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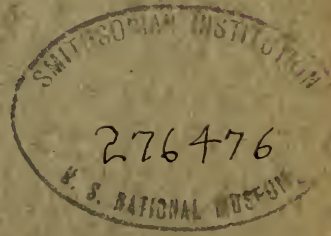
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FORTY-FIFTH ANNUAL REPORT
OF THE
TRUSTEES
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1913



A FREE INSTITUTION
FOR THE PEOPLE
FOR EDUCATION
FOR SCIENCE



NEW YORK
ISSUED FEBRUARY 2, 1914

Red

THE AMERICAN MUSEUM OF
NATURAL HISTORY

INCORPORATED IN 1869

MEMBERSHIP AND ENDOWMENT

There are nearly thirty-six 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
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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.

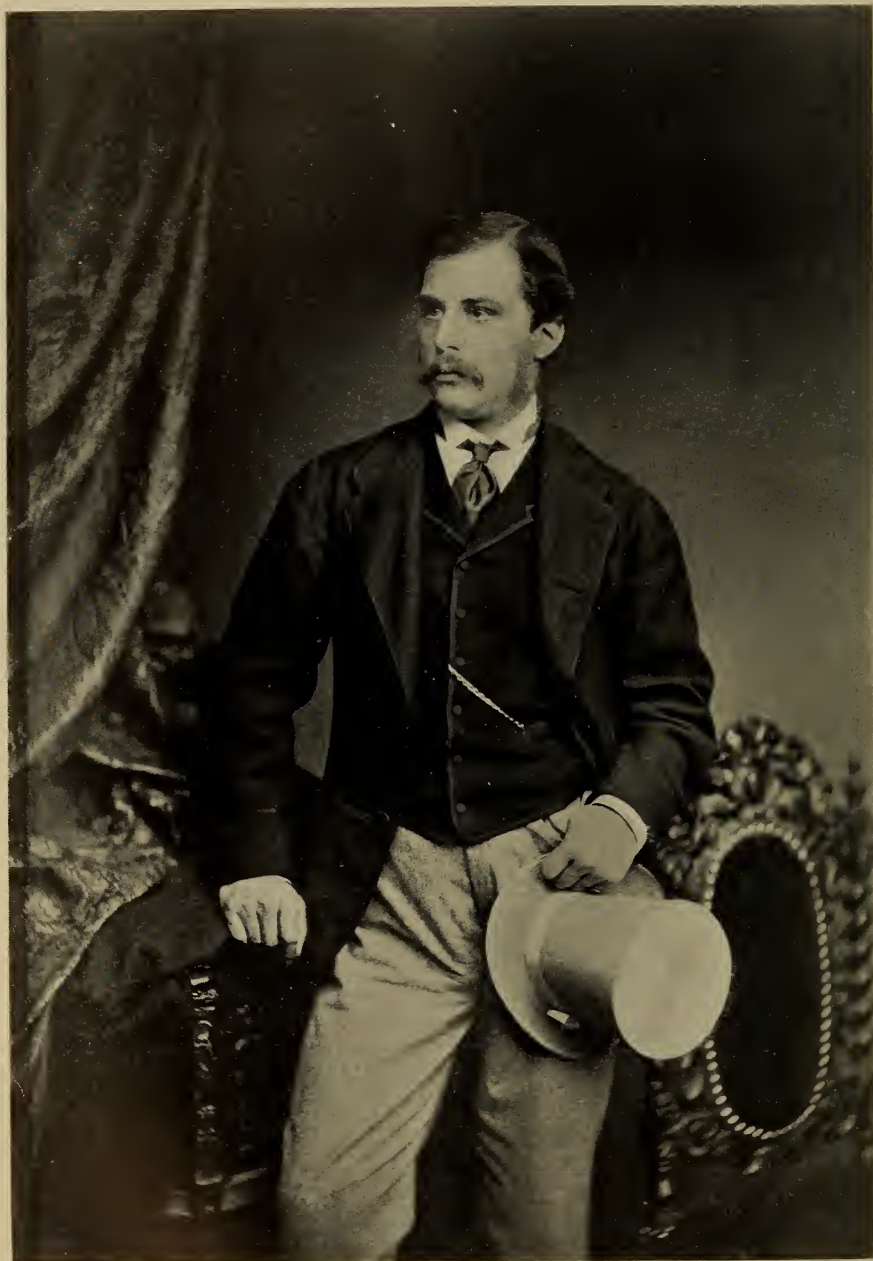
FORM OF GIFT OR BEQUEST

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



PORTRAIT OF J. PIERPONT MORGAN

Taken in Paris in 1868, the year of the organization of the American Museum

FORTY-FIFTH ANNUAL REPORT
OF
THE AMERICAN MUSEUM
OF NATURAL HISTORY
FOR THE YEAR 1913

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 2, 1914

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First Vice-President

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Second Vice-President

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Secretary

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EX-OFFICIO

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THE COMPTROLLER OF THE CITY OF NEW YORK
THE PRESIDENT OF THE DEPARTMENT OF PARKS

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WALTER B. JAMES MADISON GRANT
CABOT WARD, *Commissioner of Parks*

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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

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Chief of Construction

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Chief Engineer

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SCIENTIFIC STAFF

FOR 1914

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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 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
JOHN A. GROSSBECK, Assistant
A. J. MUTCHLER, 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

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

SCIENTIFIC STAFF FOR 1914—*Continued*

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

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DEPARTMENT OF PUBLIC HEALTH

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

DEPARTMENT OF WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, B.S., Curator

DEPARTMENT OF BOOKS AND PUBLICATIONS

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

DEPARTMENT OF PUBLIC EDUCATION

ALBERT S. BICKMÖRE, Ph.D., LL.D., Curator Emeritus
GEORGE H. SHERWOOD, A.M., Curator
G. CLYDE FISHER, Ph.D., Assistant Curator
AGNES LAIDLAW VAUGHAN, Assistant

FORTY-FIFTH 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 seventh annual report setting forth the progress of the Museum during the year 1913, and including the special reports of the Director and of the Officers of the various departments of the Museum and of the Board.

