "Two new Mammals from Ecuador." *Bull.* XXXIII, pp. 199, 200.
- Charles C. Mook. "The Dorsal Vertebræ of *Camarasaurus*." *Bull.* XXXIII, pp. 223-227, 3 text figs.
- Frank M. Chapman. "Descriptions of new Birds from Ecuador." *Bull.* XXXIII, pp. 317-322.
- J. A. Allen. "Mammals from British East Africa, collected on the Third African Expedition of the American Museum by William S. Rainsford." *Bull.* XXXIII, pp. 337-344.
- T. D. A. Cockerell, Lewis I. Miller, and Morris Printz. "The Auditory Ossicles of American Rodents." *Bull.* XXXIII, pp. 347-380, 124 text figs.
- J. A. Allen. "New South American Bats and a new Octodont." *Bull.* XXXIII, pp. 381-389, pl. xxviii.
- J. A. Allen. "New South American Sciuridæ." *Bull.* XXXIII, pp. 585-597, 2 text figs.
- R. C. Andrews. "Monographs of the Pacific Cetacea." I. "The California Gray Whale" (*Rhachianectes glaucus* Cope). *Mem. N. S.*, Vol. I, pt. v, pp. 229-287, pls. xix-xxvii, 22 text figs.
- D. G. Elliot. "The status of *Callithrix lugens* (Humboldt) and *Callithrix amictus* E. Geoffroy." *Bull.* XXXIII, pp. 599-601.
- Frank M. Chapman. "Diagnoses of apparently new Colombian Birds. III." *Bull.* XXXIII, pp. 603-637, pl. xiii.
- D. G. Elliot. "The genera *Ædipomidas* and *Seniocebus*." *Bull.* XXXIII, pp. 643-645.
- J. A. Allen. "New South American Monkeys." *Bull.* XXXIII, pp. 647-655.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

- R. Broom. "Some points in the Structure of the Diadectid skull." *Bull.* XXXIII, pp. 109-114, 4 text figs.
- R. Broom. "On the Structure and Affinities of the Multituberculata." *Bull.* XXXIII, pp. 115-134, pls. xi and xii, 9 text figs.

- R. Broom. "A further comparison of the South African Dinocephalians with the American Pelycosaurs." *Bull.* XXXIII, pp. 135-141, 7 text figs.
- Walter Granger. "On the names of Lower Eocene Faunal Horizons of Wyoming and New Mexico." *Bull.* XXXIII, pp. 201-207.
- Albert Johannsen. "Petrographic Analysis of the Bridger, Washakie, and other Eocene Formations of the Rocky Mountains." *Bull.* XXXIII, pp. 209-222, 2 text figs.
- William J. Sinclair. "A revision of the Bunodont Artiodactyla of the Middle and Lower Eocene of North America." *Bull.* XXXIII, pp. 267-295, 28 text figs.
- W. J. Sinclair and Walter Granger. "Paleocene Deposits of the San Juan Basin, New Mexico." *Bull.* XXXIII, pp. 297-316, pls. xx-xxvii, 2 text figs.
- Barnum Brown. "*Anchiceratops*, a new genus of Horned Dinosaurs from the Edmonton Cretaceous of Alberta. With discussion of the origin of the Ceratopsian Crest and the Brain Casts of *Anchiceratops* and *Trachodon*." *Bull.* XXXIII, pp. 539-548, pls. xxix-xxxvii, 1 text fig.
- Barnum Brown. "A complete skull of *Monoclonius*, from the Belly River Cretaceous of Alberta." *Bull.* XXXIII, pp. 549-558, pls. xxxviii-xl, 2 text figs.
- Barnum Brown. "*Corythosaurus casuarius*, a new Crested Dinosaur from the Belly River Cretaceous, with provisional classification of the Family Trachodontidae." *Bull.* XXXIII, pp. 559-565, pl. xli.
- Barnum Brown. "*Leptoceratops*, a new Genus of Ceratopsia from the Edmonton Cretaceous of Alberta." *Bull.* XXXIII, pp. 567-580, pl. xlii, 19 text figs.
- R. Broom. "Permian, Triassic and Jurassic Reptiles of South Africa." *Bull.* XXV, pt. ii, pp. 105-164, 49 text figs. and map.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

- G. R. Wieland. "Further notes on Ozarkian Seaweeds and Oölites." *Bull.* XXXIII, pp. 237-260, pls. xiv-xix, 2 text figs.

DEPARTMENT OF ANTHROPOLOGY

- Pliny Earle Goddard. "Dancing Societies of the Sarsi Indians." *Anthrop. Papers*, XI, pt. v, pp. 461-474.
- Alanson Skinner. "Political Organization, Cults and Ceremonies of the Plains-Ojibway and Plains-Cree Indians." *Anthrop. Papers*, XI, pt. iv, pp. 475-542, 10 text figs.
- Vilhjálmur Stefánsson. "The Stefánsson-Anderson Arctic Expedition of the American Museum. Preliminary Ethnological Report." *Anthrop. Papers*, XIV, pt. i, pp. 1-395, 95 text figs., 2 maps.

POPULAR PUBLICATIONS

- "Forty-fifth Annual Report of the Trustees," 192 pages, 15 plates, 1 map.
- "Our Common Butterflies," by Frank E. Lutz. *Guide Leaflet* No. 38, 27 pages, 40 text figs.
- "How to Collect and Preserve Insects," by Frank E. Lutz. *Guide Leaflet* No. 39, 21 pages, 12 text figs.
- "General Guide to the Exhibition Halls," 4th Ed. *Guide Leaflet* No. 40, 127 pages, 65 illustrations.
- American Museum Journal*, Vol. XIV.

III. MEMBERSHIP

GEORGE H. SHERWOOD, Assistant Secretary

In spite of the unfortunate financial conditions, the Museum has enjoyed the support of a larger number of Members than ever before. This we consider as a warm endorsement of the character of the work of the institution; it indicates the esteem in which the Museum is held by the people at large. The total number of Members is 3,669. In all, our Members have contributed in cash \$30,820, a sum of very considerable importance, but their contribution in spreading the knowledge of the activities of the Museum and in arousing interest in prospective Members and other friends may be of even greater importance.

We have long been of the opinion that many Members join the Museum because they desire to further the educational work that it is doing and not because they expect to get a direct return to themselves for their contributions. Although this may be the case, it is also true that the Museum now extends to its Members greater privileges than ever before and is enabled through various means to render a very full return. Members have access to the special room furnished for their convenience. They receive free copies of the *Museum Journal*, which keeps

them informed of all Museum activities, and they may have upon request the services of an instructor to explain the exhibits.

Besides the eight or ten regular lectures for Members, given annually on Thursday evenings in the spring and autumn, which this year included the great lectures by Colonel Roosevelt and

Lectures Mr. James Barnes, we now give two series on Saturday mornings for the children of Members. These are adapted to children and are designed to give them a genuine interest in out-door life. They have been attended by large numbers of children.

Usually from four to eight special lectures are given annually to which Members are invited. In May, Members had an opportunity to hear Sir Francis Younghusband on "Tibet and the Entrance to Lhasa." The first exhibition in this country of the second series of African big game motion pictures taken by Mr. Paul. J. Rainey was given to Members of the Museum. Other special lectures to which Members were invited were, "The Scenery of the Atlantic Coast and Its Answer to the Question: Is the Coast Sinking?" by Dr. Douglas Wilson Johnson, given by the Museum in conjunction with the American Scenic and Historic Preservation Society; "Forestry and the Forests of New York," by Dr. Hugh P. Baker, Dean of the New York State College of Forestry at Syracuse University, in conjunction with the Tree Planting Association of New York; "Problems of Volcanic Action," by Professor Reginald A. Daly, under the auspices of the Museum and the New York Academy of Sciences; "The Musical Genius of Birds," by Mr. William L. Finley, given in connection with the Annual Meeting of the National Association of Audubon Societies; "Exploration and Ascent of the Hispar Glacier, Karakoram," given by the noted explorers Dr. and Mrs. Workman, in conjunction with the American Alpine Club; "Picturesque Panama and the Canal" were explained to Members by Dr. Frederic Poole.

Including the various lectures for children, for a contribution of ten dollars Members have been entitled to attend more than seventy-five lectures, several of which were by eminent people.

The very popularity of certain lectures or lecturers, notably Colonel Theodore Roosevelt, has led to the serious embarrassment of the Museum officials and the great discomfort and disappointment of many Members. This has emphasized the necessity of a larger auditorium, which has been included in the building program recommended by the Trustees. The seating capacity of the present auditorium is 1,500. The total number of Members is now more than 3,600 and under the By-Laws at least two tickets for each lecture must be sent to each Member. This inevitable distribution of tickets in excess of the seating capacity of the auditorium rarely causes embarrassment, the average attendance at a lecture being less than 1,000. Indeed, in the last ten years, although more than two hundred lectures have been given for Members, there were only five instances in which it was necessary to turn Members away. The experiences at the recent lecture by Colonel Roosevelt, however, lead us to believe that it would perhaps be more satisfactory to Members if special tickets were issued and distributed to Members only on application, in cases when it was probable that the attendance would be too large for the auditorium.

The Trustees felt that the original incorporators of the Museum were entitled to a class of Membership by themselves. Consequently at the May meeting they amended the Constitution, thereby creating a class designated as Founders. Of the seventeen who constituted this group of Founders, the Honorable Joseph H. Choate is the sole survivor remaining on the Board. At the same time the Trustees created a class of Members to be designated Associate Founders. Any person contributing \$25,000 is eligible for election to this class.

During the year, there has been a small but, under the circumstances, gratifying increase in the number of Members.

Status of Membership The actual number of new Members enrolled was 316, but as the loss through death and resignation was 243, the record shows a net gain of 73. On December 31, 1914, the total membership was 3,669, divided into classes as follows:

Founders	3	Fellows	40
Benefactors	1	Honorary Fellows.....	8
Associate Founders	7	Life Members	650
Associate Benefactors	17	Sustaining Members.....	74
Patrons	112	Annual Members.....	2,757

NEW MEMBERS

The following were elected Founders:

JOSEPH H. CHOATE

A. G. PHELPS DODGE

HENRY PARISH

The following were elected Associate Founders:

CLEVELAND H. DODGE

CHARLES LANIER

ARCHER M. HUNTINGTON

OGDEN MILLS

ARTHUR CURTISS JAMES

PERCY R. PYNE

WILLIAM ROCKEFELLER

The following were elected Associate Benefactors:

JOSEPH H. CHOATE

JOHN B. TREVOR

ANSON W. HARD

MRS. JOHN B. TREVOR

The following were elected Patrons:

FREDERICK F. BREWSTER

F. AUGUSTUS SCHERMERHORN

ROBERT FULTON CUTTING

MRS. HARRIET L. SCHUYLER

MRS. ROBERT WINTHROP

The following was elected a Fellow:

MRS. EZRA RIPLEY THAYER

The following was elected an Honorary Fellow:

VILHJÁLMUR STEFÁNSSON

The following were elected Life Members:

MRS. MAUD W. ADAMS

S. BAYARD COLGATE

MISS M. ELIZA AUDUBON

SIDNEY M. COLGATE

JAMES BARNES

MRS. SIDNEY M. COLGATE

MISS BEATRICE BEND

MISS OLIVIA CUTTING

WILLIAM G. BIBB

H. P. DAVISON

SAMUEL J. BLOOMINGDALE

CHAUNCEY M. DEPEW, JR.

WM. RUTGER BRITTON

MISS KATHARINE DUBOIS

WM. P. CLYDE

WILLIAM DUTCHER

EDWARD D. HARRIS	MRS. GEORGE H. RICHARDSON
MRS. C. H. ISHAM	J. K. ROBINSON
GEORGE C. LONGLEY	FREDERICK C. ROWLEY
DR. P. J. OETTINGER	HENRY ROWLEY
NORTON PERKINS	PAUL J. SACHS
THOMAS M. PETERS	MRS. PAUL J. SACHS
MISS CORNELIA PRIME	PAUL A. SCHOELLKOPF
MRS. PERCY RIVINGTON PYNE	MRS. ROBERT STEWART
MRS. SAMUEL QUINCY	D. EVERETT WAID
DR. WILLIAM S. RAINSFORD	MRS. J. HENRY WATSON
MAJOR BASIL HICKS DUTCHER, U.S.A.	

The following have become Sustaining Members:

MRS. ALLEN S. APGAR	MRS. L. W. FABER
DR. EDWIN BEER	MRS. ROBERT STEWART
MAX WM. STÖHR	

DECEASED TRUSTEES AND MEMBERS

It is with a profound sense of our loss that we announce the death of the following Members during the year 1914:

Trustee

ALBERT S. BICKMORE

Scientific Staff

ALBERT S. BICKMORE JOHN A. GROSSBECK

Benefactor

MRS. MORRIS K. JESUP

Patrons

ALBERT S. BICKMORE

JOHN L. CADWALADER MRS. MORRIS K. JESUP
JOHN A. GROSSBECK GEORGE W. VANDERBILT

Fellows

WM. LANMAN BULL JOHN A. GROSSBECK
JOHN L. CADWALADER JAMES B. HAGGIN

Life Members

MRS. P. HACKLEY BARHYDT	J. HOWARD FORD
J. HULL BROWNING	JACOB LANGELOTH
JOHN L. CADWALADER	JAMES F. O'SHAUGHNESSY
GEORGE W. COLLORD	HENRY A. V. POST
FREDERIC CROMWELL	BYRON L. SMITH
DR. HENRY C. ENO	GEORGE W. VANDERBILT

At the regular meeting of the Board of Trustees, held on November 9, 1914, the following resolution was unanimously adopted:

The Trustees of the American Museum of Natural History record with deep sorrow the death of their colleague and co-worker, Albert Smith Bickmore, on August 12, 1914. To him rightly belongs the title of "Father of the Museum," for his enthusiasm and optimism were the chief inspiration of that group of public spirited men who actually founded the institution.

Professor Bickmore took a vital part in the development of the Museum from its very inception in 1869 to 1904, when ill health compelled his retirement from active service. He was the first Superintendent of the Museum and later was Curator of Ethnology. He was the organizer and first Curator of the Department of Public Instruction, of which he was Curator Emeritus at the time of his death.

In 1885 Professor Bickmore was elected to the Board of Trustees. He served the Board as Secretary from 1887-1891, and was a member of the Executive Committee from 1886-1894. Especially valuable were his services on various legislative committees.

Professor Bickmore was a man of high ideals and of wide sympathies and possessed in marked degree the power to arouse enthusiasm and secure effective action. He lived a noble and useful life and his kindly presence will ever be a pleasant memory to his colleagues.

At the same meeting of the Trustees, the following resolution was unanimously adopted:

It is with a deep sense of their personal loss that the Trustees record the death on June 17, 1914, of Mrs. Morris K. Jesup, a benefactor and friend of the Museum. Her very close association with the interests and ambitions of her husband during his lifetime, and her constant sympathy in, and support of, all his plans and undertakings, gave her an abiding interest in the growth and development of the institution. Her personal concern in the welfare of the Museum was not lessened but rather deepened after the death of Mr. Jesup, because it was her earnest desire to represent and continue his interests, and her judgment and her gifts were always guided by what she believed he would have wished her to do. Her visits to the Museum were full of association with his plans, and after the lapse of a few years became a source of increased delight. Her gifts were many, extending to many departments, especially those of Geology, Anthropology, Vertebrate Palæontology and Woods and Forestry. This generosity culminated in the magnificent bequest of \$5,000,000. The pleasure which this great bequest gives to all friends of the institution is shadowed by a feeling of sorrow when it comes with the loss of such a noble-hearted woman.

IV. FINANCES, MAINTENANCE, ENDOWMENT

CHARLES LANIER, Treasurer

The various financial transactions of the Museum have been recorded in the several accounts. The actual bookkeeping and the clerical work necessary in the preparation of bills for payment have been carried on at the Museum under the direction of the Bursar, Mr. Frederick H. Smyth. The United States Trust Company of New York has continued to be the depository of the active Museum funds, and as Assistant Treasurer has made a monthly audit of the accounts in the Treasurer's Office. Four separate accounts are required to record properly the main financial operations of the Museum. These are: the Endowment and Investment Account, which deals solely with the moneys for the permanent endowment; the City Maintenance Account, in which the receipts and expenditures of moneys received from the City for maintenance are recorded; the General Account, in which are handled the funds other than City appropriations, required for the general running of the Museum, and the Special Funds Account, used for recording all moneys received and disbursed for specified purposes. In addition to these, smaller accounts are maintained to provide for certain contingencies. Acting under instructions from the Auditing Committee, the Audit Company of New York has made semi-annual examinations of all the Treasurer's books.

The details of the Treasurer's report will be found on pages 101 to 119, inclusive.

The additions to the endowment fund for the year amount to \$8,556.72, of which \$4,956.72 was received from the estate of Frederika Gade, and \$3,600 from membership fees. The prospective receipts include the magnificent bequest of Mrs. Morris K. Jesup of \$5,000,000

**Trustees' Permanent
Endowment Account**

and the bequests of Dessie Greer and of Morris Loeb. It is not expected, however, that any of these funds will be available for some time.

The Treasurer's books show, for the maintenance of all departments, total net disbursements of \$200,000, the sum actually appropriated by the City for this purpose. As a matter of fact, maintenance has risen to nearly \$300,000, and the Trustees have been obliged to draw on their general funds to the extent of \$95,000, in order to supplement the City's appropriation. An examination of the general receipts will show that the Trustees are now devoting all the Museum's income, except the restricted Jesup Fund and their personal contributions for general and special purposes, to maintenance.

The chief sources of income of the General Account are the invested funds of the Permanent Endowment, the personal subscriptions from Trustees and the receipts from Members. The total net receipts for the development of all departments during the year were \$201,382.73. The chief items are:

Interest on General Endowment.....	\$56,862 85
Interest on Morris K. Jesup Fund.....	50,997 94
Annual and Sustaining Members.....	27,220 00
Personal contributions of Trustees.....	46,000 00

The General Account also shows the proceeds of three notes aggregating \$60,000, which are required to carry on the business of the Museum. This sum has to be deducted from the balance shown on the Treasurer's books, in order to arrive at the correct amount of cash in bank, which on December 31 was \$6,877.31.

The contributions of Trustees and Members for specific purposes have reached a total of \$22,697.95, a sum \$6,600 greater than was received in 1913. This is the more remarkable since business conditions have compelled the reduction of personal expenses in many cases.

**Trustees'
Special Funds
Account**

SUMMARY OF DISBURSEMENTS BY DEPARTMENTS FOR 1914

	Municipal Appropriation for Maintenance	Trustees' Funds		Total
		General Expenses	Special Purposes	
Geology and Invertebrate				
Palæontology.....	\$4,900 66	\$8,571 79	\$3,000 00	\$16,472 45
Mineralogy.....	1,976 32	1,506 87	660 00	4,143 19
Mammalogy.....	5,927 58	20,345 93	4,328 76	30,602 27
Vertebrate Palæontology...	5,192 40	27,242 94	650 00	33,085 34
Professor Osborn's Research and Publication Fund....		4,820 18		4,820 18
Anthropology.....	6,597 09	18,580 80	11,220 64	36,398 53
Invertebrate Zoölogy.....	6,817 74	8,168 28	75 00	15,061 02
Ichthyology and Herpetol- ogy..	3,151 38	4,950 87	934 13	9,036 38
Anatomy and Physiology...	46 96	2,361 27		2,408 23
Public Health.....	1,694 21	1,459 70	741 79	3,895 70
Woods and Forestry.....	131 51	2,277 76		2,409 27
Library.....	8,137 71	9,255 36		17,393 07
Publications.....		16,616 74	482 03	17,098 77
Public Education.....	5,346 39	6,152 30	1,850 77	13,349 46
Preparation and Exhibition.	2,309 94	23,992 19		26,302 13
Heating and Lighting.....	22,208 82	1,427 44		23,636 26
Repairs and Installation....	22,328 00	1,626 10		23,954 10
General Supplies and Ex- penses.....	10,839 91	13,661 96		24,501 87
Administration.....	92,393 38	2,991 97		95,385 35
Pension Fund.....		8,005 66		8,005 66
Interest on Bank Loans....		989 31		989 31
Miscellaneous.....			67 71	67 71
	<hr/>	<hr/>	<hr/>	<hr/>
	\$200,000 00	\$185,005 42	\$24,010 83	\$409,016 25
Total Disbursements from Trustees' Funds.....				209,016 25
Total Disbursements from Municipal Funds.....				200,000 00
Total.....				<u>\$409,016 25</u>

SUMMARY OF CONTRIBUTIONS FOR THE PAST TWELVE YEARS

Year	By the Trustees and Other Members of the Museum				By the City of New York	
	Subscriptions from Trustees	Subscriptions and Fees from Members and Friends	Income from Endowment	Increase of Endowment from Bequests, Gifts and Fees	Maintenance Appropriations by the City	Building and Equipment Appropriations by the City
1903	\$ 23,137 51	\$ 45,253 87	\$ 21,805 00	\$ 4,933 12	\$160,000 00	\$188,000 00
1904	7,700 00	40,856 88	35,653 34	569,761 39	160,000 00	
1905	10,800 00	26,727 30	47,860 00	1,000 00	160,000 00	500,000 00
1906	50,265 16	33,912 94	48,540 00		170,000 00	
1907	46,598 88	30,281 78	48,977 50	33,799 25	160,000 00	
1908	34,152 63	74,987 89	50,565 00	1,000,000 00	159,930 62	
1909	31,700 00	43,796 79	100,511 25	12,000 00	179,999 60	100,000 00
1910	54,725 00	46,653 93	95,255 07	132,000 00	185,757 00	
1911	60,314 39	49,628 74	108,770 52	26,070 37	189,757 00	275,000 00
1912	91,975 00	63,450 94	109,983 92	17,100 00	195,000 00	
1913	71,286 85	61,447 68	111,680 15	23,210 00	200,000 00	25,000 00
1914	62,993 75	41,327 76	109,604 99	8,556 72	200,000 00	
	\$545,649 17	\$558,326 50	\$889,206 74	\$1,828,430 85	\$2,120,444 22	\$1,088,000 00
Total Appropriations by the City of New York.....					3,208,444 22	
Total Gifts and Contributions by Trustees and other Members of the Museum.....					3,821,613 26	
					\$7,030,057 48	

An examination of the foregoing summaries reveals the fact that again for every dollar of municipal money expended the Trustees have expended more than a dollar, and the Museum continues to be a free institution.

Respectfully submitted

HENRY FAIRFIELD OSBORN

February 1, 1915

President

FINANCIAL STATEMENT

1914

*PERMANENT ENDOWMENT**

Morris K. Jesup Fund	\$1,146,838 80	
General Endowment Fund.....	1,194,627 10	
John B. Trevor Fund.....	25,000 00	
Josiah M. Fiske Fund.....	10,000 00	
Matilda W. Bruce Fund.....	11,000 00	
Solomon Loeb Fund.....	5,000 00	
Jonathan Thorne Memorial Fund.....	26,884 10	
	\$2,419,350 00	
Uninvested Cash :		
General Endowment Fund.....		3,339 54
Jonathan Thorne Memorial Fund.....		2 21
		\$2,422,691 75

*The income of the Permanent Endowment is the chief source of income of the General Account.

ENDOWMENT AND INVESTMENT ACCOUNT

RECEIPTS

1914

GENERAL ENDOWMENT FUND :

Balance.....	\$2,387 82	
Estate of Frederika Gade.....	4,956 72	
Patron	1,000 00	
Fellow	500 00	
Life Members.....	2,100 00	
Redemption of Bonds.....	12,000 00	\$22,944 54

JONATHAN THORNE MEMORIAL FUND :

Balance		2 21
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INTEREST ON CREDIT BALANCES :

Earnings to December 31, 1914.....		93 75
		\$23,040 50

Examined and Approved	ANSON W. HARD GEORGE W. WICKERSHAM FREDERICK F. BREWSTER	<i>Auditing Committee</i>
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ENDOWMENT AND INVESTMENT ACCOUNT

DISBURSEMENTS

1914

GENERAL ENDOWMENT FUND :

Purchase of Bonds..... \$19,605 00

INTEREST ON CREDIT BALANCES :

Transferred to Interest on Credit Balances, General Account..... 93 75

CASH ON HAND December 31, 1914..... 3,341 75
\$23,040 50

CHARLES LANIER, *Treasurer*

E. & O. E.

NEW YORK, *December 31, 1914*

CITY MAINTENANCE ACCOUNT

RECEIPTS

1914

Capital Fund, cash on hand January 1, 1914.....	\$15,000 00
Department of Parks:	
Appropriation for 1914:	
Salaries and Expenses.....	\$200,000 00
Total net receipts for the maintenance of all departments.....	\$200,000 00
Interest on Credit Balances:	
Earnings to December 31, 1914.....	232 10
Loans.....	3,100 00
	\$218,332 10

Examined and Approved { ANSON W. HARD
GEORGE W. WICKERSHAM
FREDERICK F. BREWSTER } *Auditing Committee*

CITY MAINTENANCE ACCOUNT*

DISBURSEMENTS

1914

Geology and Invertebrate Palæontology.....	\$4,900	66
Mineralogy.....	1,976	32
Mammalogy and Ornithology.....	5,927	58
Vertebrate Palæontology.....	5,192	40
Anthropology.....	6,597	09
Invertebrate Zoölogy.....	6,817	74
Ichthyology and Herpetology.....	3,151	38
Anatomy and Physiology.....	46	96
Public Health.....	1,694	21
Woods and Forestry.....	131	51
Library.....	8,137	71
Public Education.....	5,346	39
Preparation and Exhibition.....	2,309	94
Heating and Lighting.....	22,208	82
Repairs and Installation.....	22,328	00
General Supplies and Expenses.....	10,839	91
Administration.....	92,393	38
Total net disbursements for the maintenance of all departments.....		\$200,000 00
Interest on Credit Balances :		
Transferred to Interest on Credit Balances, General Account.....		232 10
Loans.....		3,100 00
Capital Fund :		
Cash on hand December 31, 1914.....		15,000 00
		<u>\$218,332 10</u>

CHARLES LANIER, *Treasurer*

E. & O. E.

NEW YORK, *December 31, 1914*

*The annual appropriation by 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 1914, amounting to \$95,000, has been met from the Trustees' General Account.

GENERAL ACCOUNT

RECEIPTS

1914

Balance on hand January 1, 1914:			
Cash in Bank.....	\$4,704	99	
Loan Receivable from Crocker Land			
Expedition Fund Account.....	9,500	00	\$14,204 99
Interest on General Endowment.....	\$56,862	85	
Interest on Morris K. Jesup Fund.....	50,997	94	
Interest on Credit Balances.....		809 16	
Annual Members.....	25,570	00	
Sustaining Members.....	1,650	00	
Sales and Exchanges.....	2,236	62	
Sale of Publications.....	3,051	17	
Contributions of Trustees for General Receipts:			
George F. Baker.....	\$1,000	00	
Frederick F. Brewster.....	2,500	00	
Joseph H. Choate.....	1,000	00	
Thomas De Witt Cuyler.....	2,500	00	
Cleveland H. Dodge.....	5,000	00	
James Douglas.....	1,500	00	
Henry C. Frick.....	1,000	00	
Anson W. Hard.....	1,000	00	
Archer M. Huntington.....	1,000	00	
Adrian Iselin, Jr.....	2,000	00	
Arthur Curtiss James.....	5,000	00	
Walter B. James.....	1,000	00	
A. D. Juilliard.....	2,500	00	
Charles Lanier.....	1,000	00	
Ogden Mills.....	2,500	00	
J. P. Morgan.....	5,000	00	
Henry Fairfield Osborn.....	2,000	00	
Percy R. Pyne.....	2,500	00	
John B. Trevor.....	1,000	00	
Felix M. Warburg.....	5,000	00	46,000 00 187,177 74
Total net receipts for the development of all departments.....			\$201,382 73
Loans:			
City Maintenance Account.....	3,100	00	
Bursar's Account.....	7,500	00	10,600 00
Proceeds of Notes held by United States Trust Co. of N. Y.....			60,000 00
			<u>\$271,982 73</u>

Examined	}	ANSON W. HARD	}	<i>Auditing Committee</i>
and Approved		GEORGE W. WICKERSHAM		

GENERAL ACCOUNT*

DISBURSEMENTS

1914

Geology and Invertebrate Palæontology.....	\$8,571	79	
Mineralogy	1,506	87	
Mammalogy and Ornithology	20,345	93	
Vertebrate Palæontology.....	27,242	94	
Professor Osborn's Research and Publication Fund.	4,820	18	
Anthropology.....	18,580	80	
Invertebrate Zoölogy.....	8,168	28	
Ichthyology and Herpetology	4,950	87	
Anatomy and Physiology.....	2,361	27	
Public Health.....	1,459	70	
Woods and Forestry.....	2,277	76	
Library.....	9,255	36	
Public Education.....	6,152	30	
Preparation and Exhibition	23,992	19	
Publications.....	16,616	74	
Heating and Lighting.....	1,427	44	
Repairs and Installation.....	1,626	10	
General Supplies and Expenses.....	13,661	96	
Administration.....	2,991	97	
Pension Fund.....	8,005	66	
Interest on Loans.....	989	31	
Total net disbursements for the development of all departments.....			\$185,005 42
Loans:			
City Maintenance Account.....	\$3,100	00	
Bursar's Account	7,500	00	10,600 00
Balance on hand December 31, 1914:			
Cash in Bank.....	\$6,877	31	
Loan Receivable from Crocker Land Expedition Fund Account.....	9,500	00	
			\$16,377 31
Proceeds of Notes held by United States Trust Co. of N. Y.....	60,000	00	†76,377 31
			\$271,982 73

E. & O. E.

CHARLES LANIER, *Treasurer*

NEW YORK, December 31, 1914

* 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 in the General Account of **\$76,377.31**. Of this sum, **\$60,000** is required to meet the three notes held by the United States Trust Company of New York. The net cash in bank December 31, 1914, was **\$6,877.31**. In addition to this sum, the General Account has a credit of a loan of **\$9,500** to be returned by the Crocker Land Expedition Fund Account in 1915. Therefore, the actual balance in the General Account is **\$16,377.31**, of which **\$15,926.82** is being held in the 1915 budget to meet unpaid pledges and contracts of 1914. The actual net cash balance on December 31, 1914, after meeting all the obligations of 1914, was **\$450.49**.

SPECIAL FUNDS ACCOUNT

RECEIPTS

1914

GEOLOGY AND INVERTEBRATE PALÆONTOLOGY:

METEORITE FUND:

Balance	\$500 00	
Arthur Curtiss James.....	500 00	\$1,000 00

ANGELO HEILPRIN EXPLORING FUND:

Mr. and Mrs. Paul J. Sachs.....		500 00
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HOWELL METEORITE COLLECTION FUND:

J. P. Morgan.....	2,000 00	\$3,500 00
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MINERALOGY:

MATILDA W. BRUCE FUND:

Interest.....		660 00
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MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

Balance		78 25
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MRS. FRANK K. STURGIS FUND:

Balance.....		3 26
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CRANDALL OÖLOGICAL FUND:

Balance		1,160 00
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WHALE MODEL FUND:

Balance		1,000 00
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SOUTH AMERICAN EXPLORATION FUND:

Balance	388 66	
Refund from Field Assistant.....	530 77	
Transferred from North American Ornithology Fund, Series 2.....	70 86	
Transferred from Mrs. Frank K. Sturgis Fund.....	3 26	993 55

PREPARATION OF AFRICAN COLLECTIONS FUND:

Balance		987 19
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ROOSEVELT SOUTH AMERICAN EXPEDITION FUND:

Balance	817 89	
Theodore Roosevelt	2,000 00	
Cleveland H. Dodge.....	2,000 00	4,817 89

SOUTH GEORGIA EXPEDITION FUND, No. 2:

Charles L. Bernheimer.....	200 00	
Sidney M. Colgate.....	200 00	
Transferred from Asiatic Expedition Fund.....	100 00	
Temple Bowdoin.....	500 00	1,000 00

ASIATIC EXPEDITION FUND:

Sidney M. Colgate.....	100 00	10,140 14
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Carried forward..... \$14,300 14

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1914

GEOLOGY AND INVERTEBRATE PALÆONTOLOGY:

METEORITE FUND:

Purchase of meteorites.....	\$950 00	
Transferred to Geology, General Account, for purchase of meteorites.	<u>50 00</u>	\$1,000 00

HOWELL METEORITE COLLECTION FUND:

Purchase of collection.....	<u>2,000 00</u>	\$3,000 00
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MINERALOGY:

MATILDA W. BRUCE FUND:

Purchase of mineral specimens....	249 56	
Transferred to Mineralogy, General Account, for purchase of minerals	<u>410 44</u>	660 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

Purchase of equipment.....	\$7 39	
Transferred to South American Exploration Fund.....	<u>70 86</u>	78 25

MRS. FRANK K. STURGIS:

Transferred to South American Exploration Fund.....		3 26
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SOUTH AMERICAN EXPLORATION FUND:

Expenses of field work.....	319 00	
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PREPARATION OF AFRICAN COLLECTIONS FUND:

Preparation of African Hall model.....	981 34	
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ROOSEVELT SOUTH AMERICAN EXPEDITION FUND:

Purchase of equipment and services of field assistant.....		3,021 03
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ASIATIC EXPEDITION FUND:

Transferred to South Georgia Expedition Fund, No. 2.....	<u>100 00</u>	4,502 88
----------------------------------------------------------	---------------	----------

Carried forward..... \$8,162 88

SPECIAL FUNDS ACCOUNT

RECEIPTS

1914

Brought forward.....\$14,300 14

VERTEBRATE PALÆONTOLOGY:

HORSE EXPLORATION FUND:

Transferred from Vertebrate Palæon-
tology, General Account.....\$1,805 77

Transferred from Professor Osborn's
Research and Publication Fund,
General Account..... 194 23

\$2,000 00

Frank K. Sturgis..... 250 00

Henry Fairfield Osborn..... 400 00

2,650 00

ANTHROPOLOGY:

EAST ASIATIC FUND:

Balance 2,335 49

BUREAU OF MISSIONS FUND:

Balance 11 80

PRIMITIVE PEOPLES OF SOUTHWEST FUND:

Balance 2,157 31

Archer M. Huntington..... 6,000 00 8,157 31

MURAL PAINTINGS FUND:

Balance 1,000 00

NAZCA PERUVIAN COLLECTION FUND:

A. D. Juilliard..... 4,893 75 16,398 35

INVERTEBRATE ZOÖLOGY:

TAHITI FUND:

Balance 195 00

INVERTEBRATE ZOÖLOGICAL EXPEDITION FUND:

Balance 113 66 308 66

ICHTHYOLOGY AND HERPETOLOGY:

DODGE ICHTHYOLOGY FUND:

Balance 1,409 61

PUBLIC HEALTH:

PUBLIC HEALTH FUND:

Felix M. Warburg..... 1,000 00

Walter B. James..... 200 00 1,200 00

Carried forward..... \$36,266 76

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1914

Brought forward.....\$8,162 88

VERTEBRATE PALÆONTOLOGY :

HORSE EXPLORATION FUND:

Refund to "A Friend" of contribution made in 1913.....	\$2,000 00	
Services of preparator.....	210 65	
Transferred to Vertebrate Palæontology, General Account, for services of preparator.....	439 35	2,650 00

ANTHROPOLOGY :

BUREAU OF MISSIONS FUND :

Purchase of specimens.....	8 00	
Transferred to Anthropology, General Account, for purchase of specimens.....	3 80	11,80

PRIMITIVE PEOPLES OF SOUTHWEST FUND :

For expenses of field work, purchase of specimens and preparation of Hopi Group.....	6,301 81	
Transferred to Anthropology, General Account, for purchase of specimens.....	13,28	6,315 09

NAZCA PERUVIAN COLLECTION FUND:

Purchase of collection.....	2,393 75	
Transferred to Anthropology, General Account, for purchase of collection.....	2,500 00	4,893 75 11,220 64

INVERTEBRATE ZOÖLOGY :

INVERTEBRATE ZOÖLOGICAL EXPEDITION FUND:

Expenses of field assistant in West Indies.....		75 00
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ICHTHYOLOGY AND HERPETOLOGY :

For expenses of field work and purchase of specimens.....		934 13
-----------------------------------------------------------	--	--------

PUBLIC HEALTH :

PUBLIC HEALTH FUND:

Services of assistants and preparation of flea model.....		741 79
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Carried forward.....\$23,784 44

SPECIAL FUNDS ACCOUNT

RECEIPTS

1914

Brought forward.....\$36,266 76

PUBLIC EDUCATION:

JONATHAN THORNE MEMORIAL FUND:

Balance	\$1,573 20	
Interest	1,084 20	2,657 40

CHILDREN'S ROOM FUND:

Balance		115 69	2,773 09
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PREPARATION AND EXHIBITION:

SEA ELEPHANT PREPARATION FUND:

Balance.....			1,000 00
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PUBLICATIONS:

JESUP NORTH PACIFIC EXPEDITION

PUBLICATIONS:

Balance		1,403 68	
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MUSEUM JOURNAL FUND:

George C. Longley.....	200 00	1,603 68	
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Gross receipts for the development of all departments.....			\$41,643 53
-------------------------------------------------------------	--	--	--------------

ACADEMY ROOM FUND:

Balance			67 71
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INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1914.....		473 07	
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		<u>473 07</u>	
			<u>\$42,184 31</u>

Examined and Approved	{ ANSON W. HARD GEORGE W. WICKERSHAM FREDERICK F. BREWSTER }	{ Auditing Committee }
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* Owing to various transfers and reimbursements, the net receipts for the development of all departments are \$38,938.64.*

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1914

Brought forward\$23,784 44

PUBLIC EDUCATION:

JONATHAN THORNE MEMORIAL FUND:

For services of instructors, transportation of the blind
and expenses of special lectures..... 1,850 77

PUBLICATIONS:

JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS:

For services preparing manuscript..... \$282 03

MUSEUM JOURNAL FUND:

Special article in Museum Journal..... 200 00 482 03

*Gross disbursements for the development of all
departments \$26,117 24*

ACADEMY ROOM FUND:

For work in Academy Room..... 4 79
Transferred to Repairs and Installation, General
Account, for work in Academy Room..... 62 92 67 71

INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances, General
Account..... 473 07CASH ON HAND DECEMBER 31, 1914..... 15,526 29
\$42,184 31CHARLES LANIER, *Treasurer*

E. & O. E.

NEW YORK, December 31, 1914

* Owing to various transfers and reimbursements the net disbursements for the development of all departments are \$23,943.12*

CROCKER LAND EXPEDITION FUND ACCOUNT

RECEIPTS

1914

CASH ON HAND JANUARY 1, 1914.....		\$532 79
Zenas Crane	\$1,500 00	
University of Illinois.....	2,500 00	
Leigh R. Hunt	4 50	
S. V. Cole.....	10 00	
Interest on Credit Balances.....	46 31	
		<u>4,060 81</u>
GENERAL ACCOUNT:		
Geology for 1914.....		600 00
		<u>\$5,193 60</u>

Examined and Approved { ANSON W. HARD
GEORGE W. WICKERSHAM } Auditing
FREDERICK F. BREWSTER } Committee

CORPORATE STOCK ACCOUNT

RECEIPTS

1914

DEPARTMENT OF PARKS.....	\$12,699 69	
INTEREST ON CREDIT BALANCES:		
Earnings to December 1, 1914.....	3 38	
		<u>\$12,703 07</u>
Examined and Approved { ANSON W. HARD GEORGE W. WICKERSHAM } Auditing FREDERICK F. BREWSTER } Committee		

INCIDENTAL ACCOUNT

RECEIPTS

1914

RECEIPTS FROM INDIVIDUALS AND SOCIETIES	\$3,424 53	
INTEREST ON CREDIT BALANCES:		
Earnings to December 31, 1914.....	4 53	
		<u>\$3,429 06</u>
Examined and Approved { ANSON W. HARD GEORGE W. WICKERSHAM } Auditing FREDERICK F. BREWSTER } Committee		

CROCKER LAND EXPEDITION FUND ACCOUNT

DISBURSEMENTS

1914

Materials, Supplies and Equipment.....	\$290 81	
Incidental Expenses	123 06	
Salaries	2,102 32	
Salvage S.S. Diana.....	2,588 07	
		<u>\$5,104 26</u>
Cash on hand December 31, 1914.....		89 34
		<u>\$5,193 60</u>

CHARLES LANIER, *Treasurer*E. & O. E.,
NEW YORK, December 31, 1914CORPORATE STOCK ACCOUNT

DISBURSEMENTS

1914

PAYROLLS OF MECHANICS, ETC.....	\$12,699 69	
INTEREST ON CREDIT BALANCES:		
TRANSFERRED TO INTEREST ON CREDIT BALANCES, GENERAL ACCOUNT.....		3 38
		<u>\$12,703 07</u>

CHARLES LANIER, *Treasurer*E. & O. E.,
NEW YORK, December 31, 1914INCIDENTAL ACCOUNT

DISBURSEMENTS

1914

DISBURSEMENTS FOR INDIVIDUALS AND SOCIETIES.....	\$3,328 53	
INTEREST ON CREDIT BALANCES:		
TRANSFERRED TO INTEREST ON CREDIT BALANCES, GENERAL ACCOUNT.....		4 53
		<u>\$3,333 06</u>
CASH ON HAND DECEMBER 31, 1914.....		96 00
		<u>\$3,429 06</u>

CHARLES LANIER, *Treasurer*E. & O. E.,
NEW YORK, December 31, 1914

FINANCIAL STATEMENT
OF THE
PENSION FUND
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
1914

INVESTED FUNDS

ENDOWMENT FUND.....	\$1,127 74	
INVESTED FUND.....	18,872 26	
	<hr/>	\$20,000 00

PENSION FUND ACCOUNT

RECEIPTS

1914

CASH ON HAND JANUARY 1, 1914.....		\$9,108 55
CONTRIBUTIONS OF SUBSCRIBING EMPLOYEES:		
Deductions of 3% from Payrolls of		
City Maintenance Account	\$4,888 66	
General Account.....	2,448 08	
Special Funds Account	81 20	
Corporate Stock Account.....	367 47	
Incidental Account.....	48 31	
Crocker Land Expedition Fund Account	07	\$7,833 79
PERSONAL CONTRIBUTIONS OF SUBSCRIBING EMPLOYEES..	170 27	
INTEREST ON DEFERRED CONTRIBUTIONS.....	1 60	8,005 66
CONTRIBUTIONS OF BOARD OF TRUSTEES:		
To Equal Contributions of Subscribing Employees.....		8,005 66
INTEREST ON LEAVE OF ABSENCE PAYMENTS.....		17
INTEREST ON REPAYMENT OF CONTRIBUTIONS AND INTEREST		87
RETURN OF CONTRIBUTIONS.....		68 78
INTEREST ON CONTRIBUTIONS RETURNED.....		79
INTEREST ON ENDOWMENT FUND.....		50 74
INTEREST ON INVESTMENT FUND		340 37
INTEREST ON CREDIT BALANCES:		
Earnings to December 31, 1914.....		201 00
INVESTMENT FUND.....		27 50
BURSAR'S ACCOUNT		500 00
		<u>\$26,310 09</u>

Examined and { ADRIAN ISELIN, JR. } *Auditing*
 Approved { PERCY R. PYNE } *Committee*

PENSION FUND—SPECIAL FUNDS ACCOUNT

RECEIPTS

1914

SPECIAL CONTRIBUTIONS NO. 1:		
Cleveland H. Dodge		\$25 00
Adrian Iselin, Jr.....		25 00
Arthur Curtiss James.....		25 00
A. D. Juilliard.....		25 00
J. P. Morgan.....		25 00
Henry Fairfield Osborn.....		25 00
Felix M. Warburg.....		50 00
		<u>\$200 00</u>

Examined and { ADRIAN ISELIN, JR. } *Auditing*
 Approved { PERCY R. PYNE } *Committee*

PENSION FUND ACCOUNT

DISBURSEMENTS

1914

RETURN OF CONTRIBUTIONS	\$607 39	
INTEREST ON CONTRIBUTIONS RETURNED	<u>11 95</u>	\$619 34
SERVICE PENSION.....	231 25	
DEATH GRATUITIES PAID UNDER SECTION 13	<u>1,574 00</u>	1,805 25
PURCHASE OF SECURITIES:		
Investment Fund.....		14,306 25
LOAN ACCOUNT		500 00
CASH ON HAND DECEMBER 31, 1914:		
Deposited with United States Trust Company of New York	8,579 25	
Deposited with Colonial Bank (Bursar's Account)...	<u>500 00</u>	9,079 25
		<hr/>
		<u>\$26,310 09</u>

E. & O. E.
NEW YORK, December 31, 1914

CHARLES LANIER, *Treasurer*

PENSION FUND—SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1914

SPECIAL CONTRIBUTION No. 1:		
Payment for Relief		\$150 00
CASH ON HAND DECEMBER 31, 1914:		
Deposited with United States Trust Company of New York		50 00
		<hr/>
		<u>\$200 00</u>

E. & O. E.
NEW YORK, DECEMBER 31, 1914

CHARLES LANIER *Treasurer*

LIST OF ACCESSIONS, 1914

DEPARTMENT OF PUBLIC EDUCATION.