During the year the Museum has lost one of its founders and staunchest friends in the death of J. Pierpont Morgan, which occurred on the thirty-first day of March. For forty-four years Mr. Morgan served on the Board of Trustees, and, second only to Mr. Jesup, was the most munificent contributor to the development of the institution, not centering his interest in any one department, but extending it to the Museum as a whole. The Trustees endeavored to express their indebtedness and high regard in the following resolution, adopted at a Special Meeting of the Board on April 4, 1913:

The people of New York and of this country are
forever indebted to

JOHN PIERPONT MORGAN

for his large share in the foundation and upbuilding of
THE AMERICAN MUSEUM OF NATURAL HISTORY
as a national institution of education and public welfare.

From December 30, 1868, when the first steps were taken to found the Museum, until 1912, when he last visited his collections of Minerals and Gems in the Museum, he gave munificently of his time, his judgment, his affection, his means. In this, as in so many other public causes, he will be remembered as a true patriot and loyal citizen of the republic.

He served as Charter Member of the Museum Corporation, as Treasurer, as Chairman of the Finance Committee, as First Vice-President. His gifts to the exhibition halls and to the Endowment have enriched every branch of the Museum, and are of such a rare and beautiful character as to give an inspiration and love of nature for all time.

A memorial tablet will be placed near the collections of Minerals and Gems, with which Mr. Morgan's name was most closely associated.

The Museum has also suffered another loss in the death of George Sullivan Bowdoin, a partner of Mr. Morgan, who died December 16, 1913. Mr. Bowdoin joined the Board in 1903. He was of a retiring nature, but took an active interest in the progress of the Museum. His quiet dignified manner, his broad sympathies and his friendliness and consideration for others endeared him to all with whom he came in contact. His benefactions were many and generous and his genial presence will be greatly missed.

GENERAL PROGRESS

The Members of the Museum have continued their loyal support, and five hundred and eleven new names have been enrolled, thus swelling our membership to about thirty-six hundred. All together, through the donations of Members and Trustees, \$106,541.43 have been contributed especially to the growth of the collections, to exploration and publication and to the development of the library. The explorations and researches of the year have been unusually extensive, and within the building plans have been completed for the better care and preservation of the collections. The exhibits in several of the halls have been rearranged to enhance their educational value. The record of all the accessions of the various departments, from the inception of the Museum to date, has been completed, and steps have been taken to give greater publicity to the Museum and its exhibits.