BY GIFT.

- H. L. ALDRICH, New York City.
161 Lantern slides.
- MRS. EMMA B. AUCHINCLOSS, New York City.
28 Mounted birds and 19 bird skins.
- DAVID GREENBERG, New York City.
6 Negatives of public health subjects.
- MISS ELLA A. HOLMES, Jamaica, New York.
1 Screech Owl in the flesh.
- J. G. HUBBARD, Woods Hole, Mass.
16 Negatives of Passenger Pigeons.
- HUDSON RIVER DAY LINE, New York City.
19 Colored slides.
- MISS JANNETTE M. LUCAS, New York City.
6 Negatives of jaws of a Whale.
- F. G. METZGER, Yulan, N. Y.
2 Hornets' Nests.
- WILLIAM F. PATTERSON, Maplewood, N. J.
9 Colored lantern slides of trees.
- PAUL J. RAINEY, New York City.
Negative film of all his African motion pictures.
- HENRY L. WARD, Milwaukee, Wis.
12 Colored lantern slides.
- C. H. WILlich, New York City.
4 Framed photomicrographs.

DEPARTMENT OF GEOLOGY.

BY GIFT.

- ESTATE OF MRS. P. HACKLEY BARHYDT,
through MISS EMILY BUCH, New York City.
2 Microscopes, 1 mahogany cabinet, slides and accessories.
- JOHN B. BROSSÉAU, New York City.
Framed photograph of "Muir Glacier."
- GEORGE ISRAEL BROWNE, Lancaster, Pa.
5 Ginkgo seeds of living species.
- FOOTE MINERAL CO., Philadelphia, Pa.
119 grm. "Ysleta" Meteorite.

GEORGE H. GIRTY, Washington, D. C.
200 Cambrian, Helderberg and Hamilton fossils from New York and Canada.

ESTATE OF ANGELO HEILPRIN.
8 Oil Paintings of Mont Pelé.

ARTHUR CURTISS JAMES, New York City.
Meteorite "Ysleta," weighing 310 pounds.
Meteorite weighing 13 pounds, Culbertson, Neb.

R. H. LYMAN, New York City.
7 Photographs of Vesuvius crater.

RUSSELL HASTINGS MILLWARD, New York City.
2 Specimens petrified wood, Colombia, S. A.

J. P. MORGAN, New York City.
Howell Collection of Meteorites representing 54 falls and finds.

NEW JERSEY ZINC CO., Franklin Furnace, N. J.
Block of Franklinite-Zincite-Willemitite ore, Franklin Furnace, N. J.

NEW YORK BOTANICAL GARDEN, New York City.
Photographs of "Pot Hole" in Botanical Garden.

C. J. OSMAN, Hillsborough, Canada.
A large sample of Gypsum containing vein of Albertite, 4 specimens Albert Shale and many specimens of Gypsum, Canada.

CHARLES H. ROGERS, New York City.
Ammonites (Stephenoceras) commune, Lias formation, Ulster, Ireland.

E. B. STINSON, Iron Point, Nev.
Variegated Sandstone and Shale.

GEORGE R. WIELAND, New Haven, Conn.
2 Type specimens *Cryptozoön bassleri* Wieland.

DEAN C. WORCESTER, New York City.
25 Photographs of eruption of Taal Volcano, Philippine Islands.

BY EXCHANGE OR PURCHASE.

- 54 grm. Meteorite, "Alten."
61 grm. Meteorite, "Aumières."
811 grm. Meteorite, "Big Skookum."
180 grm. Meteorite, "Blithfield."

- 37 grm. Meteorite, "Canton."
 28 grm. Meteorite, "Davis Mts."
 73.6 grm. Meteorite, "Dores dos Campos Formosos."
 249 grm. Meteorite, "Elm Creek."
 15.4 grm. Meteorite, "Hayden Creek."
 4500 grm. Meteorite, "Imilac."
 4 grm. Meteorite, "Le Teilleul."
 8800 grm. Meteorite, "Mt. Edith."
 13.7 grm. Meteorite, "Persimmon Cr'k."
 13 grm. Meteorite, "Quinn Canyon."
 479 grm. Meteorite, "Rio Arriba Co."
 1093 grm. Meteorite, "Sams Valley."
 21 grm. Meteorite, "Schwetz."
 58 grm. Meteorite, "South Bend."
 17 grm. Meteorite, "St. Mark's."
 21 grm. Meteorite, "St. Mesmin."
 10 grm. Meteorite, "Uberaba."
 7.5 grm. Meteorite, "Wairarapa."
 5 grm. Meteorite, "Zsadaný."
 8279 grm. Holbrook Meteorite.
 2599 grm. Ness County Meteorite.
 720 grm. Native Iron in Basalt, Bühl, Germany.
 Block Orbicular Granite, Craftsbury, Vt.
 7 Specimens Orbicular Granite, Sweden.
 70 Fossils, Patagonia.
 3 Specimens hard peat turf, twelve feet below the present surface, County Tipperary, Ireland.
 A number of selenite crystals, Utah, and a series of products from Great Salt Lake.
 Slab and its counterpart of Triassic sandstone showing footprints and ripple marks, West Orange, N. J.
 Schrammen Collection of fossils of 4517 specimens from northwestern Germany.
 Volcanic ash, pumice and bombs, Japan.

THROUGH MUSEUM EXPEDITIONS.

- Collection of fossils from Belly River, Canada. Collected by Barnum Brown.
 Collection of fossils from Oklahoma. Collected by Chester A. Reeds.
 Collection of Stalagmites and Stalactites from Weyer's Cave, Grottoes, Va. Collected by Prentice B. Hill and William B. Peters.

DEPARTMENT OF MINERALOGY.

BY GIFT.

- J. W. BAKER, Pawtucket, R. I.
 14 Specimens of minerals, Rhode Island.
 BARNUM BROWN, New York City.
 18 Specimens Radiating Crystallized Quartz, Red Deer River, Alberta, Canada.

- MATILDA W. BRUCE FUND.
 138 Specimens of minerals.
 LAZARD CAHN, New York City.
 1 Specimen Manganosite, Franklin Furnace, N. J.
 ALEXANDER CAMACHO, Island of Antigua, British West Indies.
 1 Specimen Calcite, St. Johns, Antigua.
 CHARLES DANZIGER, New York City.
 Specimen Calcite in Gypsum, Great Notch, N. J.
 HENRY G. D. DE MELI, New York City.
 10 Specimens Sicilian Amber.
 MRS. W. R. GRACE, Gracefield, L. I.
 25 Specimens Copper ore.
 P. H. HASKELL, Richmond, Va.
 Collection of Garnets and 1 large specimen Schist.
 ALFRED HAWKINS, Providence, R. I.
 77 Specimens Epidote, Pascoag, R. I.
 ROBERT HAYES, New York City.
 1 Specimen Graphite, New York.
 CHARLES HOADLEY, Englewood, N. J.
 1 Specimen Chalcopyrite from Ogdensburg, N. Y., and 1 specimen Hematite from Franklin Furnace, N. J.
 WILLIAM JONES, New York City.
 3 Specimens Arsenopyrite, Louise Co., Va.
 RALPH NICHOLS, Gilmore, Idaho.
 2 Specimens Gold in Limonite, Lemhi Co., Idaho.
 HENRY C. OBERT, Hawthorne, N. J.
 1 Specimen Thomsonite, West Paterson, N. J.
 P. J. OETTINGER, New York City.
 1,363 Specimens miscellaneous minerals.
 H. PAPKE, West Hoboken, N. J.
 1 Specimen Pectolite altered, and Hydrophane, Great Notch, N. J.
 M. D. ROTHSCHILD, New York City.
 1 Mica crystal, Virginia.
 THOMAS F. RYAN, New York City.
 10 Specimens uncut Diamonds, Kasai River, Congo, Africa.
 J. B. TYRRELL, Toronto, Canada.
 Broken fragments of Yukonite, Tagish Lake, Canada.

BY EXCHANGE.

- J. W. BAKER, Pawtucket, R. I.
 16 Specimens minerals, Rhode Island.
 KAZUYE KIBE, Japan.
 2 Specimens native Arsenic.

- ALBERT H. PETEREIT, New York City.
Calcite crystal, Joplin, Mo.; 8 Specimens
minerals, Franklin Furnace, N. J.
- GEORGE O. SIMMONS, Brooklyn, N. Y.
1 Specimen Barite, Rawhide, Nev.
- MILTON G. SMITH, New York City.
1 Specimen Wilkeite, Nevada,
- W. VERNADSKY, Petrograd, Russia.
16 Specimens of minerals, Russia.
- WARD'S NATURAL SCIENCE ESTABLISH-
MENT, Rochester, N. Y.
1 Specimen Pyroxmangite, Anderson
County, S. C.

BY PURCHASE.

- 14 Specimens of minerals, various localities.
1 Guide sketch Trap Quarries at Great
Notch and Paterson, N. J.

DEPARTMENT OF INVERTEBRATE
ZOOLOGY—INVERTEBRATES.

BY GIFT.

- D. ROY ADAMS, Boston, Ga.
1 Specimen *Telea polyphemus*.
- W. S. ADKINS, Fort Worth, Tex.
10 Hemiptera.
- G. W. J. ANGELL, New York City.
Insect from District of Columbia.
- C. WM. BEEBE, New York City.
13 Vials alcoholic material, chiefly insects.
- W. E. BOISE, New York City.
1 Crab and 1 small fish, Puget Sound.
- F. C. BOES, Brooklyn, N. Y.
Orthoptera, Ocean Park, Cal.
- HOWARTH S. BOYLE, Elmhurst, L. I.
A collection of invertebrates from New
York and Long Island.
- ROBERT BROOM, Glasgow, Scotland.
1 Centipede.
- T. L. CASEY, Washington, D. C.
Collection of insects from various localities.
- B. PRESTON CLARK, Boston, Mass.
55 Geometridæ, Mexico; 57 Sphingidæ,
various localities.
- T. D. A. COCKERELL, Boulder, Colo.
Collection of insects including many type
specimens from various localities.
- L. V. COLEMAN, Brooklyn, N. Y.
Insects, Indian Lake, N. Y.
- RUSSELL J. COLES, Danville, Va.
1 Pteropod Mollusk, Cape Lookout, N. C.
- WM. P. COMSTOCK, Newark, N. J.
Collection of insects, and specimens of
Lepidoptera, Hymenoptera and Diptera.
- WM. T. DAVIS, New Brighton, N. Y.
Collection of insects, Hungaria; Hymen-
optera, Hymers, Canada; and other in-
sects and Coleoptera, various localities.
- GEORGE B. DILL, Yonkers, N. Y.
Spider.
- R. P. DOW, Brooklyn, N. Y.
2 Weevils, Utah.
- J. H. EMERTON, Boston, Mass.
100 Spiders, Cornwall, N. H.
- E. A. FORD, New York City.
Collection of insects, Gaboon, Africa.
- J. B. FOULKE, Babylon, L. I.
Bumblebee nest made in old bird nest.
- A. D. GABAY, New York City.
Sponge from Bahamas and Clam from
Woods Hole, Mass.
- J. H. GEROULD, Hanover, N. H.
Collection of *Cohias*.
- EDWARD D. HARRIS, New York City.
Collection of Beetles.
- J. ARTHUR HARRIS, Cold Spring Harbor
N. Y.
Collection of insects, Tucson, Arizona.
- W. E. HAVENS, New York City.
1 Specimen *Buprestis lineata*.
- THE HEYE MUSEUM, New York City.
10 Vials of insects and myriapods from
Santo Domingo.
- DUNCAN JOHNSON, Baltimore, Md.
1 Annulate, Jamaica.
- FRED KESSLER, New York City.
Ascidians and an amphipod, New York.
- ARTHUR M. LEA, Adelaide, Australia.
Coleoptera, Australia.
- C. W. LENG, New York City.
Collection of insects, various localities.
- FRANK E. LUTZ, Ramsey, N. J.
3 Myriapods.
- J. R. MALLOCH, Urbana, Ill.
Collection of Diptera including 15 para-
types.
- J. D. MALLONEE, Mount Vernon, N. Y.
Specimen Cicada.
- MANHATTAN RUBBER MANUFACTURING CO.,
Passaic, N. J.
Specimen of *Scolopendra subspinipes*.
- APOLINAR MARIA, Bogota, Colombia.
Insects and Scorpions, Colombia.

- A. D. MELBADO, Panama.
1 Insect from Panama.
- LEO E. MILLER, Brazil, S. A.
Large collection of insects and spiders,
British Guiana.
- W. A. MURRILL, New York City.
Collection of Lepidoptera from Blacks-
burg, Va.
- ALAN SLOAN NICOLAY, Brooklyn, N. Y.
8 Buprestidæ.
- NEW YORK BOTANICAL GARDEN, New York
City.
Collection of land shells and fossils,
Vieques, W. I.
- NEW YORK ZOÖLOGICAL SOCIETY, through
NEW YORK AQUARIUM, New York City.
1 Large Lobster, Cranberry Isles, Me., and
1 Land Crab.
- MISS ANITA OHRTMANN, New York City.
2 Horseshoe Crabs, Greens Farms, Conn.
- MRS. E. G. PECKHAM, Milwaukee, Wis.
49 Vials of spiders from the Neotropics.
- MRS. FRANCIS VON R. PHELPS, Englewood,
N. J.
1 Beetle, Culpepper Co., Va.
- CHARLES T. RAMSDEN, Guantanamo, Cuba.
Collection of insects, Cuba.
- SIDNEY SARGENT, New York City.
2,060 Insects.
- F. SAVAGE, New York City.
1 Egyptian Scarab and 1 Mosquito.
- J. A. SHAFER, New York City.
10 Land shells, Sierra de Naguabo, Porto
Rico.
- H. J. SHANNON, Jamaica, N. Y.
14 Hymenoptera, Europe.
- ERNEST SHOEMAKER, Brooklyn, N. Y.
19 Coleoptera and Heteroptera.
- ALANSON SKINNER, Tompkinsville, N. Y.
Collection of insects, Oklahoma.
- MRS. ANNIE T. SLOSSON, New York City.
12 Slide mounts of insects.
- JANE STEPHENS, Dublin, Ireland.
2 Vials of fresh water sponges, Ireland.
- A. H. STURTEVANT, New York City.
5 Drosophilidæ, Guantanamo, Cuba.
- L. SWETT, Boston, Mass.
1 Hermaphroditic Gypsy Moth, Bedford,
Mass.
- FREDERICK TAYLOR, Brooklyn, N. Y.
1 Large Sponge, Florida Keys.

- AARON L. TREADWELL, Poughkeepsie, N. Y.
15 Species of identified annulates includ-
ing cotype of *Trypanosyllis adamanteus*
Treadwell.
- MISS L. WARD, Germantown, Pa.
Larva of insect attached by fungus, New
Zealand.
- F. E. WATSON, New York City.
Collection of 1,700 Lepidoptera and other
insects, including 6 paratypes, various
localities.
- MANFRED P. WELCHER, New York City.
1 Specimen of coral (*Oculina* sp.)
- GEORGE WETHERSPOON, New York City.
9 Specimens (echinoid and corals).
- R. C. WILLIAMS, Jr., Philadelphia, Pa.
18 Specimens of butterflies, Jemez Springs,
N. Mex.

BY EXCHANGE.

- E. CHESLEY ALLEN, Nova Scotia.
40 Specimens Geometridæ, Nova Scotia.
- DURBAN MUSEUM, Natal, Africa.
Collection of Lepidoptera, Neuroptera and
other insects, 11 Scorpions, 5 annulates,
South Africa.

BY PURCHASE.

- 170 Insects, various localities.
186 Floridian Coleoptera.
4,000 Specimens identified Coleoptera.
Pearsall Collection of 15,000 insects, chiefly
Geometridæ.
12 Microscopic slides of mounted Rotifera,
prepared by C. F. Rousselet.
344 Hesperiidæ, British Guiana and Peru.

THROUGH MUSEUM EXPEDITIONS.

- 1 Crab and 1 worm, Ushuia, Terra del
Fuego. Collected by Barnum Brown.
- Collections of mollusks, insects, myria-
pods, spiders and fossils from Porto
Rico. Collected by Henry E. Crampton.
- Collection of insects from Santo Domingo.
Collected by F. H. M. DeBooy.
- Collections of invertebrates from Cali-
fornia and Colorado. Collected by
Daniel Moore Fisk.
- Collection of invertebrates from Porto
Rico, Desecho and Mona. Collected
by Frank E. Lutz.
- Collection of isopods and myriapods from
New York and New Jersey. Collected
by Frank E. Lutz.

1 Centipede, larva of moth and 3 land crabs from Brazil. Collected by Leo E. Miller. Roosevelt Expedition.

Collection of invertebrates, Porto Rico and Leeward Islands, Dominica. Collected by Roy W. Miner.

Collection of identified annulates, including 12 cotypes, from California, Florida and Bahamas. Collected by Aaron L. Treadwell.

Collection of invertebrates from the Lesser Antilles and South Georgia Island. Collected by Robert C. Murphy.

Collection of insects, Porto Rico. Collected by F. E. Watson and H. G. Barber.

Collection of invertebrates from west coast of Florida. Collected by Louis Hussakof.

MOLLUSKS.

BY GIFT.

- S. BEVIN, New York City.
Many *Macoma fusca*, Long Island.
- W. E. BOISE, New York City.
2 Specimens *Calliostoma annulatum* Martyn.
- MRS. N. L. BRITTON, New York City.
70 Specimens *Cylinderellas (Urocoptis)*, Cuba.
- N. L. BRITTON, New York City.
36 Specimens *Pezilozonites bermudensis* Pf.
- BARNUM BROWN, New York City.
Shells from a small alkaline lake at Brooks, Alberta.
- E. E. M. BULLOWA, New York City.
Shells from Paraguay and Chile.
- GEORGE W. CHAMBERLAIN, New York City.
Very large Oyster shell, Connecticut.
- A. D. GABAY, New York City.
Dissected shell.
- A. DA COSTA GOMEZ, New York City.
4 Deformed or abnormal shells.
- MRS. W. R. GRACE, New York City.
500 Miscellaneous sea shells.
- GERRARD P. HERRICK, New York City.
Large egg-shaped pinkish Pearl from hard-shell clam.
- MR. and MRS. FREDERICK F. HUNT, New York City.
Groups of Coon Oysters and a collection of Florida shells.

CHARLES LANG, New York City.

Large nidamental ribbon of shore whelk.

G. C. LONGLEY, New York City.

Collection of Shells, Jamaica, West Indies

RUSSELL HASTINGS MILLWARD, New York City.

Collection of Pearls, Mexico.

CHARLES T. RAMSDEN, Guantanamo, Cuba.

Land Shells from Cuba.

GEORGE WETHERSPOON, New York City.

Collection of marine shells.

SILAS C. WHEAT, New York City.

Acmaea fergusonii Wheat, Hempstead Bay, L. I.

BY PURCHASE.

25 Photographs of shell habitats.

224 Specimens of shells.

1 Specimen *Pleurotomaria salmiana*, Rolle, Japan.

Model illustrating anatomy of lamelli-branch.

Collection of alcoholic specimens of Mediterranean mollusks, showing animal and shell.

Small collection comprising 56 species of land shells.

THROUGH MUSEUM EXPEDITION.

40 Specimens of land shells, 30 specimens of fresh water shells, Coyaba River, Matto Grosso, Brazil.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY.

FISHES.

BY GIFT.

AQUARIUM SOCIETY, New York City.

3 Aquarium fishes.

W. L. BRIND, Bergenfield, N. J.

9 Aquarium fishes.

ROBERT BROOM, Glasgow, Scotland.

7 Fossil fishes, Orange Free State, South Africa.

ERNEST CLIVE BROWN, Copake, N. Y.

10 Fresh-water fishes, Copake.

RUSSELL J. COLES, Danville, Va.

Small collection of sharks, rays and bony fishes; specimen of *Scoræna* and 2 Butterfly Rays, Cape Lookout, N. C.

W. H. COLLINS, Haverford, Pa.

18 Fossil fishes (including 5 types) belonging to Second Cope Collection.

- LEE S. CRANDALL, New York City.
Collection of 24 fishes, Central America.
- DEPARTMENT OF INVERTEBRATE ZOOLOGY, Transfer.
4 Small Gobies, Porto Rico.
- DEPARTMENT OF MINERALOGY, Transfer.
Fish teeth.
- DEPARTMENT OF VERTEBRATE PALAEONTOLOGY, Transfer.
200 Fossil sharks' teeth, vertebræ, etc., and jaw and vertebræ of a Mackerel Shark, Bowman, S. C.; fossil fish remains, Alberta, Can.
- CLEVELAND H. DODGE FUND.
265 Sharks and other fishes, Japan; 3 mounted fishes, Nassau, Bahama Islands; 65 fresh-water fishes, Ecuador; 3 fossil fishes, Orkney Islands; 2 Dogfish and 2 Hound Sharks, Woods Hole, Mass.; 6 fossil fishes from Germany.
- RICHARD DORN, Upper Montclair, N. J.
54 Aquarium fishes.
- MRS. WM. H. GRANBERY, New York City.
Saw of Sawfish.
- F. CHAPMAN GRANT, Eagle Pass, Texas.
8 Fishes, Eagle Pass.
- W. ALEXANDER GRIFFITH, Quebec, Canada.
2 Marston's Trout, Lake Cassette, Can.
- MISS M. F. HAZELL, Bailey Island, Me.
7 Mackerel and 1 Butterfish, Bailey Island.
- WILLIAM HELMUTH, East Hampton, L. I.
2 Flatfish, East Hampton.
- GEORGE G. HEYE, New York City.
3 Gobies, Cuba and Haiti.
- FRED KESSLER, New York City.
1 Alewife and 12 Anchovies, Hudson River.
- WILLIAM MACK, New York City.
8 Glorious Minnows and 6 Goldfish.
- MERCHANTS' CLUB, through Wm. Mahoney, New York City.
1 Snook, 1 Houndfish and 1 Halfbeak.
- LOUIS L. MOWBRAY, New York City.
2 Angelfish, Key West, Fla.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
1 Alligator gar, 1 Angelfish, 1 Crab-eater, 1 Dogfish, 1 Monkfish, 10 Skates, 1 Margatefish. Total, 16 specimens received from the New York Aquarium.
- JOHN TREADWELL NICHOLS, Englewood, N. J.
1 Shark and teeth and skin of Dusky Shark, also 2 fish skeletons and 1 skeleton jaw, Oyster Bay, N. Y.
- J. W. T. NICHOLS, New York City.
1 Starry Flounder.
- WILLIAM B. NICHOLS, Oyster Bay, N. Y.
1 Mackerel, Cold Spring Harbor, L. I.
- P. S. PARKER, Otis, Mass.
Large Eel skin, Tarrington River, Mass.
- E. E. PETERSEN, New York City.
Skeletons of jaws of three fishes, Chile, S. A.
- HENRY RUOF, New York City.
1 Burrfish, 1 Cowfish.
- FREDERICK SCHNEIDER, Brooklyn, N. Y.
25 Aquarium fishes.
- H. A. SILVERNAIL, New York City.
1 Dried Tarpon skin, Tampico, Mex.
- WARREN B. TRAVELL, New York City.
Dried head of Paddlefish, Greeneville, Tenn.
- HENRY TRULL, New York City.
1 Sword-tail.
- MR. and MRS. F. A. VANDERLIP, New York City.
Mounted Tarpon.
- BERNARD ZETTL, Brooklyn, N. Y.
Pharyngeal teeth of Ladyfish.
- CARL ZEUMER, New York City.
Tail and embryo of Sting Ray, Costa Rica.

BY EXCHANGE.

- PRINCETON UNIVERSITY, Princeton, N. J.
8 Fishes, Greenland.
- SCOTTISH OCEANOGRAPHICAL LABORATORY, Edinburgh, Scotland.
7 Dried fishes from the Antarctic.
- SENCKENBERGISCHE NATURFORSCHENDE GESELLSCHAFT, Frankfort, Germany.
2 Acanthodians, Lebach, bei Saarbrücken, Germany.
- WESTERN AUSTRALIAN ART GALLERY, Perth, Australia.
8 Fishes, Australia.

THROUGH MUSEUM EXPEDITIONS.

- 30 Specimens of fossil sharks and Arthrodires from the Cleveland shale of Ohio. Collected by Louis Hussakof.
- Plaster molds of 2 Devilfish (*Manta birostris*); sections of the two specimens and various sharks and rays taken on the expedition on the west coast of Florida. Collected by Louis Hussakof, Russell J. Coles and J. C. Bell.

Collection of 281 fishes from Long Beach, L. I. Collected by John T. Nichols and Fred Kessler.

Collection of 30 fishes from Far Rockaway, L. I. Collected by John T. Nichols and Frederick H. Stoll.

Collection of 294 fishes from Porto Rico, including 22 species new to the island, two of which are new to science. Collected by John T. Nichols.

Collection of fish bones and skeletons from Moriches Beach, L. I. Collected by John T. Nichols.

AMPHIBIANS AND REPTILES.

BY GIFT.

HOWARTH S. BOYLE, Elmhurst, L. I.
Bull Frog, Flushing, L. I.

W. H. DAVIS, Winter Haven, Fla.
3 Gopher Tortoises and 3 snakes, Florida.

DEPARTMENT OF PARKS, New York City.
1 Snake.

ALESSANDRO FABBRI, Bar Harbor, Me.
1 Salamander, Maine.

E. A. FORD, New York City.
2 Snakes, Gaboon, Africa.

D. S. GIFFORD, Oakland, Cal.
4 Salamanders, California.

W. DEW. MILLER, Plainfield, N. J.
1 Snake, Long Island.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

13 Snakes, 9 turtles, 12 lizards, and 1 caiman—Total, 35 specimens received from New York Zoölogical Park.

JOHN TREADWELL NICHOLS, Englewood, N. J.

1 Snake and 1 turtle, Mastic, L. I.

BY PURCHASE.

13 Lizards, 21 snakes and 30 amphibians from foreign countries.

THROUGH MUSEUM EXPEDITIONS.

1 Snake and 5 lizards, Dominica and Fernando de Noronha. Collected by Robert C. Murphy.

2 Snakes, 24 lizards and 35 amphibians, Porto Rico. Collected by J. T. Nichols.

31 Snakes, 4 lizards, 1 turtle and 3 tree frogs, Brazil and Paraguay. Collected by Kermit Roosevelt and Leo E. Miller on Roosevelt Expedition.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

MAMMALS.

BY GIFT.

H. L. ALDRICH, New York City.
4 Walrus tusks.

MRS. A. G. BROWN, New York City.
Long hair Chihuahua Dog.

L. C. BULKLEY, New York City.
22 Mammals from Siam.

S. H. CHUBB, New York City.
Red Bat, in the flesh.

JAMES L. CLARK, New York City.
Body skin of Ibex, Siberia.

W. R. COE, New York City.
5 Bear skulls.

DEPARTMENT OF PARKS, New York City.

9 Monkeys, 1 Lamb, 1 Lemur, 1 Baboon, 1 Angora Goat, 1 Squirrel, 1 Ocelot, 2 Red Foxes, 1 Mandrill, 1 Wild Boar, 2 Young Elks, 1 Virginia Deer, 1 Fallow Deer, 1 Coyote, 2 Baby Lions, 1 Lion Cub, 1 Zebu Cow, 1 Zebu Calf, 3 Black Bears, 2 Tigers. Total, 34 specimens received in the flesh from the Central Park Menagerie.

LA CONDESA BEATRICE DE TAVARA, White Plains, N. Y.

Maltese Terrier. (14 years old.)

JONATHAN DWIGHT, JR., New York City.
12 Small mammals, New Jersey.

E. A. FORD, New York City.
3 Bats and 1 Shrew, Gaboon, Africa.

MRS. L. B. GARRETT.
1 Brown Bat.

MRS. CLIFFORD B. HARMON, New York City.

Mounted Siamese Cat.

JOHN HELMUTH, New York City.
1 Skunk, Ridgefield, Conn.

FRED HUBER, Gatun, C. Z.
Skin and skull of Sloth.

APOLINAR MARIA, Bogota, Colombia.
16 Small mammals, Bogota.

ROBERT C. MURPHY, Brooklyn, N. Y.
Skin and skull of Varying Hare and 2 Red Squirrels, Nova Scotia.

ELMER MUSTARD, New York City.
Black Squirrel, Kingston, Ontario.

NATIONAL ASSOCIATION OF AUDUBON SOCIETIES, New York City.

Cased skin of Weasel in transition coat, Simpson, Saskatchewan.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

1 Baboon, 2 Chimpanzees, 2 Orang-utans, 1 Woolly Monkey, 1 Gibbon, 1 Anteater, 1 Aard Vark, 1 Manatee, 2 Porpoises, 1 Jaguar, 1 Red River Hog, 1 Phalanger, 1 Walrus. 1 Asiatic Deer, 1 Mouse Deer, 1 Kadiak Bear, 1 Giraffe, 1 Camel. Total, 21 specimens received in the flesh from the New York Aquarium and the New York Zoological Park.

MR. and MRS. J. C. PARKER, New York City.

2 Four-days-old Chihuahua Puppies in alcohol.

PAUL J. RAINEY, New York City.

46 Skins and osteological material of African mammals.

L. C. SANFORD, New Haven, Conn.

21 Skins and skulls of small mammals from Queen Charlotte Islands, B. C.

MRS. ANNA VON B. SCARBOROUGH, New York City.

Owl Monkey, Gatun Lake, Panama.

ERNEST THOMPSON SETON, Greenwich, Conn.

Skins and skulls of British mammals.

H. H. SMITH, University, Alabama.

8 House Mice, Alabama.

J. W. STUART, Brooklyn, N. Y.

1 Albino Short-tailed Shrew, Germonds, N. Y.

H. E. SULLIVAN, New York City.

Great Dane Dog.

JOHN A. WILSON, San Juan, P. R.

1 Manatee, Porto Rico.

BY EXCHANGE.

BRITISH MUSEUM OF NATURAL HISTORY, London, England.

Skin and skull of Pigmy Squirrel, Peru.

10 Small mammals, England.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

4 Skins and skulls of mice, Asia.

BY PURCHASE.

50 Small local mammals.

2 Mounted skins Harp Seal, Newfoundland.

Pigmy Sperm Whale skeleton and baby Pigmy in the flesh.

1 Melanistic Muskrat.

12 Specimens miscellaneous mammals.

5 Mountain Sheep, Montana.

2 Porpoises.

14 Skins California Ground Squirrel and accessories for group,

2 Squirrels, 1 Otter, skin and skull of Badger, 4 Natterer's Bats, and 2 Nodule Bats, England.

Skeleton of whale (*Neobalæna marginata*).

55 Skins and skulls of mammals, Ecuador.

53 Mammals, England.

Porpoise skeleton.

25 Small mammals, Colombia.

Skeleton of *Chiromys* for synoptic collection.

Skeleton *Actocephalus hookeri*, New Zealand.

3 Specimens Flying Marsupials.

THROUGH MUSEUM EXPEDITIONS.

125 Mammals from Panama. Collected by H. E. Anthony.

Caribou skin and skull from Newfoundland. Collected by R. E. Treman.

24 Mammals from Colorado. Collected by A. E. Butler.

450 Mammals from South America. Collected by Leo E. Miller on Roosevelt Expedition.

BIRDS.

BY GIFT.

ARCHIBALD A. ALEXANDER, New York City.

Skin of Pelican, eggs of Egret and Heron, Florida.

Letter of J. J. Audubon to Dr. R. Harlan.

ANONYMOUS.

Kingfisher, in the flesh.

M. ELIZA AUDUBON.

Painting, "Dog and Pheasants," by J. J. Audubon.

MRS. E. B. BABBITT, New York City.

Bird's egg from antarctic regions.

LINDON W. BATES, New York City.

Skin of Flamingo.

W. H. BERGTOLD.

Skins of Plover and House Finch.

B. S. BOWDISH, Demarest, N. J.

2 Parrots, in the flesh.

- HOWARTH S. BOYLE, Elmhurst, L. I.
1 Chimney Swift, 1 Flicker, 1 Whippoorwill, in the flesh; skin and sternum of Rail, 2 skins of Bobolink, 1 skin of Jaeger, 1 of Starling, 1 of Sandpiper, 3 of Shore-birds, 1 of Petrel, 1 of Dowitcher, 2 sterna of Terns, 1 skeleton of Plover and 1 young Plover in alcohol.
- ROBERT BROOM, Glasgow, Scotland.
Specimens South African bird bones.
- L. C. BULKLEY, New York City.
29 Birdskins and 2 Weavers' nests from Siam, including a pair of Argus Pheasants. Skull of Hornbill and 3 heads of birds.
- PHILIPP COHN, New York City.
4 Warblers, in the flesh.
- MISS A. E. COLLINS, New York City.
161 Birdskins, Baltimore Co., Maryland.
- DEPARTMENT OF PARKS, New York City.
6 Pheasants, 3 Partridges, 7 Parrots, 3 Peacocks, 1 Goose, 4 Swans, 12 Ducks, 2 Guinea Fowls, 1 Toucan, 1 Cockateel, 1 Owl, 1 Gull, 1 Hawk, 12 song-birds.—Total, 55 specimens received in the flesh from the Central Park Menagerie.
- ROGER DONOHO, New York City.
Mounted Robin.
- JONATHAN DWIGHT, Jr., New York City.
2 Warblers, in the flesh; torso skeleton of Woodcock.
- WALTER ESCHERICH, New York City.
Skins of 29 song-birds and 1 Sandpiper.
- THE COUNTESS E. FESTETICS.
21 Skins of Hummingbirds.
- G. C. FISHER, New York City.
Skin of Ruffed Grouse, Washington, Conn.
- WILLIAM FLOYD, Mastic, L. I.
1 Coot, in the flesh; 3 skins of Greater Yellow-legs.
- MISS E. L. FOOTE, New York City.
Sparrow Hawk, in the flesh.
- WILLIAM H. HALL, Binghamton, N. Y.
Eggs of Loon.
- G. K. HARDENBERGH, Bay Head, N. J.
2 Skins of King Eider.
- ARTHUR O. HEINRICH, Baldwin, N. Y.
Hawk, Sandpiper and Rail, in the flesh.
- JOHN HELMUTH, New York City.
2 Woodpeckers, in the flesh, Highlands, N. J.
- JOHN H. HENDRICKSON, Freeport, L. I.
Ruff, in the flesh, Long Island.
- GEORGE E. HIX, New York City.
Gull, in the flesh.
- WHITING HOLLISTER, New York City.
Yellow-bellied Sapsucker, in the flesh, Highlands, N. J.
- E. C. LOBENSTINE, Shanghai, China.
Egg of Ostrich.
- WILLIAM N. MACARTNEY, Fort Covington, N. Y.
Richardson's Owl, in the flesh.
- APOLINAR MARIA, Bogota, Colombia.
21 Passeres, 1 Hummingbird, 1 Woodpecker and 1 Hawk, in the flesh.
- ELIZABETH LEE MATTHEW, Hastings-on-Hudson, N. Y.
Tennessee Warbler, in the flesh.
- C. B. MAYO, Annapolis, Md.
2 Mounted Grouse, Australia.
- W. DEW. MILLER, Plainfield, N. J.
1 Parrot, 1 Sapsucker, 1 Pigeon, 2 Parakeets, 11 song-birds, in the flesh.
- MONMOUTH FARMS, Frenau, N. J.
Osprey, in the flesh.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.
1 Curassow, 2 Partridges, 1 Grebe, 2 Turacous, 1 Nandu, 1 Bee-eater, 1 Trumpeter, 1 Bob-white, 1 Kite, 1 Roller, 1 Coot, 1 Motmot, 2 Bustards, 4 Pigeons, 2 Toucans, 1 Penguin, 2 Hawks, 1 Eagle, 1 Stork, 1 Pitta, 1 Heron, 1 Owl, 1 Fish Owl, 1 Gallinule, 8 Parrots, 14 Song-birds.—Total, 54 specimens received in the flesh from the New York Zoölogical Park.
- JOHN TREADWELL NICHOLS, Englewood, N. J.
Barred Owl, in the flesh.
- T. E. PENARD, Boston, Mass.
2 skins of Oropendola.
- WILLIAM PERCY, London, England.
9 Birdskins from England.
- J. P. PHILLIPPS, Fairview, N. J.
Hawk, in the flesh.
- MRS. DANIEL RAPALJE, Plainfield, N. J.
8 Small song-birds, South China.
- CHARLES H. ROGERS, New York City.
Plover, in the flesh.
- THEODORE ROOSEVELT, Oyster Bay, L. I.
1,074 Birdskins, 3 birds in alcohol, 7 sterna and shoulder girdles, 19 eggs and 7 nests.

LOUIS RUHE, New York City.
1 Montezuma Quail, 1 Parrot, 2 Toucans
and 1 Starling.

L. C. SANFORD, New Haven, Conn.
Skins of 1 Red-tailed Hawk, 1 Prairie
Hen and 2 Great Horned Owls.

GEORGE H. F. SCHRADER,
25 Birds' eggs including 11 species, Ice-
land.

G. SEBILLE, New York City.
Macaw, in the flesh.

CHARLES SHELDON, Woodstock, Vt.
Nest, 3 eggs and accessories of Golden-
crowned Kinglet, Woodstock, Vt.

HAROLD SWAIN, New York City.
Horned Lark, in the flesh.

HENRY THURSTON, Floral Park, L. I.
2 Redstarts, in the flesh.

ARTHUR TIETENBERG, New York City.
Catbird, in the flesh.

HENRY H. TRAVERS, Wellington, New Zea-
land.
Embryo of Kiwi.

EUNICE VAIL, Windsor, N. Y.
2 Prairie Horned Larks, in the flesh.

JUSTUS VON LENGERKE, New York City.
50 Hawks and 1 Fish Crow, in the flesh.

ERNEST H. WANDS, New York City.
26 Skins of Hummingbirds and 2 skins of
Cocks-of-the-Rock, South America.

ARTHUR WESTON, Hempstead, L. I.
Osprey, in the flesh.

WILLIAM WIEGMANN, New York City.
White-throated Sparrow, in the flesh.

BY EXCHANGE.

MUSEUM OF COMPARATIVE ZOOLOGY, Cam-
bridge, Mass,
22 Birdskins from tropical America.

BY PURCHASE.

105 Birdskins, Merida, Venezuela.
1 Skeleton each of Weka Rail, Secretary
Bird and Owl Parrot, and egg of Kiwi.
189 Birdskins, Colombia.
Cast and photograph of *Archaeopteryx*.
1276 Birdskins from Ecuador.
15 Miscellaneous bird skeletons.
35 Birdskins from Peru.
3 Skeletons of Kiwi.

THROUGH MUSEUM EXPEDITIONS.

32 Birdskins from Colorado. Collected by
A. E. Butler.

271 Birdskins from Brazil and Paraguay.
Collected by George K. Cherrie on
Roosevelt Expedition.

DEPARTMENT OF VERTEBRATE
PALÆONTOLOGY.

BY GIFT.

ROBERT BROOM, Glasgow, Scotland.
18 Specimens of mammals from Pleisto-
cene of Australia.

WARREN DELANO, New York City.
2 Heads of modern Horse.

W. D. HERBERT, Eagle Pass, Tex.
Sacral rib of a small dinosaur.

D. A. SUTHERLAND, Ruby, Alaska.
Milk tooth of Siberian Mammoth.

UNIVERSITY OF GÖTTINGEN, Göttingen,
Germany.
Cast of vertebræ of Triassic reptile *Cteno-
saurus*.

CASPAR WHITNEY, New York City.
Claw of *Myiodon* from Rancho La Brea,
Los Angeles, Cal.

BY EXCHANGE.

AMHERST COLLEGE, Amherst, Mass., through
Dr. F. B. Loomis.
Collection of fossil mammals from the
Deseado formation of Patagonia.

PALÆONTOLOGICAL MUSEUM, Munich Uni-
versity, Germany, through Dr. Max
Schlosser.
Collection of fossil ruminants from the
Miocene of Samos and Pikermi, Greece,
and collection of fossil mammals from
Europe and China.

UNIVERSITY OF CALIFORNIA, Berkeley,
Cal., through Dr. J. C. Merriam.
Skeletons of Sabre-tooth Tiger and Extinct
Wolf, skulls of great American Lion
and extinct Pacific Horse, from asphalt
beds of Rancho La Brea, Los Angeles,
Cal.; skull and jaws of extinct Sirenian
Rhytina stelleri.