It is gratifying to report that the relations between the Museum and various institutions for higher education in the City are steadily becoming closer and more effective. The staff of the Department of Anthropology has prepared a series of lectures on the *Religion and Social Organization of Primitive Peoples*, which the students of Columbia University, New York University, the College of the City of New York and other institutions have been invited to attend. A further plan of educational coöperation in anthropology with Columbia University is under consideration. Classes from Columbia, under the direction of William K. Gregory, have met regularly at the Museum for the examination and study of the palæontological and zoölogical collections. Active coöperation with the College of the City of New York exists through the work of our Curator of the Department of Public Health, C.-E. A. Winslow, who is also Associate Professor of Biology at the College.

As shown in the full report of Curator Sherwood, the *Museum Extension System* now reaches 501 schools in the boroughs of the City, and 1,378,599 pupils have studied the Museum's circulating collections. The total number of collections in circulation during the past year was 597. The number of pupils of the public schools who attended the regular lectures in the Museum was 39,352, an increase of 7,423.

The extension of Museum instruction to the blind is progressing rapidly through the aid of the Jonathan Thorne Memorial Fund. The first of a series of annual lectures for the blind in the Museum was given by Rear Admiral Peary on December 18, followed by a special exhibition of our arctic collections.

The general attendance shows an increase of 19,700 over last year, the total being 866,663. The largest attendance is on Saturday afternoons, Sundays and holidays. The evening attendance on the two days of the week that the Museum is open has been very limited and does not justify the expenditure it entails.

STATISTICS OF NUMBERS REACHED BY THE MUSEUM
EXTENSION SYSTEM

	1907	1908	1909	1910	1911	1912	1913
Board of Education Lectures.....	35,068	43,386	28,402	43,549	40,067	52,855	48,119
Lectures to School Children and Classes visiting the Museum for study.....	37,483	39,179	36,236	24,894	39,379	49,872	56,899
Meetings of Scientific Societies and other Meetings and Lectures.....	11,784	15,587	27,369	15,712	18,649	28,384	33,357
Total.....	84,335	98,152	92,007	84,155	98,095	131,111	138,375
Attendance in Exhibition Halls.....	453,559	945,430	747,134	528,997	626,046	715,852	728,288
Total Attendance for all Purposes.....	537,894	1,043,582	839,141	613,152	724,141	846,963	866,663
Numbers reached by Circulating Collections.....	725,000	575,801	922,512	839,089	1,253,435	1,275,890	1,378,599
Grand Total....	1,262,894	1,619,383	1,761,653	1,452,241	1,977,576	2,122,853	2,245,262

The principal development for the welfare of the employes has been the establishment of the Pension System. At the Annual Meeting of the Trustees, February 3, the joint committee, consisting of a committee of employes appointed by the President and a committee of Trustees of which Felix M. Warburg was Chairman, recommended a plan for the establishment of a pension system for the American Museum of Natural History. The plan proposed was the result of a careful study of the problems involved in which the committees had the counsel and advice of Lewis L. Delafield and S. Herbert Wolfe, actuary. The Trustees adopted the plan recommended, to take effect March 1, 1913. This pension plan is a mandatory contributory system in which the employe contributes to the fund 3% of his salary and the Trustees provide an equal amount. It provides for pensions and limited life insurance based on length of service and age. The plan adopted has met with the nearly unanimous approval of the employes, as is evidenced by the fact that 230 out of 242 eligible employes have become subscribers. The pension fund is administered by a Board of Directors consisting of four Trustees and three employes. The system as a whole is working very satisfactorily and is being taken as a model by several institutions.



DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY
THE BOWFIN GROUP

The superb collection of Chinese bronzes, the gift of members of the East Asiatic Committee during the years 1901-1904, has recently been installed in the South-west Tower Hall. The collection was made by **Chinese Collections** Berthold Laufer in 1903, and so rare have these bronzes become, that it would probably be impossible to assemble a similar collection; indeed, the value of the collection has increased tenfold in the past decade. A *Guide Leaflet*, describing the Chinese collections, is in preparation by Doctor Laufer, who, after another trip to China in the interests of the Field Museum of Natural History, Chicago, will be prepared to write a descriptive *Monograph* of the bronzes.