UNIVERSITY OF GÖTTINGEN, Göttingen,
Germany, through Dr. W. Freudenberg.
4 casts of fossil mammals from the Plio-
cene of Mexico.

BY PURCHASE.

The Broom Collection of South African Fossil Reptiles, comprising 58 types and more than 200 important specimens, chiefly skulls and skeletons of the ancient reptiles of the Karroo formation in South Africa.

Cast of brain-case of *Homo aurignacensis hauseri*.

THROUGH MUSEUM EXPEDITIONS.

Eight skeletons of dinosaurs from the Belly River formation, Cretaceous of Alberta, in addition to several skulls, parts of skeletons, etc. Collected by Barnum Brown.

Four or five skeletons, more or less complete, of the "Clawed Ungulate" *Moropus*, from the Lower Miocene of Nebraska. Collected by Albert Thomson.

DEPARTMENT OF
ANTHROPOLOGY.

BY GIFT.

C. C. ABBOTT, Trenton, N. J.
Argillite implements from "Yellow Drift," Trenton, N. J.

RICHARD M. ABBOTT and ALBERT MOYER, Bristow, Pa.

Fragments of pottery, bone and shell, arrow point, etc., from near Trenton, N. J.

H. L. ALDRICH, New York City.
Seal spear, Eskimo.

ANONYMOUS.

Ethnological collection from Alaska, Aleutian Islands, Northwest Coast, South America and Abyssinia.

NATHANIEL S. BENTZ, Catskill, N. Y.
Stone implement found on Catskill Creek, Cooksburg, N. Y.

EDWIN M. BETTS, JR., Morris Plains, N. J.
Collection of pottery fragments gathered about two miles west of Morris Plains, N. J.

W. R. BLACKIE, Ardsley, N. Y.
Bow and four arrows from headwaters of the Amazon River, South America.

MISS IDA BLESSIN, New York City.
Arrow-head found on East River near 84th Street, New York City.

MISS LUCY R. BLISS.

Model of kayak, Aleutian Islands.

REGINALD PELHAM BOLTON, New York City.
Archæological specimens from "The Seven Pines Battlefield," near Richmond, Va., and from the "Crater Battlefield," Petersburg, Va.

ROBERT BROOM, Glasgow, Scotland.
Bushman archæological and ethnological specimens, Smithfield, Orange Free State, South Africa.

BARNUM BROWN, New York City.
Stone maul, Alberta, Canada.

LUCIUS C. BULKLEY, New York City.
Blowgun, quiver and arrows, from Siam.

D. BRYSON DELAVAN, New York City.
Archæological collection from Moosehead Lake, Mt. Kineo, Me.

DEPARTMENT OF MAMMALOGY, Transfer.
Human skeleton.

G. P. DE PASS, Mayaguez, Porto Rico.
Stone adze from Porto Rico.

G. T. EMMONS, Princeton, N. J.
Fishing outfit from Fiji Islands and stone implements from Columbia River about Goldendale, Washington.

A. D. GABAY, New York City.
Tapa cloth from Pago-Pago, Samoa.

N. GILBERT, New York City.
Paddle from the San Blas Indians, Panama.

MRS. W. H. GRANBERY, New York City.
4 Chinese dolls.

M. GUGGENHEIM'S SONS, New York City.
13 Prehistoric objects from the "Chuquicamata Mine," Chuquicamata, Chile.

LOUIS HAFNER, New York City.
Plaster cast of a totem pole.

M. R. HARRINGTON, Philadelphia, Pa.
Rubbing stone found on Seaman Ave., New York City.

GEORGE G. HEYE, New York City.
Potsherds found at Montague, N. J.

HORACE HILL, Orange, N. J.
6 Specimens from the ruins of Mitla, Mexico.

A. D. JUILLIARD, New York City.
A large series of Peruvian textiles and feather-work, and pottery of the Nazca type.

MISS ANNE W. LARZELERE, Auburn, N. J.
Potsherds and fragments of a clay pipe from Oldman's Creek, Salem Co., N. J.

- GEORGE C. LONGLEY, Pelham Manor, N. Y.
Archæological collection from the Island of Jamaica; 2 stone idols, 1 metate and hand stone and a small collection of pottery from Costa Rica.
- F. E. LUTZ, Ramsey, N. J.
Double-headed grooved club, Espy, Pa.
- MRS. AMOS BUSH McNAIRY, Cleveland, Ohio.
Buffalo robe, quill-worked, Plains Indians.
- MRS. JOHN MAGEE, Wampus, Mt. Kisco, N. Y.
Tibetan "sacred apron" made of portions of human bones. Found by a British officer of the Younghusband Expedition to Lhasa, 1903-1904, in the largest temple of Lhasa, Tibet.
- MRS. R. L. MERWIN, Christensted, St. Croix, D. W. I.
String of "Job's Tears."
- OGDEN MILLS, New York City.
Beaded bandolier from Delaware Indians.
- RUSSELL HASTINGS MILLWARD, New York City.
Hammock from the Carare Indians, Colombia, S. A.
Wood carvings from Bogota, Colombia.
Archæological and ethnological collections from British Honduras.
- CLARENCE B. MOORE, Philadelphia, Pa.
Skeleton of Indian dog. Found at Baugh's Landing, on Tennessee River, Alabama.
- THOMAS ANCRUM MOORE and WALTER F. WILLIS, New York City.
2 arrow-heads and 1 celt, South Carolina.
- MRS. W. H. MORRIS, Astoria, L. I.
Hawaiian spear.
- FRANCIS C. NICHOLAS, Tucson, Arizona.
Fragments of pottery and shell and a stone slab found about 20 miles southwest of Tucson.
- MISS GRACE NICHOLSON, Pasadena, Cal.
Miniature basket from Pomo Indians, California.
- A. OPERTI, New York City.
Historical relics from the Lady Franklin Expedition, found at Cape Sabine, and from the Peary Arctic Expedition, found at Bowden Bay, North Greenland.
- MISS MARY A. PHILLIPS, New York City.
Tapa cloth from Samoa; bone ornament from Hawaii.
- R. RASMESSEN, Tucson, Ariz.
Hunting fetich, Zuni.
- MRS. CARRICK RIGGS, New York City.
1 Navajo and 2 Mexican figures modeled in wax.
- WM. H. ROCKWOOD, New York City.
Eskimo drawings from Greenland.
- REMINGTON SCHUYLER, Shady, N. Y.
"Turtleback" of Argillite (?), Pelham Bay Park.
- MISS ELIZABETH COCHRANE SEAMAN, New York City.
Bridle, saddle, cap, purse, moccasins, feather, garters, from North American Indians.
- FRANZ SIGEL, JR., New York City.
3 Hats, 3 miniature hats, 2 belts, 1 doll, 1 pair of socks, all worked in worsted.
- C. M. SPAULDING, New York City.
Stone maul from Holt Co., Neb.
- LESLIE SPIER, New York City.
Worked quartzite nodule from Seaman Avenue, Inwood, N. Y.
- HERBERT J. SPINDEN, New York City.
Sheet containing facsimiles of Indian drawings.
- MRS. WILLIAM E. TIFFANY, Rice, Arizona.
Basket from the Thompson River Indians.
- F. H. UPTON, Montrose, Pa.
Archæological collection from Susquehanna Co., Pa.
- MISS ALICE WELLES, New York City.
6 Pottery vessels from Guadalajara, Mexico.
- CARL H. ZEUMER, New York City.
Animal figure in clay, Santa Marta, Colombia.

BY EXCHANGE.

- W. R. BLACKIE, Ardsley, N. Y.
Cylindrical basket with cover.
Granite boulder chipped in the form of a human head and several pottery fragments from New Jersey.
- ROBERT BROOM, Glasgow, Scotland.
1 Bushman and 1 Kaffir skull.
- G. T. EMMONS, Princeton, N. J.
Ethnological specimens from United States, British Columbia and Alaska.
- ANTONIO CARLOS SIMOENS DA SILVA, Rio de Janeiro.
Stone implement found in State of Bahia, Brazil.

BY PURCHASE.

- Bow from Mohawk Indians.
 1 Sealskin, 1 bone cup, 5 pieces of seal intestines.
 147 Specimens of pottery vessels, arrow points, beads, axes, skulls, etc., from Utah.
 Feather blanket from California.
 Ethnological specimens from the South Sea Islands.
 15 Baskets from Alaska.
 2 Pottery vessels and an ax from shell mounds in Florida.
 6 Arrows from Perantin, South America; 2 arrows from the Plains.
 Ethnological and archæological specimens from the Penobscot, Malecite and Passamaquoddy Indians.
 Ethnological specimens from the Eastern Dakota.
 Archæological specimens from the Valley of Mexico.
 Ethnological specimens from Bolivia.
 Bone breaker and pestle.
 3 Indian saddles from Dakota and Pine Ridge, S. Dak.
 Ethnological collection from the Indians of Virginia.
 Cast of sculptured poniard made of reindeer horn, Laugerie Basse, Dordogne, France.
 Cast of mammoth handle of poniard of reindeer horn, Bruniquel, Tarn et Garonne, France.
 Ornamented wooden dish and stone adze from Lower Yukon.
 Casts of paleolithic specimens.
 2 Pieces of tapa cloth, South Sea Islands.
 Sea chart from the Marshall Islands.

THROUGH MUSEUM EXPEDITIONS.

- Ethnological collection from the Beaver Indians of Fort Vermilion and the Slavey Indians of Hay River. Collected by Pliny E. Goddard.
 Ethnological specimens from the San Carlos Apache of Arizona. Collected by Pliny E. Goddard.
 Ethnological collection from the Paiute Indians. Collected by Robert H. Lowie.
 Drum and drumstick from Pawnee Indians. Collected by James B. Murie.
 Ethnological collection from the Parecis and Nhambaquara Indians of Matto Grosso, Brazil. Collected by members of Roosevelt Expedition.

- Ethnological collections from the Eastern Sioux Indians of South Dakota and from the Kansa Indians of Oklahoma. Collected by Alanson Skinner.
 Archæological specimens from Trenton, N. J. Collected by Alanson Skinner and Leslie Spier.
 Archæological collection obtained in the course of excavation of a rock-shelter at Ardsley, N. Y. Collected by Leslie Spier.
 Ethnological collections from the Carib of British Honduras and the Valiente Indians of Panamá. Sculptures from Naranjo and Copan. Bows and arrows from the Lacandone Indians. Archæological collection from Wild Cane Cay, British Honduras. Collected by Herbert J. Spinden.
 Model of a hoe. Collected by Gilbert L. Wilson.
 Archæological collection from Pueblo ruins excavated in the Galisteo valley, New Mexico. Collected by N. C. Nelson.

DEPARTMENT OF PUBLIC HEALTH.

BY GIFT.

- BROWN UNIVERSITY, Providence, R. I.
 1 Bacterial culture.
 BUREAU OF ENTOMOLOGY, Washington, D. C.
 7 Specimens of Buffalo Gnats.
 BUREAU OF PLANT INDUSTRY, Washington, D. C.
 4 Bacterial cultures.
 CUTLER LABORATORY, Berkeley, Cal.
 3 Bacterial cultures.
 HYGIENIC LABORATORY, Washington, D. C.
 1 Bacterial culture.
 MICHIGAN AGRICULTURAL COLLEGE, East Lansing, Mich.
 1 Bacterial culture.
 NORTHWESTERN UNIVERSITY MEDICAL SCHOOL, Chicago, Ill.
 2 Bacterial cultures.
 OREGON AGRICULTURAL EXPERIMENT STATION, Corvallis, Ore.
 2 Bacterial cultures.
 PARKE, DAVIS & Co., Detroit, Mich.
 2 Bacterial cultures.
 RAYMOND PATTERSON, Middlesex, N. J.
 12 Specimens Malarial Mosquito.
 FRANK SCHOFIELD, Ontario, Canada.
 1 Bacterial culture.

TEXAS AGRICULTURAL COLLEGE, College Station, Tex.

Specimen of cowhide infested with Texas Fever Ticks.

1 Vial eggs and larvæ of Texas Fever Ticks.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C.

6 Specimens of Malarial Mosquito.

UNITED STATES PUBLIC HEALTH SERVICE, Washington, D. C.

2 Wood Rats and 4 California Ground Squirrels.

UNIVERSITY OF CALIFORNIA, Berkeley, Cal.

8 Bacterial cultures and 5 Yeast cultures.

WESTERN PENNSYLVANIA HOSPITAL, Pittsburgh, Pa.

1 Bacterial culture.

DEPARTMENT OF WOODS AND FORESTRY.

BY GIFT.

MRS. FRANCES E. FULLER, New York City.
Piece of Sequoia bark, California.

MRS. ELI HARVEY, New York City.
Chestnut fruits.

HERBERT MEAD, New York City.
7 Hand specimens Philippine Mahogany.

P. J. OETTINGER, New York City.
87 Specimens of Mexican woods.

A. J. ORNER, Mount Silinda, South Rhodesia, Africa.

20 Specimens of woods, South Rhodesia.

G. E. WHITE, New York City.

2 Young Cocconut fruits.

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.

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 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.

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 1, 1915

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 Committee 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 1, 1915

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 Annual and Sustaining 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 1. 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.

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.

FOR THE CONSTRUCTION OF THE FOUNDATION
FOR THE SOUTHEAST WING AND COURT
BUILDING OF THE AMERICAN MUSEUM
OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1911

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of corporate stock of The City of New York in the sum of two hundred thousand dollars, to provide means for additions to Museum of Natural History, under the jurisdiction of the Department of Parks, Manhattan and Richmond.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment July 17, 1911, and authorizes the Comptroller to issue corporate stock of The City of New York to the amount and for the purposes therein specified:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars (\$200,000), to provide means for the construction of a foundation for the southeast wing and court building of the American Museum of Natural History, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen July 31, 1911, a majority of all the members elected voting in favor thereof.

Received from his Honor, the Mayor, Sept. 19, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

(Signed) P. J. SCULLY, *Clerk*.

APPROPRIATIONS AND EXPENDITURES THEREON TO
DECEMBER 31, 1914

RECEIPTS:

By Direct Appropriation (C.D.P. 3b)..... \$200,000 00

EXPENDITURES:

Phillips & Worthington (boring for foundation)..	\$448 83	
Engineers' Services.....	89 26	
Benedetto & Egan Construction Co. (excavating)	49,796 00	
Architects' Fees (reserved).....	37,857 14	88,191 23
Balance December 31, 1914.....		\$111,808 77

FOR THE EQUIPMENT AND CONSTRUCTION OF PERMANENT IMPROVEMENTS TO THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1913

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars (\$25,000), to provide means for the purchase of cases, etc., for equipment and construction of permanent improvements for the American Museum of Natural History, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond.

Be it Ordained by the Board of Aldermen of The City of New York as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution, adopted by the Board of Estimate and Apportionment October 23, 1913, and authorizes the Comptroller to issue corporate stock of The City of New York to the amount and for the purposes therein specified:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars (\$25,000), to provide means for the purchase of cases, bookstacks, furniture, etc., for equipment, and the construction of permanent improvements for the American Museum of Natural History, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Adopted by the Board of Aldermen December 2, 1913, a majority of all the members elected voting in favor thereof.

Received from his Honor, the Mayor, December 16, 1913, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

(Signed) P. J. SCULLY, *Clerk*.

APPROPRIATIONS THEREON TO DECEMBER 31, 1914

RECEIPTS:

By Direct Appropriation (C.D.P. 3c)..... \$25,000 00

EXPENDITURES:

Mechanics' Pay Roll.....\$12,699 69
Open Market Orders..... 12,025 36

\$24,725 05

OUTSTANDING OBLIGATIONS:

Open Market Orders..... 129 50 129 50

\$24,854 55

Balance December 31, 1914..... \$145 45

LIST OF TRUSTEES AND TERMS OF SERVICE

1869-1914

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-
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
Dodge, A. G. Phelps.....	1869-1872
Dodge, Cleveland H.....	1904-
Dodge, W. E., Jr.....	1872-1903
Douglas, James.....	1909-
Drexel, Joseph W.....	1872-1888
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-
Harriman, Oliver.....	1878-1895
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, Jr.....	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-
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-
Whitney, William C.....	1891-1904
Wolfe, John David.....	1869-1872

LIST OF MEMBERS

December 31, 1914

FOUNDERS

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

WILLIAM T. BLODGETT.*	MORRIS K. JESUP.*
JOSEPH H. CHOATE.	J. PIERPONT MORGAN.*
ROBERT COLGATE.*	HENRY PARISH.
CHARLES A. DANA.*	HOWARD POTTER.*
A. G. PHELPS DODGE.	THEODORE ROOSEVELT.*
BENJAMIN H. FIELD.*	BENJAMIN B. SHERMAN.*
WILLIAM A. HAINES.*	D. JACKSON STEWARD.*
ADRIAN ISELIN.*	ROBERT L. STUART.*
JOHN DAVID WOLFE.*	

BENEFACTORS

*By contribution of \$50,000 or upwards, or through honorary
election*

Mrs. MORRIS K. JESUP.*	J. PIERPONT MORGAN.*
HENRY FAIRFIELD OSBORN.	

ASSOCIATE FOUNDERS

*By contribution of \$25,000 or upwards, or through honorary
election*

CLEVELAND H. DODGE.	CHARLES LANIER.
ARCHER M. HUNTINGTON.	OGDEN MILLS.
ARTHUR CURTISS JAMES.	PERCY R. PYNE.
WILLIAM ROCKEFELLER.	

ASSOCIATE BENEFACTORS

*By contribution of \$10,000 or upwards, or through honorary
election*

GEORGE S. BOWDOIN.*	ANSON W. HARD.
JOSEPH H. CHOATE.	ARCHER M. HUNTINGTON.
CLEVELAND H. DODGE.	ARTHUR CURTISS JAMES.

*Deceased

A. D. JULLIARD.
 CHARLES LANIER.
 JOSEPH F. LOUBAT.
 OGDEN MILLS.
 J. P. MORGAN.
 HENRY FAIRFIELD OSBORN.

PERCY R. PYNE.
 WILLIAM ROCKEFELLER.
 JACOB H. SCHIFF.
 JOHN B. TREVOR.
 Mrs. JOHN B. TREVOR.
 FELIX M. WARBURG.

PATRONS

By contribution of \$1,000 or upwards, or through honorary election

EDWARD D. ADAMS.
 JOHN ANDERSON.*
 JAMES ANGUS.*
 HICKS ARNOLD.*
 RICHARD ARNOLD.*
 WILLIAM H. ASPINWALL.*
 JOHN JACOB ASTOR.*
 WILLIAM WALDORF ASTOR.
 HUGH AUCHINCLOSS.*
 BENJAMIN AYMAR.*
 Mrs. GUY ELLIS BAKER.
 A. H. BARNEY.*
 D. N. BARNEY.*
 JAMES GORDON BENNETT.
 ALBERT S. BICKMORE.*
 Mrs. ALBERT S. BICKMORE.
 FREDERICK BILLINGS.*
 HEBER R. BISHOP.*
 GEORGE BLISS.*
 GEORGE T. BLISS.*
 Miss SUSAN DWIGHT BLISS.
 Mrs. WILLIAM H. BLISS.
 WILLIAM T. BLODGETT.*
 ROBERT BONNER.*
 HENRY BOOTH.
 M. C. D. BORDEN.*
 J. A. BOSTWICK.*
 GEORGE S. BOWDOIN.*
 GEORGE DEXTER BRADFORD.*
 FREDK. F. BREWSTER.
 ALEX. H. BROWN, M.P.
 JAMES BROWN.*
 Miss MATILDA W. BRUCE.*
 HERMON C. BUMPUS.
 JOHN L. CADWALADER.*

Mrs. CARNEGIE.
 ANDREW CARNEGIE.
 Dr. WALTER CHANNING.
 JOSEPH H. CHOATE.
 EDWARD CLARK.*
 JONAS G. CLARK.*
 JAMES B. COLGATE.*
 ROBERT COLGATE.*
 FREDERICK A. CONSTABLE.*
 Mrs. FREDERICK A. CONSTABLE.
 JAMES M. CONSTABLE.*
 GEORGE C. COOPER.*
 PETER COOPER.*
 AUSTIN CORBIN.*
 ALEXANDER I. COTHEAL.*
 JOHN D. CRIMMINS.
 JOHN J. CROOKE.
 ROBERT FULTON CUTTING.
 CORNELIUS C. CUYLER.*
 THOMAS DE WITT CUYLER.
 W. M. DONGAN DE PEYSTER.
 L. P. DI CESNOLA.*
 A. G. PHELPS DODGE.
 CLEVELAND H. DODGE.
 WILLIAM E. DODGE, 1st.*
 WILLIAM E. DODGE, 2d.*
 Mrs. WILLIAM E. DODGE.*
 JAMES DOUGLAS.
 ANDREW E. DOUGLASS.*
 JOSEPH W. DREXEL.*
 Mrs. ISAAC M. DYCKMAN.
 D. G. ELLIOT.
 Mrs. M. SCHUYLER ELLIOT.
 JAMES R. ELY.
 Lieut. G. T. EMMONS, U.S.N.

* Deceased

BENJAMIN H. FIELD.*
 CYRUS W. FIELD.*
 CYRUS W. FIELD, JR.*
 Prof. AUGUSTE FOREL.
 HENRY C. FRICK.
 WILLIAM T. GARNER.*
 ELBRIDGE T. GERRY.
 ROBERT W. GOELET.
 LUDWIG MAX GOLDBERGER.*
 GEORGE J. GOULD.
 JOHN A. C. GRAY.*
 JOHN A. GROSSBECK.*
 WILLIAM A. HAINES.*
 ANSON W. HARD.
 Mrs. E. H. HARRIMAN.
 OLIVER HARRIMAN.*
 HENRY O. HAVEMEYER.*
 THEODORE A. HAVEMEYER.*
 GEORGE G. HAVEN.*
 GEORGE A. HEARN.*
 ABRAM S. HEWITT.*
 Mrs. ABRAM S. HEWITT.*
 VeryRev. E. A. HOFFMAN, D.D., LL.D.*
 Mrs. EUGENE A. HOFFMAN.*
 SAMUEL V. HOFFMAN.
 ARCHER M. HUNTINGTON.
 Mrs. ARCHER M. HUNTINGTON.
 C. P. HUNTINGTON.*
 Mrs. HENRY EDWARDS HUNTINGTON.
 B. H. HUTTON.*
 B. T. BABBITT HYDE.
 Dr. FREDERICK E. HYDE.
 FREDERICK E. HYDE, JR.
 JAMES H. HYDE.
 ADRIAN ISELIN.*
 ADRIAN ISELIN, JR.
 ARTHUR CURTISS JAMES.
 D. WILLIS JAMES.*
 Dr. WALTER B. JAMES.
 CHARLES M. JESUP.
 MORRIS K. JESUP.*
 Mrs. MORRIS K. JESUP.*
 H. J. JEWETT.*
 J. TAYLOR JOHNSTON.*
 Mrs. ISABELLE FIELD JUDSON.
 A. D. JULLIARD.
 JAMES R. KEENE.*

GUSTAV E. KISSEL.*
 CHAS. G. LANDON.*
 CHARLES LANIER.
 Lord LEITH OF FVIVIE.
 JAMES LENOX.*
 ADOLPH LEWISOHN.
 Major C. A. M. LIEBRECHTS.
 JOSEPH F. LOUBAT.
 SETH LOW, LL.D.
 Princess VILMA LWOFF-PARLAGHY.
 JOHN B. MARCOU.*
 PHILIPPE B. MARCOU.
 EDWARD MATTHEWS.
 FRANCIS O. MATTHIESSEN.*
 GEORGE B. MCCLELLAN.
 Dr. EDGAR A. MEARNS, U.S.A.
 HERMAN A. METZ.
 D. O. MILLS.*
 OGDEN MILLS.
 MASON MITCHELL.
 J. PIERPONT MORGAN.*
 J. P. MORGAN.
 HENRY FAIRFIELD OSBORN.
 WM. CHURCH OSBORN.
 Mrs. WM. H. OSBORN.*
 OSWALD OTTENDORFER.*
 JOHN E. PARSONS.
 GEORGE FOSTER PEABODY.
 Dr. WM. PEPPER.*
 I. N. PHELPS.*
 S. WHITNEY PHENIX.*
 HENRY CLAY PIERCE.
 HENRY W. POOR.
 PERCY R. PYNE.*
 PERCY R. PYNE.
 PAUL J. RAINEY.
 CLARK LOMBARD RING.
 J. HAMPDEN ROBB.*
 COLEMAN T. ROBINSON.*
 JOHN D. ROCKEFELLER.
 JOHN D. ROCKEFELLER, JR.
 WM. ROCKEFELLER.
 Col. ARCHIBALD ROGERS.
 THEODORE ROOSEVELT.*
 THEODORE ROOSEVELT.
 Mrs. RUSSELL SAGE.
 WM. SCHAUS.

* Deceased

F. AUGUSTUS SCHERMERHORN.
 WILLIAM C. SCHERMERHORN.*
 JACOB H. SCHIFF.
 MRS. HARRIET L. SCHUYLER.
 HENRY SELIGMAN.
 JESSE SELIGMAN.*
 CHARLES H. SENFF.*
 CHARLES S. SHEPARD.
 EDWARD M. SHEPARD.*
 BENJAMIN B. SHERMAN.*
 WM. D. SLOANE.
 CHARLES E. SLOCUM, M.D., LL.D.
 CHARLES SMETS.
 JAMES BAKER SMITH.*
 CATHERINE L. SPENCER.*
 FREDERICK W. STEVENS.
 D. JACKSON STEWARD.*
 A. T. STEWART.*
 JAMES STOKES.*
 J. G. PHELPS STOKES.
 ALEXANDER STUART.*
 ROBERT L. STUART.*
 MRS. ROBERT L. STUART.*
 APPLETON STURGIS.*
 DR. ELIZABETH M. STURGIS.
 FRANK K. STURGIS.
 MRS. FRANK K. STURGIS.
 JOHN T. TERRY.

Rev. RODERICK TERRY, D.D.
 Mrs. F. F. THOMPSON.
 EDWIN THORNE.
 JOEL WOLFE THORNE.
 JONATHAN THORNE.*
 JONATHAN THORNE.
 Miss PHEBE ANNA THORNE.*
 SAMUEL THORNE.
 VICTOR CORSE THORNE.
 JOHN B. TREVOR.*
 JOHN B. TREVOR.
 Mrs. JOHN B. TREVOR.
 Mrs. JOHN B. TREVOR.
 C. VANDERBILT.*
 GEO. W. VANDERBILT.*
 W. K. VANDERBILT.
 HAROLD GARRISON VILLARD.
 HENRY VILLARD.*
 RODMAN WANAMAKER.
 FELIX M. WARBURG.
 EDWIN H. WEATHERBEE.*
 DR. WILLIAM M. WHEELER.
 WILLIAM C. WHITNEY.*
 GEORGE W. WICKERSHAM.
 RICHARD T. WILSON.*
 Mrs. ROBERT WINTHROP.
 Miss C. L. WOLFE.*
 JOHN D. WOLFE.*

F E L L O W S

By contribution of \$500, or through honorary election

JOHN ALSTYNE.*
 SAMUEL P. AVERY.*
 CHARLES T. BARNEY.*
 THOMAS BARRON.*
 The Duke of BEDFORD.
 CORTLANDT FIELD BISHOP.
 DAVID WOLFE BISHOP.*
 GEORGE BLISS.*
 ROBERT S. BREWSTER.
 STEWART BROWN.*
 WM. LANMAN BULL.*
 JOHN L. CADWALADER *
 JAMES C. CARTER.*
 CHARLES W. CASS.*

GEORGE W. CASS.*
 Prof. CHAS. F. CHANDLER.
 Mrs. GEO. W. COLLORD.*
 HANSON K. CORNING.*
 MRS. RICHARD P. DANA.*
 ALFRED B. DARLING.*
 CHARLES DEERING.
 WM. EARL DODGE, 4th.
 ABRAM DUBOIS.*
 CYRUS W. FIELD, Jr.*
 JOSIAH M. FISKE.*
 H. M. FLAGLER.*
 ROBERT GORDON.
 GEORGE G. GRAY.*

*Deceased

CHARLES W. GRISWOLD.*
 JOHN A. GROSSBECK.*
 JAMES B. HAGGIN.*
 F. R. HALSEY.
 Miss LAURA P. HALSTED.*
 WM. H. HARBECK.*
 MRS. HENRY O. HAVEMEYER.
 SAMUEL HAWK.*
 Very Rev. E. A. HOFFMAN,
 D.D., LL.D.*
 H. B. HOLLINS.
 PAUL GRISWOLD HOWES.
 MEREDITH HOWLAND.*
 SAMUEL N. HOYT.*
 D. B. IVISON.*
 CHARLES M. JESUP.
 AYMAR JOHNSON.
 JAMES H. JONES.
 GOUVERNEUR KEMBLE.*
 ROBERT LENOX KENNEDY.*
 WHEATON B. KUNHARDT.
 Col. ANTHONY R. KUSER.
 Prof. WILLIAM LIBBEY.
 A. A. LOW.*
 HENRY G. MARQUAND.*
 EMERSON McMILLIN.
 Miss CAROLINE L. MORGAN.
 SAMUEL F. B. MORSE.*
 RICHARD MORTIMER.
 LEVI P. MORTON.
 FRANCIS CHILD NICHOLAS, Ph.D.
 LLOYD PHENIX.
 PHILLIPS PHENIX.
 HENRY W. POOR.

HOWARD POTTER.*
 O. B. POTTER.*
 Dr. WILLIAM RADLOFF.
 MARSHALL O. ROBERTS.*
 JOHN D. ROCKEFELLER.
 C. V. S. ROOSEVELT.*
 F. AUGUSTUS SCHERMERHORN.
 H. M. SCHIEFFELIN.*
 GRANT B. SCHLEY.
 Mrs. HARRIET L. SCHUYLER.
 PHILIP SCHUYLER.*
 CHARLES H. SENFF.*
 ELLIOTT F. SHEPARD.*
 JOHN SLOANE.*
 JOHN SNEDEN.*
 D. C. STAPLETON.
 CHARLES D. STICKNEY.
 Miss CAROLINE PHELPS STOKES.*
 Miss OLIVIA E. PHELPS STOKES.
 Mrs. FRANK K. STURGIS.
 RUTHERFURD STUYVESANT.*
 JOHN T. TERRY.*
 Mrs. EZRA RIPLEY THAYER.
 LEWIS S. THOMPSON.
 JAMES THOMSON.*
 TIFFANY & Co.
 LUCIUS TUCKERMAN.*
 H. MCK. TWOMBLY.*
 Gen. EGBERT L. VIELE, U.S.A.*
 THOS. A. VYSE, Jr.*
 FREDERIC C. WALCOTT.
 SAMUEL WILLETS.*
 Mrs. ROBERT WINTHROP.
 R. A. WITTHAUS M.D.

Miss CAROLA WOERISHOFFER.*

HONORARY FELLOWS

*Through election in recognition of distinguished scientific service
to the Museum*

ROALD AMUNDSEN.
 Dr. BASHFORD DEAN.
 Lieut. GEORGE T. EMMONS, U.S.N.
 GEO. BIRD GRINNELL.

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 Dr. LEONARD C. SANFORD.

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Deming, L. C.
Denham, Wm. R.
Dennis, John B.
Denny, Mrs. Lucy W.
DePuy, Mrs. Henry F.
de Rham, H. Casimir
Despard, Walter D.
Deutsch, Alexander
Deyo, Robert E.
Dick, Harris B.
Dick, J. Henry
Dickerman,
Mrs. Wm. C.
Dickey, Charles D.
Dickey, Mrs. Charles D.
Dickinson, Chas.
Dickinson, Dr. G. K.
- Diedel, Henry R.
Diefenthaler, Charles E.
Diestel, Wm.
Dieterich, Chas. F.
Dill, Miss Mary A.
Dillingham, E. R.
Dillon, Mrs. John M.
Dilworth, Jos. R.
Dimmick, J. Benjamin
Dimock, Geo. E.
Dittenhoefer, I. M.
Dix, John A.
Dobbyn, William A.
Dodd, Miss Gertrude
Dodds, Lida L.
Dodge, Mrs. Arthur M.
Dodge, Rev. D. Stuart
Dodge, Francis P.
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Doelger, Peter, Jr.
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Dommerich, L. W.
Dommerich, O. L.
Dorrance, Saml. R.
Dorsett, R. Clarence
Douglas, Walter
Douglass, Wm. Harris
Douglass, Alfred
Douglass, Benjamin, Jr.
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Douglass, Mrs. R. Dun
Dow, Caroline B.
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Dow, R. P.
Dowd, Joseph
Downes, Wm. A., M.D.
Downey, John I.
Dows, David
Dows, Mrs. David
Drake, Miss Mary E.
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Draper, Mrs. William K.
Draper, Mrs. Wm. P.
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Drayton, J. Coleman
Drexel, Mrs. John R.
Dreyfuss, Ludwig

- Drummond, I. Wyman
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 Du Bois, F. N.
 DuBois, Mrs. Goddard
 DuBois, Dr. Matthew B.
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 Dudley, P. H.
 Duer, Mrs. J. B.
 Dugmore, C. P. Radclyffe
 Dulles, William
 Duncan, Frederick S.
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 Duncan, Stuart
 Dunham, Mrs. Carroll
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 Dunham, H. F.
 Dunlap, Mrs. R.
 Dunn, Gano
 Dunn, Henry E.
 Dunning,
 Dr. William B.
 du Pont, Henry F.
 Durkee, Eugene W.
 Du Val, Guy
 Duvall, William C.
 Dwight, A. S.
 Dwight, John E.
 Dwight,
 Jonathan, Jr., M.D.
 Dworetzky, Morris

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 Eaton, Fredk. H.
 Eaton, Geo. Dummer
 Eberhart, Charles
 Eberstadt, Edw. F.
 Eckart, Edmund
 Eder, James M.
 Edgar, Daniel
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 Mrs. Herman LeRoy
 Edgar, Mrs. J. Clifton
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 Edson, Mrs. J. B.
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 Edwards,
 Wm. Seymour
 Egleston, Melville
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 Ehrich, Samuel W.
 Ehrich, Mrs. Wm. J.
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 Eilshemius, Henry G.
 Eimer, A. O.
 Eimer, August
 Einstein, I. D.
 Eiswald, G. H.
 Eldridge, Fredk. L.
 Eldridge, Lewis A.
 Elgar, Benj. F., 2d
 Elkan, Benno
 Ellis, Wm. D.
 Ellsworth, J. M.
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 Emerson, Mrs. Wm.
 Emery, Charles G.
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 Emmet, Robert Temple
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 Crowninshield
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 Erlanger, Milton S.
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 Esberg, Henry
 Ettlinger, Louis

 Evans, Richard
 Evans, William T.
 Everett, Mrs. Leo
 Ewing, Charles

 Fabbri, Ernesto G.
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 Fairchild, S. W.
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 Falk, Kaufman George
 Falk, Oscar
 Falls, K. S.
 Fargo, James C.
 Farish, John B.
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 Farrel, John Truitt
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 Fatman, S. A.
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 Ferguson, Alfred L.
 Ferguson, Mrs. Farquhar
 Ferguson, Harry L.
 Ferguson, Walton
 Ferguson, William C.
 Ferris, Frank A.
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 M. D.

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 Fisher, L. G.
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 Fitch, Ezra H.
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 Fleischmann, Gustav J.
 Fleitmann, H. C.
 Flesh, William J.
 Fletcher, Henry
 Fletcher, Isaac D.
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 Flint, Chas. R.
 Flower, Frederick S.
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 Flurschein, Bernard H.
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- Fowler, Mrs. Anderson
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 Fox, Mortimer J.
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 Frankel, D. J.
 Frankel, Herbert
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 Freeman, Zoheth S.
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 Friedlander, Louis
 Friedlander, Victor
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- Goldsmith, Louis
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 Gould, Edwin, Jr.
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 Halle, J. S.
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 Halsey, R. T. H.
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 Hamburger, L.
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 Louis Gordon
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 Hansen, Ferdinand
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 Harrison, Archibald
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- Haskin, Dr. W. H.
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 Havemeyer, H. O.
 Havemeyer, J. C.
 Havemeyer, Mrs. J. C.
 Havemeyer, John F.
 Havemeyer, T. A.
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 Mrs. McDougall
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 Hazard, Rowland G.
 Hazen, George H.
 Healy, A. Augustus
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 Heinsheimer, Alfred M.
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 Heller, William H.
 Hellman, Henry
 Helme, Mrs. Geo. A.
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 John Lockman
 Helmuth, Wm. Tod
 Hencken, Hancke
 Henderson, John B., Jr.
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 Hendricks, Harmon W.
 Henriques, Clarence A.
- Henry, James
 Henry, Philip W.
 Hepburn, A. B.
 Herbert, William
 Herman, Max
 Hershheim, Joseph
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 Heroy, W. W.
 Herreshoff, J. B. Francis
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 Mrs. J. B. Francis
 Herrick, Harold
 Herrick, Mrs. W. W.
 Herrmann, Charles E.
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 Mrs. Christian A.
 Herzig, Geo. B.
 Hess, Dr. Alfred F.
 Hess, Selmar
 Hess, Simon
 Hewlett, Walter Jones
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 Heymann, Seymour E.
 Hicks, John M. W.
 Hicks,
 Miss Minnie Helen
 Higbie, James S.
 Higgins, Francis
 Highet, Frank B.
 Hilder, Moritz
 Hillard, Henry R.
 Hills, Dr. Alfred K.
 Hilyard, George D.
 Hinchman, Walter
 Hine, Francis L.
 Hine, Lyman N.
 Hine, Thomas A.
 Hines, Walker D.
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 Hirsch, Blanche
 Hirsch, Chas. S.
 Hirsch, Mrs. H.
 Hirsch, Morris J.
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 Hirschhorn,
 Mrs. Charles
- Hirschhorn, Fred
 Hirschland, F. H.
 Hitzrot, Jas. Morley
 Hoagland,
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 Hodgson, Caspar W.
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 Mrs. Halstead Pell
 Hoe, Alfred G.
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 Hoe, Richard M.
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 Hoe, William J.
 Hoffman, Charles W.
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 Hoffman, Joseph E.
 Hoffman, Wm. Wickham
 Hoggson, W. J.
 Hoisington,
 Frederick R.
 Holbrook, Mrs. Edward
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 Holden, Geo. A.
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 Hollenback,
 Miss Amelia B.
 Hollister, Dr. F. K.
 Hollister, Granger A.
 Holt, Henry
 Holt, R. S.
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 Homan, B. H.
 Homans, Howard P.
 Homer, C. S.
 Honig, Joseph
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 Miss Augusta D.
 Hopkins, Russell
 Hoppin, G. Beekman
 Hoppin, Mrs. W. W., Jr.
 Horr, L. Wm.
 Hotchkiss, Henry D.

- Houghton, Clement S.
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 Housman, Clarence J.
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 Howard-Martin, E.
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 Howell, M. D.
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 Howell, Wilson S.
 Hoyt, Elizabeth S.
 Hoyt, Francis S.
 Hoyt, Gerald L.
 Hoyt, Miss Gertrude L.
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 Ernest V., M.D.
 Huber, Mrs. J. M.
 Hudson, Percy K.
 Hughes, Frank
 Huidekoper, A. C.
 Huidekoper, Edgar
 Humphreys, Frederic E.
 Humphreys, Frederic H.
 Humphreys, Geo. H.
 Hunt, Mrs. Leigh
 Hunt, Lucy
 Huntington, Ford
 Huntington,
 Mrs. Robt. P.
 Huntington, Mrs. R. P.
 Hüpfel, Adolph G.
 Hüpfel, J. Chr. G.
 Hurd, Dr. Lee M.
 Hussey, William H.
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 Miss M. Katharine
 Husted, Seymour L., Jr.
 Hutchinson, Cary T.
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 Huyler, David
 Huyler, Frank DeK.
 Hyatt, A. M.
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 Hyde, Mrs. Augustus L.
 Hyde, Mrs. Clarence M.
 Hyde, E. Francis
 Hyde, W. Truslow
 Ingraham, Arthur
 Ingraham, Geo. L.
 Inman, John H.
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 Iselin, Miss Georgine
 Iselin, John H.
 Iselin, Lewis
 Iselin, Mrs. William E.
 Iselin, Wm. E.
 Jackson, Geo. T., M.D.
 Jackson, Jas. W.
 Jackson, Martin F.
 Jackson, Mrs. Percy
 Jacob, Moe
 Jacobus, John S.
 Jaffray, Robert
 James, Norman
 James, Robert C.
 James, Mrs. Walter B.
 Jansen, Ed.
 Jaretzki, Mrs. Alfred
 Jarvie, James N.
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 Jenkins, Alfred W.
 Jennings, Miss A. B.
 Jennings,
 Mrs. Frederic B.
 Jennings, Robt. E.
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 Mrs. Sidney J.
 Jennings, Walter
 Jewett, Geo. L.
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 Douglas Wilson
 Johnson, Guy B.
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 Miss Helen Louise
 Johnson, James G.
 Johnson, J. Hemsley
 Johnson, Rankin
 Johnson, Robert U.
 Johnston, J. Herbert
 Johnston,
 Mrs. J. Herbert
 Johnston, Walter S.
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 Mrs. Adam Leroy
 Jones, A. H.
 Jones, Mrs. Cadwalader
 Jones, Charles H.
 Jones, H. Bolton
 Jones, Townsend
 Jordan, Mrs. Adeline S.
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 Judge, Hubert A.
 Judson, Mrs. Albert L.
 Judson, Henry I.
 Jungbluth, Karl
 Kahn, Otto H.
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 Dr. Robert Johnstone
 Kahrs, J. Henry
 Kane, De Lancey
 Kassing, Edwin S.
 Kathan, Reid A.
 Kaufman, Mrs. S. R.
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 Kaufmann, B.
 Kaufmann, Julius
 Kaufmann, Otto
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 Kautz-Eulenburg,
 Miss P. R.
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 Mrs. Hamilton Fish
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 Keith, Mrs. Minor C.
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 Kellers, Fred. T.
 Kellogg, Mrs. Chas.
 Kellogg, L. D.
 Kellogg, Mrs. Morris W.
 Kemmerer, M. S.
 Kemp, Edward

- Kemp, Mrs. Edward
 Kemp, Prof. James F.
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 Kennan, George
 Kennedy, Dr. Harris
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 Kenyon, Wm. Houston
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 Kerr, John Clapperton
 Kerr, Walter
 Kerrison, Dr. Philip D.
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 Mrs. Thomas
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 Kissel, W. Thorn
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 Klein, Leo M.
- Kleinberger, George F.
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 Knapp, John B., M. D.
 Knapp, Joseph P.
 Knauth, Antonio
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 Knopf, Samuel
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 Koenig, Otto
 Kohlman, Chas.
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 Kohn, S. H.
 Kohn, Mrs. Theo. A.
 Kohns, Lee
 Kohnstamm, Emil V.
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 Krower, Louis
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 Kursheedt, Roland S.
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 Kuser, John Dryden
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- Lacombe, E. Henry
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 Lambert, Dr. Alexander
- Lambert, Samuel W.
 Lamont, T. W.
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 Landon, Henry Hutton
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 Lane, Wolcott G.
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 Lanier, Reginald B.
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 Miss Margaret
 Lawrence, Townsend
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 Lawrence, W. V.
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 Lee, J. Bowers
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 Lefferts, Wm. H.
 Legg, George

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 Leupp, Wm. H.
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 Levi, Emil S.
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 Levison, Benno, Jr.
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 Levy, Ephraim B.
 Levy, Louis S.
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 Lewisohn, Miss Irene
 Lewisohn, Julius A.
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 Lichtenstein, Paul
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 Howard, M.D.
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 Livingston,
 Gilbert Robert, Jr.
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 Livingston, Wm. S.
 Lloyd, Francis G.
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 Loeb, J.
 Loeb, Mrs. Morris
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 Loring, D. A.
 Loring,
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 Miss Carlotta Russell
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 Ludlow, Nicoll
 Ludlow, R. Fulton
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- Robert, Samuel
 Roberts, George I.
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 Roe, Gen. Chas. F.
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 Rev. Francis, Ph.D.
- Roome, Wm. P.
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 Rosenbaum, Sol. G.