Development of the biology and chemistry of the sea has been stimulated in the past two years through special addresses by the distinguished oceanographers Sir **Oceanography** John Murray and the Prince of Monaco. The carrying out of the exhibition plans in this department, however, is necessarily delayed until the East Wing, facing Central Park, is constructed, at which time the Prince of Monaco has promised to furnish extensive series of duplicates of the rare collections now contained in the Oceanographic Museum of Monaco.

The expedition to the Gulf of Mexico, in the U. S. S. "Albatross," under Charles H. Townsend, in the year 1911, was undertaken through the generosity of Arthur Curtiss James and in coöperation with the United States Bureau of Fisheries. A superb collection was secured both of the life of the sea and of the islands and mainland along the southern California coast, and the several reports on the material collected, including fishes, reptiles, birds, mammals, especially the Elephant Seals, mollusks, echinoderms and other invertebrates, as well as a special report on deep-sea fishes, will be brought together in a single volume. Parts II to IV have already appeared in the *Bulletin* of the Museum, while Parts V to VII are in preparation. This expedition added many new types to the Museum collections in every department.

The growth of the Library of the Museum during the past few years places it among the first five libraries in the country

Growth of the Library on the subjects of zoölogy, palæontology and general science. Inclusive of the serial publications and other volumes deposited

with the Museum by the New York Academy of Sciences, it contains 62,000 volumes; to this should be added the Osborn Library of Vertebrate Palæontology and Zoölogy, which contains 1,465 volumes and about 4,000 pamphlets. The total accessions during the year have been 2,656 for the General Library, and 651 for the Osborn Library. Exchanges of the Museum publications, as well as of duplicate volumes, have been established with all the important universities and museums in the United States, and the principal universities, museums and learned societies of the world, as, for example, the British Museum and the Vienna Academy of Sciences. There are now 316 of these institutions with which the American Museum regularly exchanges its publications, and the actual value of the publications received in exchange is approximately \$1,500. Through the system of inter-library loans our books now reach students and investigators in widely separated parts of the world; during the year we have made such loans to Harvard University, Yale University, Columbia University, Hamburgisches Kolonialinstitut, United States Geological Survey, the Brooklyn Institute of Arts and Sciences and the Field Museum of Natural History, as well as to other institutions in the South and West.

The experiment of opening a special Public Reading Room provided with popular natural history works on Museum collections has not been followed by sufficient patronage to warrant the expense of its continuance. The needs of those desiring literature on the collections are met by the provision of series of standard books and special guides which have been placed on tables in several of the exhibition halls. The serious-minded reader will find, as in the past, ample accommodation in the regular Reading Room of the Library.

Gifts to the Library are especially desired among the rarer monographic works in various branches of natural history and anthropology. The New York Public Library has recently

adopted a new ruling which provides for the temporary loan to the American Museum of rare monographs and serials not found on our own shelves.

The total amount expended on the scientific *Bulletins*, *Anthropological Papers*, *Memoirs* and *Monographs*, and on the popular publications, namely, the *Journal*, **Publication** *Guide Leaflets* and *Handbooks*, was \$25,789.15. This included the completion of what is perhaps the most important work ever issued from our press, namely, the *Monograph*, "A Review of the Primates," by Daniel Giraud Elliot, one of the scientific founders of the Museum. This monograph is issued in a new and special form, fully illustrated, on materials in the collections of American and foreign museums, brought together by the author. It has been welcomed by the zoölogists of the world as a most important contribution to a group which has never been monographed before, and it is a monument to the energy of its distinguished author, who has devoted eleven years to its preparation through continued research in this country and abroad.

The expedition under Vilhjalmr Stefánsson, sent out by the Museum in April, 1908, and exploring for four and one-half years along the arctic coast of North America, had as its chief result the rediscovery of the blonde Eskimo, which has attracted world-wide attention. Other discoveries by the two explorers, the leader and Rudolph M. Anderson, in geography, geology, botany and ethnology are hardly less important. The Museum expended all together \$13,254.39 on this expedition, and after the return of the explorers \$1,200 in the preparation of their reports. A popular summary of the results accomplished is given in Mr. Stefánsson's book "My Life with the Eskimo." The full scientific results are to be embodied in the joint report of the two explorers, which will appear during the present year.