- Rosenstamm, S. S.
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 Sachs, Harry
 Sachs, Julius
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 Sackett, Miss G. T.
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 Saklatvala, P. D.
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 Salomon,
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 Salt, Albert Lincoln
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 Sands, Mrs. B. Aymar
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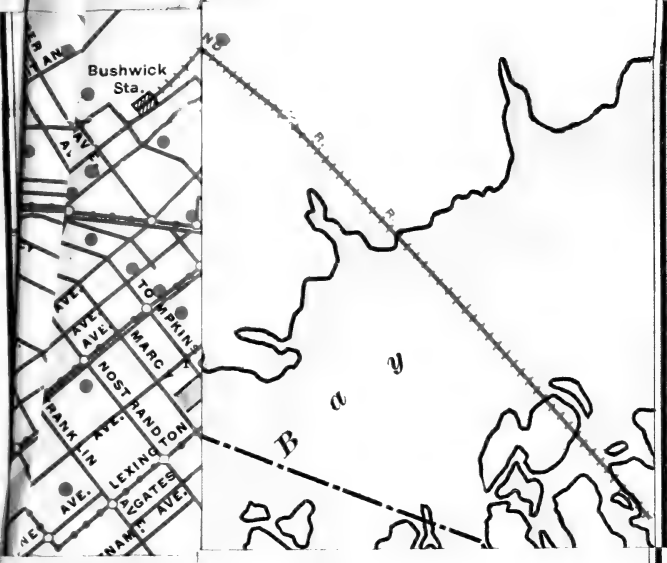
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 Totten, John R.
 Townsend, David C.
 Townsend, Howard
 Trainor, P. S.

- Trenor, John J. D.
 Trevor, H. G.
 Troescher, A. F.
 Trowbridge, E. Kellogg
 Trowbridge,
 Frederick K.
 Trowbridge, S. Breck P.
 Truslow, Mrs. C. W.
 Tuckerman, Alfred
 Tuckerman, Mrs. Alfred
 Tuckerman, Miss Emily
 Tuckerman, Paul
 Turcas, Jules
 Turnbull, Arthur
 Turnbull, Mrs. Ramsay
 Turner, Mrs. J. Spencer
 Turnure, George E.
 Tuska, Benjamin
 Tuttle, Donald Seymour
 Tuttle, Mrs. George M.
 Tweed, Charles H.
 Tweedie, Miss Annie
- Ullman, Sigmund
 Ullmann, E. S.
 Ulmann, B.
 Ulmann, C. J.
 Ulmann, James
 Ulmann, Ludwig
 Underwood,
 William Lyman
 Unger, M. S. H.
 Untermyer, Alvin
 Untermyer, Isaac
- Vail, Theo. N.
 Vaillant, Mrs. G. H
 Valentine, J. Manson
 Valentine,
 Wm. A., M.D.
 van Beuren, Mrs. M. M.
 Van Brunt, Jeremiah R.
 Vanderbilt, Reginald C.
 Vanderbilt, Mrs. W. K.
 Vanderlip, Frank A.
 Vanderpoel, Mrs. J. A.
 Van Dyke, R. B.
- van Dyke, Tertius
 Van Emburgh, D. B.
 Van Horne, John G.
 Van Ingen, Edward H.
 Van Norden,
 Ottomar H.
 Van Norden, Warner M.
 van Raalte, Mrs. E.
 Van Raalte, Mrs. Z.
 Van Sinderen, Howard
 Van Vorst, Frederick B.
 Van Wageningen, H. W.
 Van Winkle, Edgar B.
 Veit, Richard C.
 Veltin, Miss Louise
 Vermeule, John D.
 Vesper, Karl H.
 Vettel, Mrs. Rosa
 Vetter, A. G.
 Vietor, Carl
 Vietor, Mrs. Geo. F.
 Vietor, Thos. F.
 Villard, Mrs. Henry
 Vincent, Frank
 Vineberg,
 Dr. Hiram N.
 Voelker, John P.
 Vogel, Herman
 Vogel, H. G.
 Vogelstein, L.
 von Gontard, Alex.
 von Palmenberg,
 Mrs. Raymond
 von Zedlitz,
 Mrs. Anna M.
 Voss, F. G.
 Vredenburgh,
 Mrs. J. Trowbridge
 Vreeland, Frederick K.
- Wagner, Frederic C.
 Wagner, T. B.
 Wakeman, Stephen H.
 Walbridge, H. D.
 Walcott, Mrs. F. C.
 Waldo, Miss Julia L.
 Wales, Edward H.
- Walker, Amasa
 Walker, E. Robbins
 Walker, Horatio
 Walker, John B., M.D.
 Walker, Mrs. Joseph, Jr.
 Walker, W. G.
 Walker, William I.
 Wallenstein, Milton H.
 Wallerstein, Leo
 Walter, Edw. J.
 Walter, W. I.
 Walther, Elmore Curt
 Ward, Artemas
 Ward, Mrs. Artemas
 Ward, Mrs. Frances M.
 Ward, John Gilbert
 Ward, Owen
 Ward, T. Edwin
 Wardwell, Allen
 Warner,
 Mrs. Henry Wolcott
 Warner, Lucien C.
 Warner, R. L.
 Warren,
 Mrs. John Hobart
 Washburn, Thomas G.
 Wassermann, E.
 Waterbury,
 Miss Florence
 Waterbury, Mrs. John I.
 Waters, Horace
 Watson, A. W.
 Watson, Miss Emily A.
 Watson, Mrs. J. E.
 Watson, John J., Jr.
 Weatherbee, Mrs. E. H.
 Webb, H. Walter
 Weber, Ferdinand
 Weed, Geo. E.
 Weeks, Dr. John E.
 Wehrhane, Chas.
 Weigle, Chas. H.
 Weil, Arthur William
 Weil, Dr. Isaac
 Weil, Miss Josephine M.
 Weil, L. J.
 Weil, R.

- Weiller, Louis M.
 Weiller, Simon
 Weinberg, Charles
 Weir, Chas. Gouverneur
 Weir,
 Mrs. Chas. Gouverneur
 Weitling, Wm. W.
 Welinsky, Max
 Wells, Mrs. John
 Wells, Judd Elwin
 Wells, Mrs. Lemuel H.
 Wells, Oliver J.
 Welsh, S. Chas.
 Welwood,
 John Caldwell
 Wentz, James G.
 Wentz, Theodore
 Werner, Charles H.
 Wertheim, Jacob
 Wertheim, Maurice
 Wessell, Arthur L.
 Westcott,
 Mrs. Robert E.
 Weston, Dr. Edward
 Westover, Myron F.
 Wetherbee, Gardner
 Wheeler, Dr. Herbert L.
 Wheeler,
 John Davenport
 Wheeler, Miss L.
 Wheelock, Geo. L.
 Wheelock, Mrs. G. G.
 Whitaker, John E.
 White, Alexander M.
 White, A. Ludlow
 White, Miss Caroline
 White, Horace
 White, John Jay, Jr.
 White, Mrs. Stanford
 White, W. A.
 Whitehouse, J. Henry
 Whiting, Mrs. James R.
 Whitman, Clarence
 Whitman, Wm., Jr.
 Whitney, Caspar
 Whitney, Edward F.
 Whitney, H. P.
 Whitney, Mrs. Payne
 Wickes, Edward A.
 Widener, P. A. B.
 Wight, Mrs. H. B.
 Wilbour, Miss Theodora
 Wilcox,
 Mrs. Clermont H.
 Wilcox, T. Ferdinand
 Wilkens, H. A. J.
 Wilkie, John L.
 Wilkinson, Alfred
 Willcox, William G.
 Willets, Miss Maria
 Willett, George F.
 Williams, Alex. S.
 Williams, Arthur
 Williams, Blair S.
 Williams, Joseph
 Williams, Mrs. Percy H.
 Williams, Richard H.
 Williams,
 Mrs. Richard H.
 Williams, T. W.
 Willis, W. P.
 Wills, Charles T.
 Wills, Wm.
 Willstatter, A.
 Wilmerding, Lucius
 Wilson, Edmund B.
 Wilson, Francis A.
 Wilson, George T.
 Wilson, Mrs. Henry B.
 Wilson, John E., M.D.
 Wilson,
 Miss Margaret B.
 Wilson, M. Orme
 Wilson, Orme, Jr.
 Wilson, R. Thornton
 Wimpfheimer, Chas. A.
 Wingate, Geo. W.
 Winsten, Mrs. Albert
 Winthrop, Bronson
 Wise, Edmond E.
 Wisner, Miss Josephine
 Wisner, Percy
 Witherbee, Frank S.
 Wittmann, Joseph
 Woerishoffer,
 Mrs. Anna
 Woerz, Ernest G. W.
 Woerz, F. W.
 Wolfe,
 Mrs. Anzonetta B.
 Wolfe, S. Herbert
 Wolff, Mrs. Lewis S.
 Wolff, Wm. E.
 Wolfson, T.
 Wood, Mrs. Cynthia A.
 Wood, Mrs. John D.
 Wood, Willis D.
 Wood, Wm. C.
 Woodin, Mrs. C. R.
 Woodward, Robt. B.
 Woolley, James V. S.
 Woolsey, John M.
 Worcester, Wilfred J.
 Worrall, P. B.
 Wray, A. H.
 Wray, Miss Julia
 Wright, Mrs. J. Hood
 Wurzburger, A.
 Yeisley,
 Rev. Dr. George C.
 Young, Mrs. A. Murray
 Young, Edward L.
 Young, Mrs. John Alvin
 Zabriskie, Andrew C.
 Zabriskie, George
 Zaman, Mrs. Josephine
 Zimmermann, John
 Zinsser, Aug.
 Zinsser, August, Jr.
 Zinsser, Wm. H.
 Zoller, Charles



NEW YORK SUBWAY LINES

Transit (Subway System)

Circulating R. R. Tunnels

- Number
- Number
- Number

Lectures to I

- Number
- Numbers
- Total A



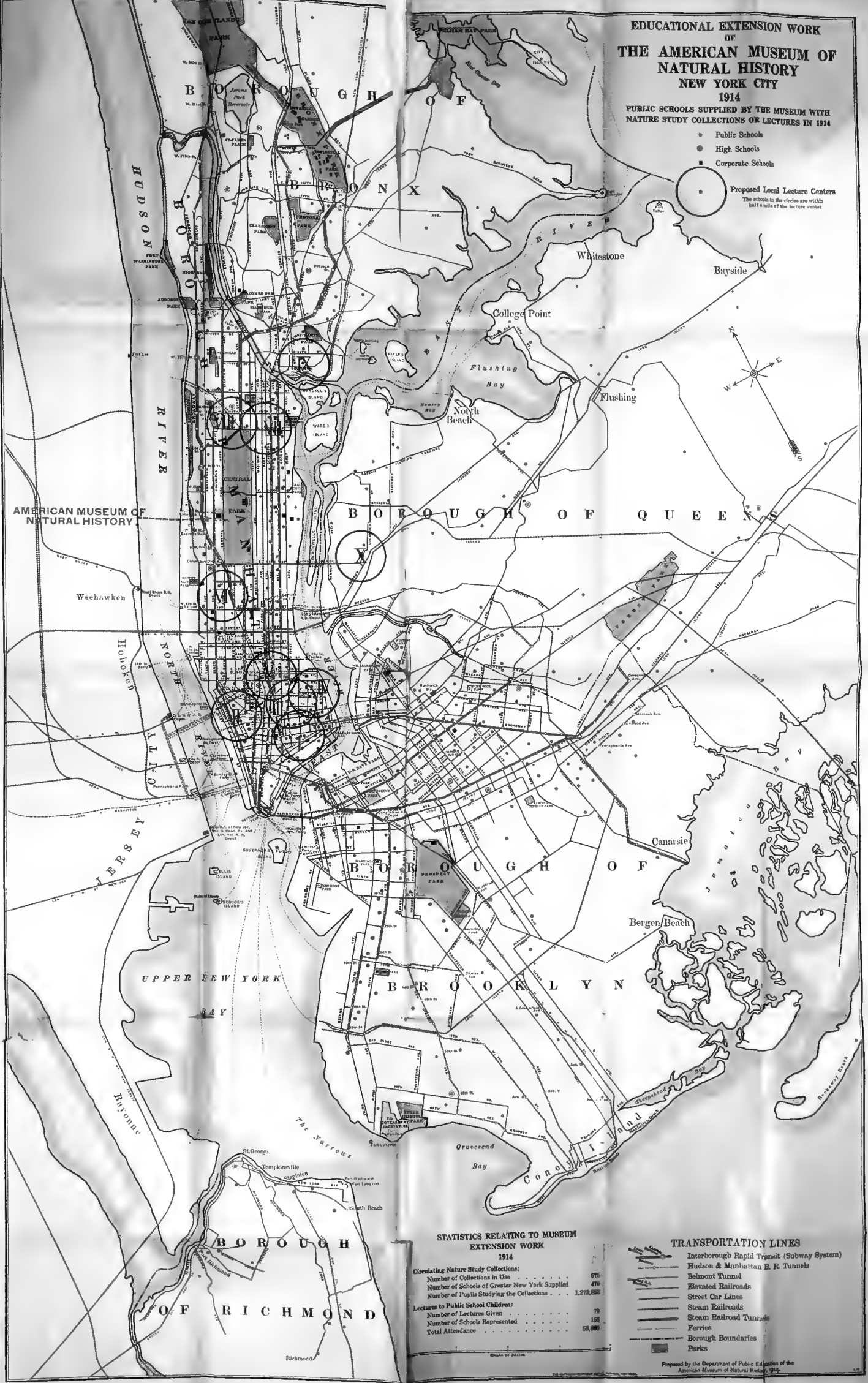
Location of the
y, 1914

**EDUCATIONAL EXTENSION WORK
OF
THE AMERICAN MUSEUM OF
NATURAL HISTORY
NEW YORK CITY
1914**

**PUBLIC SCHOOLS SUPPLIED BY THE MUSEUM WITH
NATURE STUDY COLLECTIONS OR LECTURES IN 1914**

- Public Schools
- High Schools
- Corporate Schools

○ Proposed Local Lecture Centers
The schools in the circles are within
half a mile of the lecture center

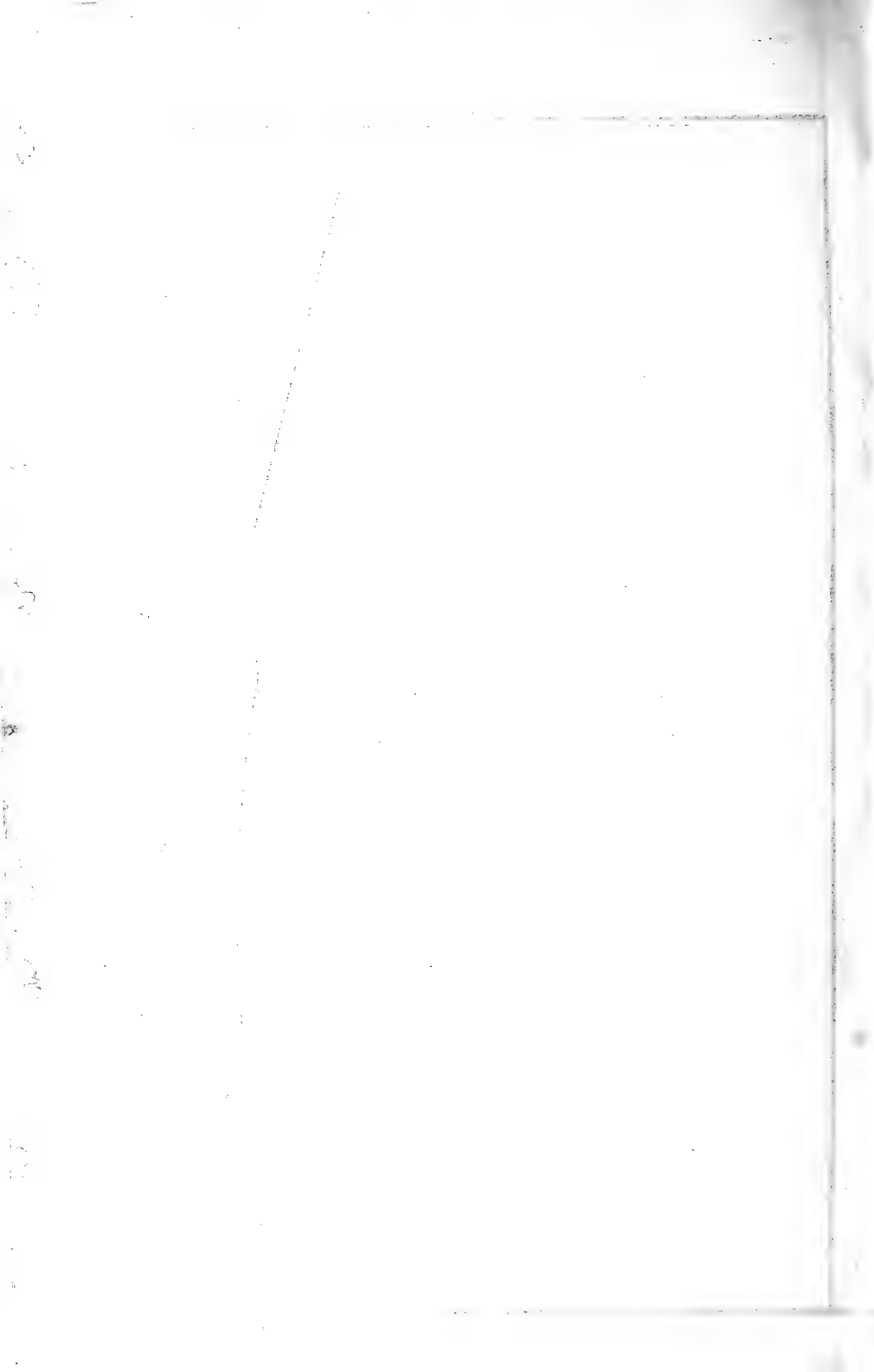


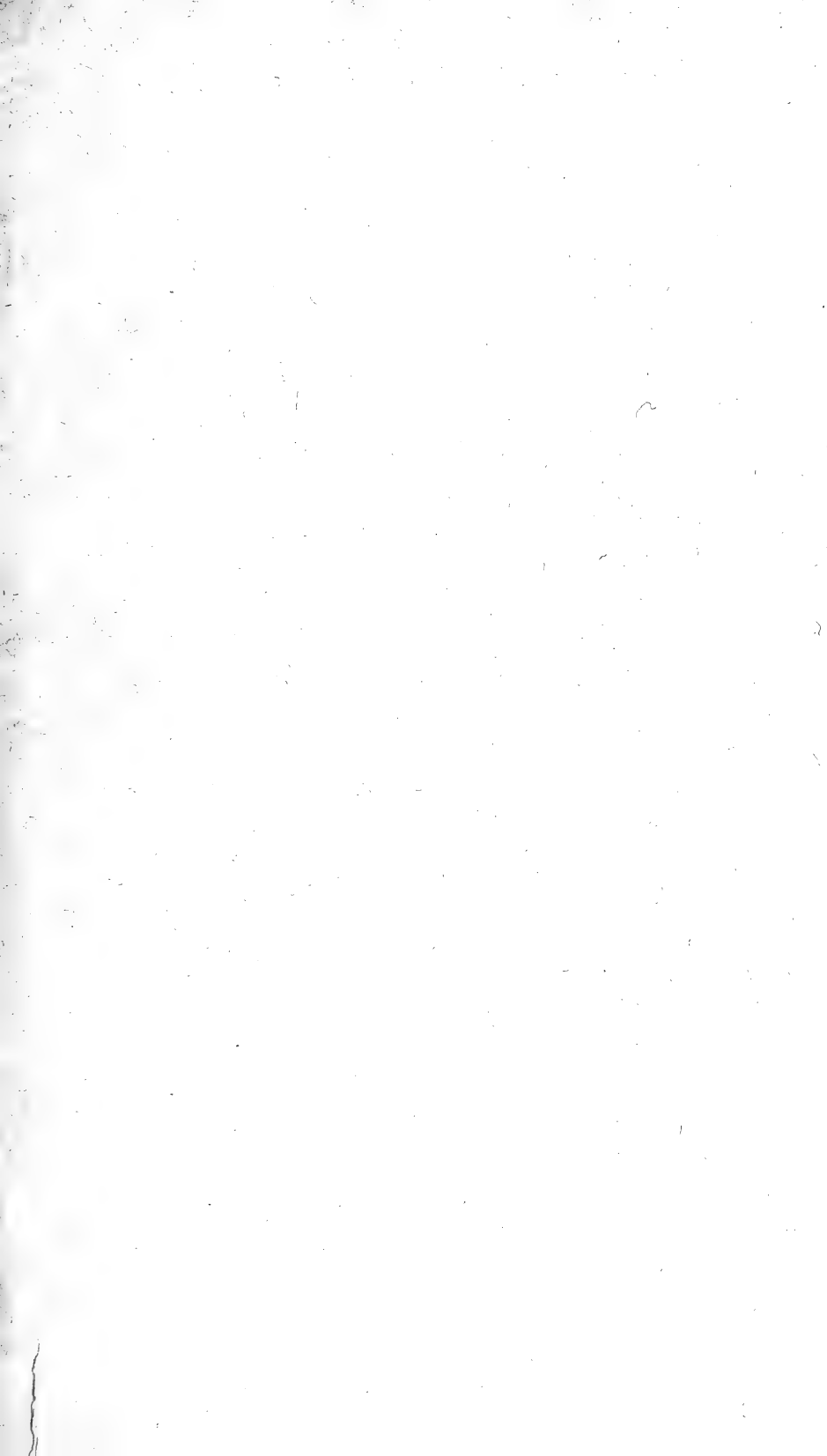
**STATISTICS RELATING TO MUSEUM
EXTENSION WORK
1914**

Circulating Nature Study Collections:	
Number of Collections in Use	675
Number of Schools of Greater New York Supplied	470
Number of Pupils Studying the Collections	1,279,553
Lectures to Public School Children:	
Number of Lectures Given	79
Number of Schools Represented	133
Total Attendance	53,986

TRANSPORTATION LINES

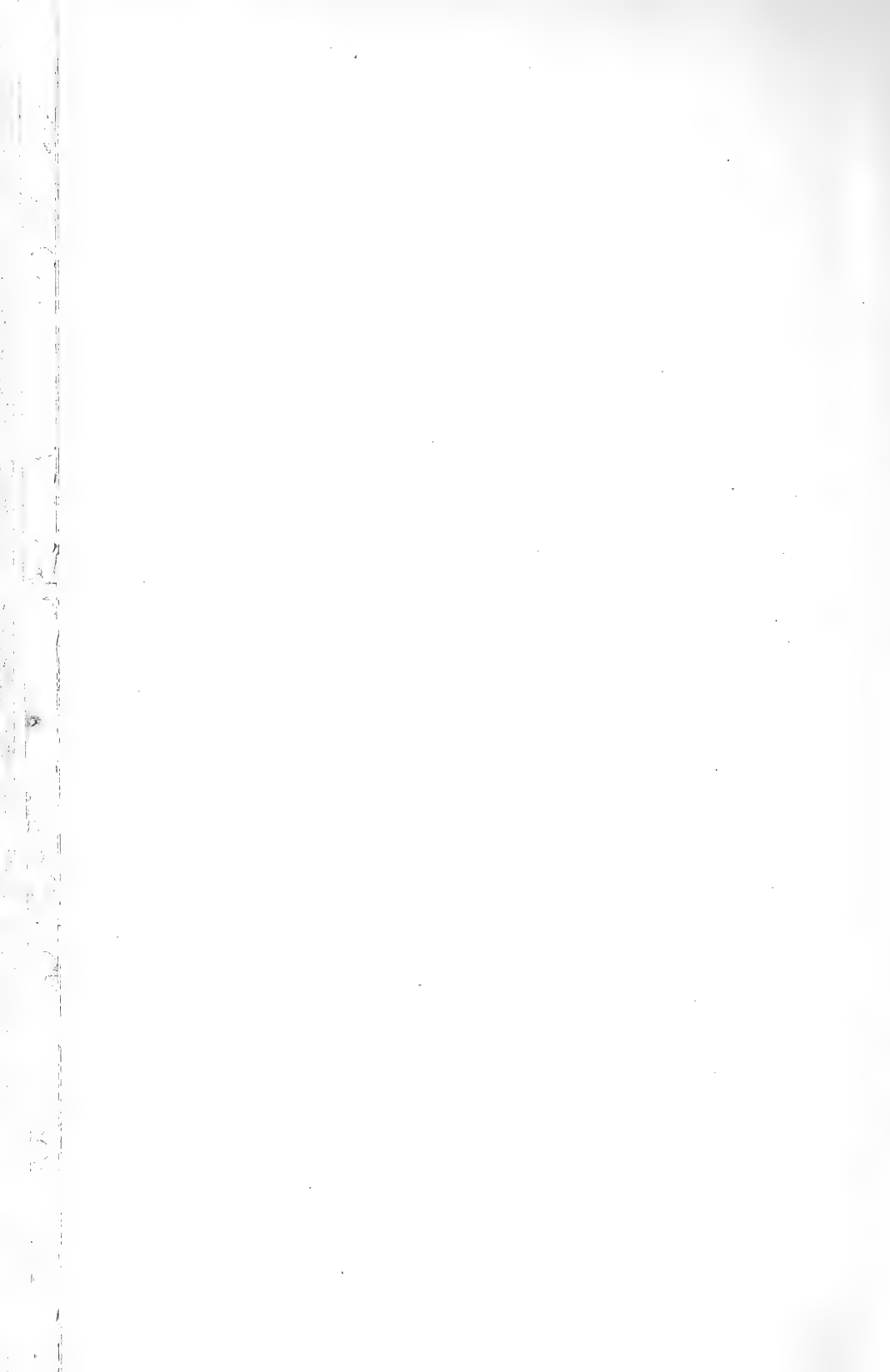
- Interborough Rapid Transit (Subway System)
- Hudson & Manhattan E. R. Tunnels
- Belmont Tunnel
- Elevated Railroads
- Street Car Lines
- Steam Railroads
- Steam Railroad Tunnels
- Ferries
- Borough Boundaries
- Parks



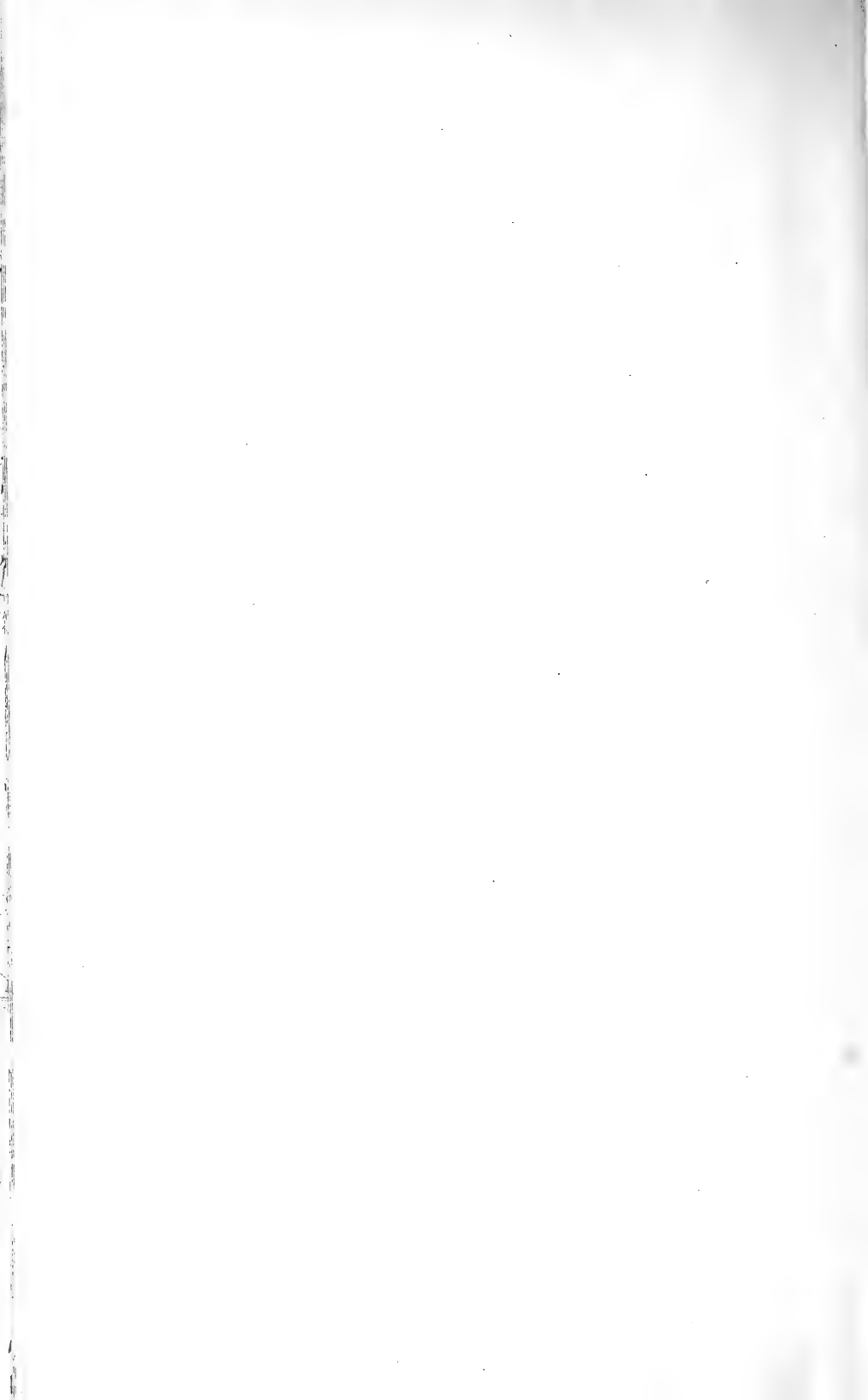


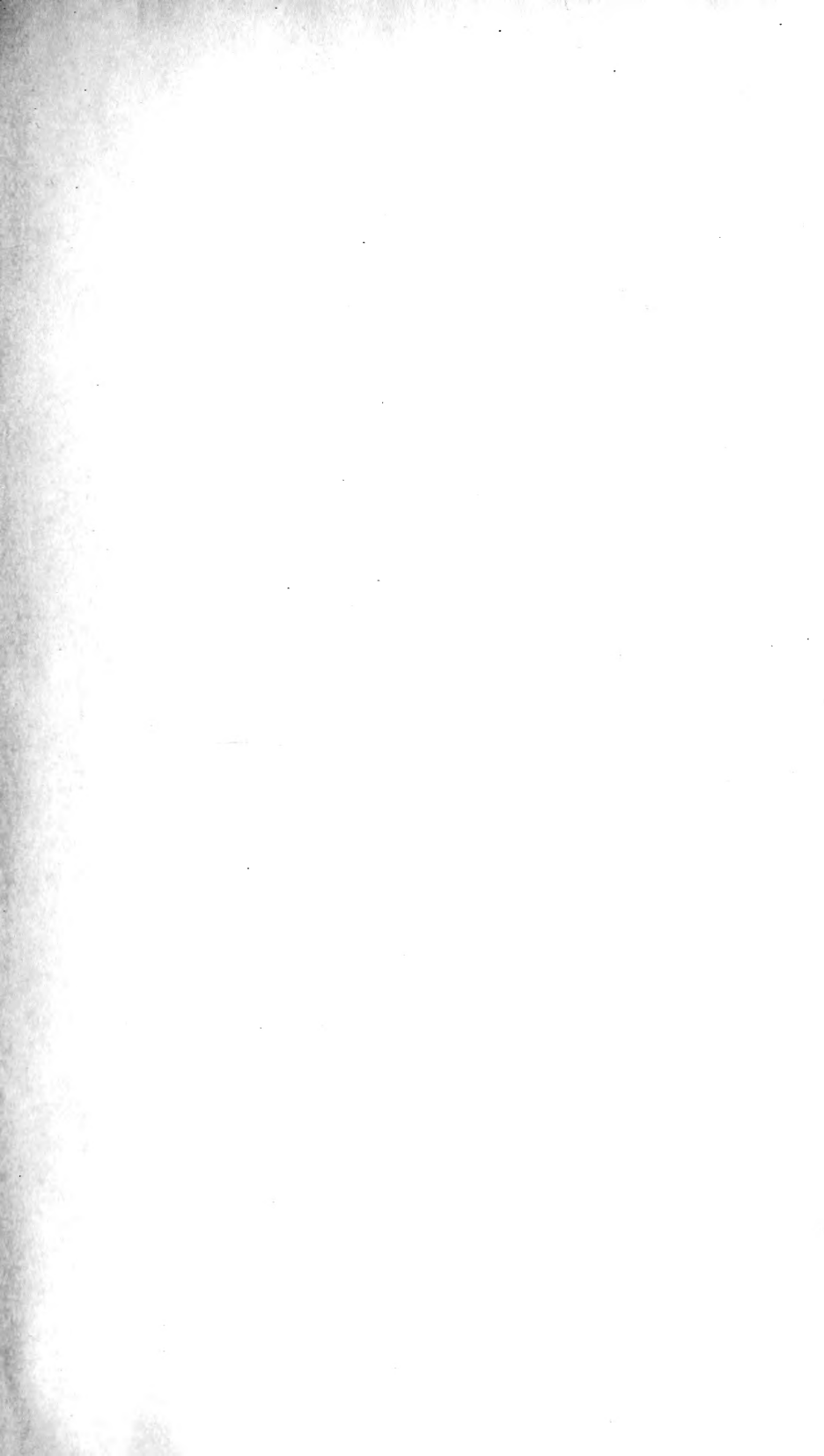
From the Charter of 1869

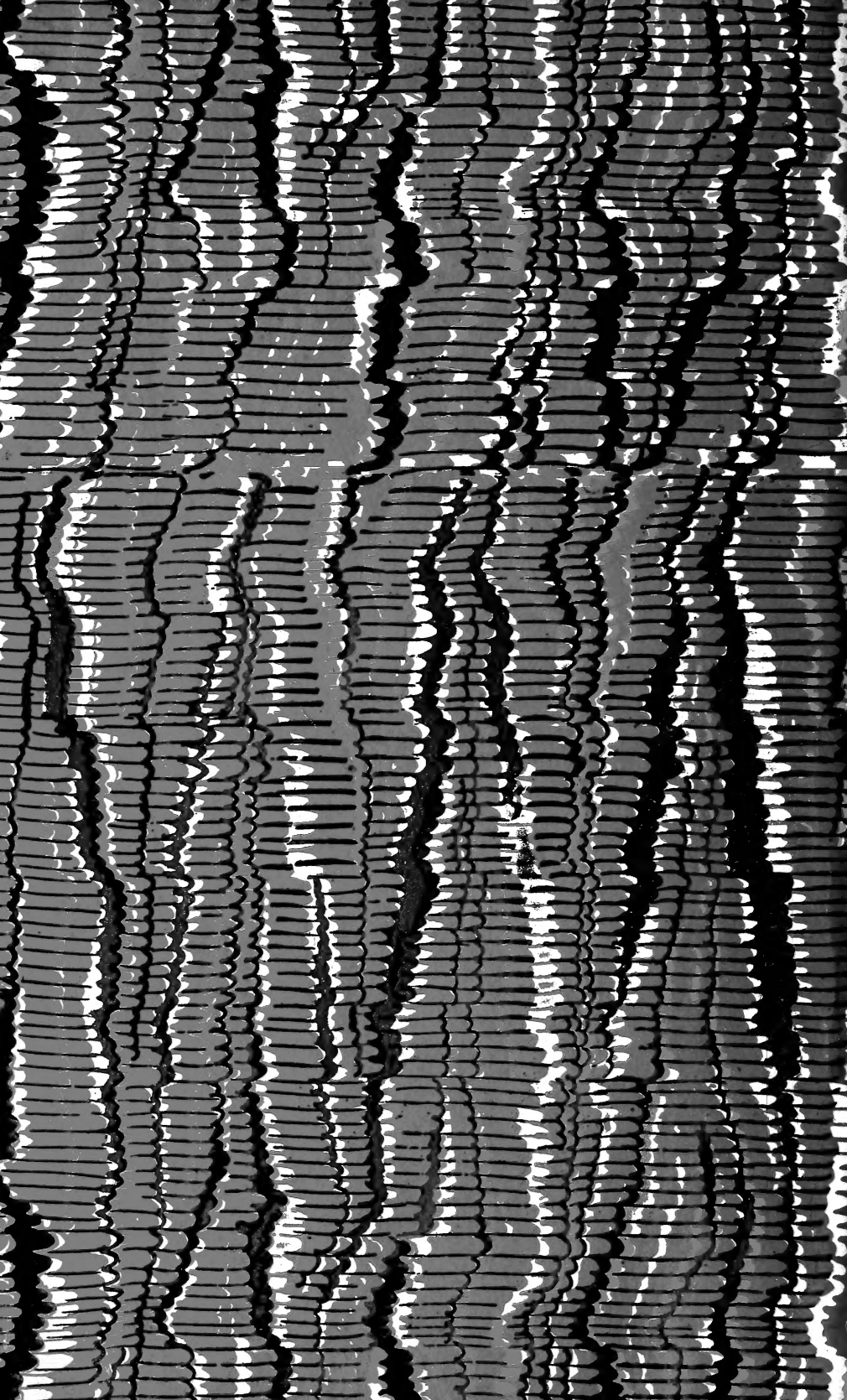
“For the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction.”

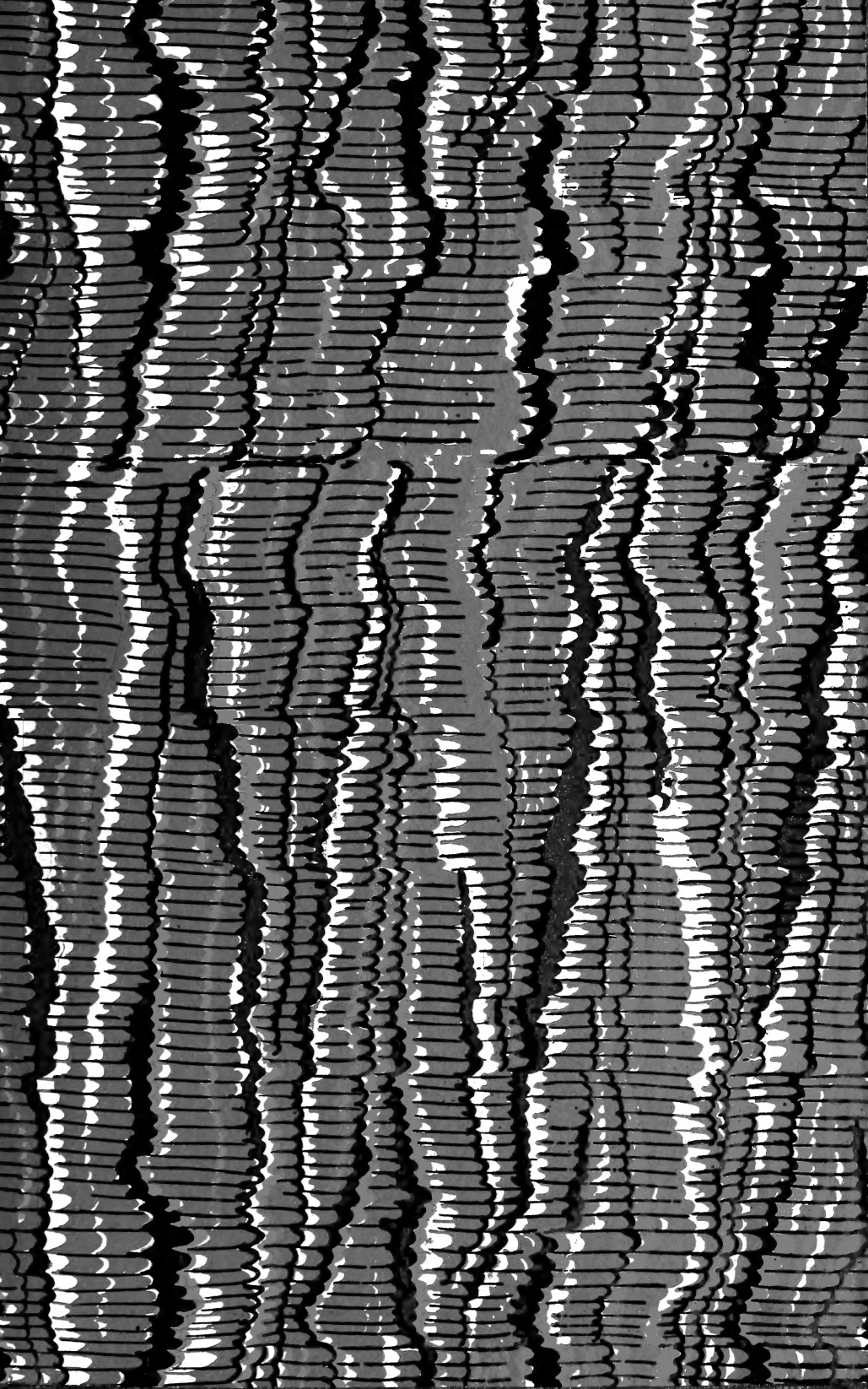












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