Plans were completed by the American Museum of Natural History in coöperation with the National Geographic Society for the fitting out of a second expedition to carry research farther to the east, especially for the study of those Eskimo tribes not embraced in the Jesup North Pacific explorations.

These plans, however, were waived in favor of the Canadian Government, on learning directly through Premier Borden of the intention of the Government to send out, under the British flag, an expedition to explore its arctic possessions.

EXPLORATION IN 1913

A larger field of exploration has been covered than in any previous year. The total number of exploring parties was 23, the members of which have reached the Arctic and Antarctic Oceans, and many portions of North and South America, as well as of Africa. The results of these expeditions are immediately given to our supporting Members and to the people of the City through the press and through our *Museum Journal*, as well as through the medium of popular courses of lectures. Their final treatment is in the serious scientific publications of the Museum. It is the policy of the institution to distribute the photographs obtained by these expeditions, and lantern reproductions of them, as widely and liberally as possible, for the greater dissemination of science.

The Crocker Land Expedition, organized in coöperation with the American Geographical Society and the University of Illinois, left New York on July 2, 1913. Its staff, under the leadership of Donald B. MacMillan, who was trained by Rear Admiral Peary, is composed of a number of exceptionally fine young men, representing the States of Maine, Massachusetts, Illinois, Missouri, whose energy and enthusiasm will be strong factors in the success of the expedition. The expedition is thoroughly equipped for work in all branches of science. The unfortunate stranding of the "Diana," which was conveying the party to their proposed base at Flagler Bay, caused a serious delay, and, owing to the unusual ice conditions, the substitute ship, the "Erik," was unable to take the expedition farther north than Etah, Greenland, where winter quarters were established. It is not expected that the failure to reach Flagler Bay with the ship will prevent carrying out eventually the main purpose of the expedition, namely, the exploration of Crocker Land.

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LOCATION OF EXPLORING AND FIELD PARTIES IN 1913



- GEOGRAPHY AND GEOLOGY ●
MACMILLAN
- VERTEBRATE PALAEOLOGY ●
BROWN
GRANGER
THOMSON
- ANTHROPOLOGY ●
GOODARD
LOWIE
NELSON
SKINNER
SPINOEN
WISSLER
- INVERTEBRATE ZOOLOGY ■
CRAMPTON
LUTZ
MINER
- MAMMALS AND BIRDS x
ANDREWS
BECK
CHAPMAN
LANG AND CHAPIN
MILLER
MURPHY
RAINEY
RAINSFORD
RICHARDSON
ROOSEVELT



THE AMERICAN MUSEUM OF NATURAL HISTORY

Through the generosity of John Borden, of Chicago, Mr. Andrews accompanied him to Alaskan waters on his yacht "Adventuress," in search of a Bowhead Whale and other mammals of the arctic seas. Unavoidable delay in leaving San Francisco, together with the extraordinary ice conditions in Bering Sea, prevented the "Adventuress" from reaching the whaling grounds in time to get a specimen of the Bowhead. Mr. Andrews, however, visited the seal islands in behalf of the Bureau of Fisheries and took more than 4,000 feet of motion pictures showing the life on the seal islands. Through the courtesy of the United States Bureau of Fisheries, the Museum will possess a set of these pictures.

In the autumn of 1913, Lord William Percy received an appointment from the President as special field naturalist in ornithology. He is planning to visit Point Barrow, Alaska, in the summer of 1914 for the purpose of collecting and observing the numerous species of ducks which are found there, types of which he intends to present to the Museum. This young naturalist has made a special study of the ducks of the world, and his researches have the hearty endorsement of the Museum.

An expedition to South Georgia, fitted out by the American Museum in coöperation with the Brooklyn Institute of Arts and Sciences, was made possible through the contribution of Arthur Curtiss James of our Board. Robert C. Murphy of the Brooklyn Institute Museum was placed in charge and returned with important collections of birds and mammals and abundant scientific data, which will enrich both institutions. The vessel, under B. D. Cleveland, encountered unusually stormy weather, and the plan of securing examples of the southern Sea Elephant which is now nearly extinct, was frustrated by the failure of the Captain to carry out his agreement with the Museum.

NORTH AMERICA

The plan, begun in 1891, of securing for the Museum a complete representation of the extinct vertebrate life of North

America was continued in three expeditions. On its collection of Cretaceous dinosaurs, which forms one division of the whole plan, the Museum has now devoted eight years, and the work of the party under Barnum Brown, along the Red Deer River of Alberta, Canada, was rewarded by the discovery of several fine types of dinosaurs which nearly brings this great project to completion. This work will be continued one year more, with the approval of the Canadian Government.

The great mammal quarry of Lower Miocene age in western Nebraska was explored for the third season by Albert Thomson, with the courteous aid of the owner, James H. Cook, and materials have been secured for a life group of the period. Important discoveries were also made in New Mexico and in Wyoming, of new forms representing the dawn of mammalian life on the continent, under the leadership of Walter Granger and William Stein.

The Museum is bringing to a close its series of researches, beginning in 1902, on the cultures and ceremonials of the Indians of the Northern Plains which has been carried on during the last twelve years by the Department of Anthropology, with explorations in the field by Curator Wissler, Associate Curator Lowie and Assistant Curator Skinner. This material has been published in fourteen issues of the series of *Anthropological Papers*, aggregating 1,840 pages. These and the volumes in preparation will mark the completion of a very important work projected by Curator Wissler on assuming charge of the department.

The study of the primitive peoples of the Southwest, their ethnology and archæology, with the support of Archer M. Huntington, is now in its fifth year. Especial exploration has been carried on in Arizona, New Mexico and Mexico by Doctors Goddard, Spinden and Nelson, and the collections and photographs secured by these expeditions are being used to enrich the Southwest Indian Hall, also in the preparation by Messrs. McCormick and Young of the first Indian life group, namely, of the Hopi.

Mr. Miner visited Nahant, Massachusetts, and Passamaquoddy Bay to collect marine invertebrates. Doctor Lutz and Mr. Leng spent several weeks in Cuba, continuing their studies of the geographical distribution of insects. Curator Crampton has just left for Porto Rico to make a reconnaissance preparatory to the biological survey of the island which is to be made in conjunction with the New York Academy of Sciences. It is expected that this survey will extend over a period of five years.

SOUTH AMERICA

South America presents some of the most interesting problems of animal distribution, and the Department of Ornithology has confined its field work during the year to this region, this being the third year of the Museum's special exploration in South American bird life. Under the direction of Curator Chapman an ornithological survey has now been made from the west coast across the three chains of the Andes, and much important data on the distribution of bird life have been brought to light. Early in the year, Mr. Chapman, accompanied by L. A. Fuertes, George K. Cherrie and three assistants, visited in person the Bogotá region of Colombia and secured more than 2,000 birds from the eastern Andes. In the meantime, Leo E. Miller was continuing his field work in northeastern Venezuela and British Guiana, while William B. Richardson carried on explorations in Ecuador from the arid coast region to the alpine zone of Mount Chimborazo. These latter expeditions were made possible through the generosity of the late George S. Bowdoin.

Museum exploration has been extended into Paraguay and Brazil under the leadership of Theodore Roosevelt, who invited the Museum to send two of its collectors with him on his South American Expedition, which left the Paraguayan territory about the middle of December. Colonel Roosevelt bears all the expenses of these collectors, except their salaries, which have been provided by Cleveland H. Dodge.

The Museum will directly profit by the deposit of the collections made by Rollo H. Beck for the Brewster-Sanford collection. Frederick F. Brewster, of our Board, and Leonard

C. Sanford, of New Haven, are engaged in getting together a complete collection of the shore and oceanic birds of South America, which, with Dr. Sanford's private collection of shore birds, is being deposited in the Museum.

EUROPE

Supplementing the archæological work projected by the President during his visit to the prehistoric caverns of France, Spain and northern Italy last year, Curator Nelson visited fifty important sites of archæological interest in Europe and through the courtesy of Professors Boule and Obermaier secured data for the construction of a model of a cavern of Castillo, Spain.

AFRICA

The Congo Expedition, under Messrs. Lang and Chapin, which in coöperation with the Belgian Government has been carrying on active field work for the past four years, is now devoting its entire attention to the shipment of its collections. It is expected that the expedition will reach New York early in the present year. Messrs. Lang and Chapin have had a phenomenal record. They have not been ill a day during a four years' sojourn in the tropics and have gotten together probably the most extensive and valuable collection of the Congo fauna ever assembled. When added to what we already possess through earlier expeditions to Africa, our African collections will not need any large additions, and field work in this continent will be discontinued for the present. Among the important desiderata in our African mammal collections are specimens of the Gorilla, which it is hoped that the Museum may be able to secure through the coöperation of the New York Zoölogical Society.

Our East African collections have been further enriched during the year by the Third African Expedition, under William S. Rainsford, who returned in April, and by gifts from Paul J. Rainey and A. Barton Hepburn. It is the wealth of material secured by these expeditions which makes so imperative adequate plans for the preparation of our collections.



“THE LAST STAND”

Model by Carl E. Akeley for Elephant Bronze

James Barnes and Cherry Kearton, the noted animal photographer, are now engaged in taking motion pictures and other photographs of the wild game of Africa. Messrs. Barnes and Kearton have the endorsement of the American Museum in this work, and their first public appearance, when they return, will be before the Members of the Museum. They will also present a set of their pictures to the Museum.

Beginning with the Tjäder Expedition in 1906, the Museum has been continuously exploring in Africa, under the leadership of Messrs. Lang and Chapin, William S. Rainsford, and recently with the coöperation of Paul J. Rainey. It is expected also that the Museum will secure a portion of the Clark collection, obtained in 1909. This representation of the life of east, west and central Africa involves an immense amount of preparation. The proper care and exhibition of these materials are problems of ever-increasing magnitude. As our present series of expeditions is drawing to a close, special attention is being given to the matter of exhibition. The Museum is fortunate in having secured Carl E. Akeley, an eminent and skilful animal sculptor and preparator, to direct this work. The Southeast Pavilion has been emptied of its exhibits and set aside for the preparation of the African collections. Mr. Akeley is now engaged in mounting his group of African Elephants for the Museum, and at the same time is maturing plans for the permanent African Hall. As a part of the comprehensive plan for this hall, he is preparing a large model to scale.

JESUP FUND

The terms of the bequest of Mr. Jesup placed no restrictions on the use of the income from the Jesup Fund, except that it should not be used for maintenance purposes, *i. e.*, for obligations which it was proper for the City to pay. The income of the Jesup Endowment Fund, now amounting to \$50,997, has been expended during the year for the following purposes :

The purchase of specimens and collections for practically all the departments of the Museum, including :

Preparation of African Collections

Material for reproduction of Weyers Cave
 Paintings for Northwest Coast Hall
 African collections
 Preparation of African collections
 Educational extension
 Herpetological groups

For exploration

To Crocker Land
 To the Congo
 To Alaskan waters for Bowhead Whale
 To Alberta, Wyoming and New Mexico for fossils
 To Montana, North Dakota, New Mexico, Wisconsin, Manitoba
 and Saskatchewan for work among the Indians
 To Nova Scotia and Cuba for marine invertebrates and insects

For the purchase of books for the Library

For the development of the Jesup Collection of North
 American Woods

For scientific publications, including the *Memoirs* of
 the Jesup North Pacific Expedition and the Elliot
 "A Review of the Primates."

Of the twelve *Memoirs* of the Jesup North Pacific Expedition, begun in 1898, under the editorship of Professor Franz Boas of Columbia University, seven volumes and one part each of two volumes have been completed, Part III of Volume VIII, "The Eskimos of Siberia," by Waldemar Bogoras, having been issued during the year. There remain two full volumes and one part each of two volumes to complete this important series. The editor reports that Dr. Oettinger is now engaged on the data for the volume on Physical Anthropology, and that he hopes the entire series of these *Memoirs* will be completed at an early date.

BUILDING, EQUIPMENT AND MAINTENANCE

In view of the present financial condition of the City, the Board of Estimate and Apportionment has suspended all appropriation for building. Consequently all work on the construction of the Southeast Wing and Court Building has stopped, although the excavation for the foundation has been entirely completed and everything is ready to proceed with the construction of these

**Suspension
 of Building**

buildings, which are so much needed to care for the valuable collections which are now awaiting exhibition. The cessation of all building is most unfortunate since it jeopardizes the building program which the Trustees had planned to carry out in time for the celebration of the fiftieth anniversary of the Museum in April, 1919. It is very important that the half century mark should be fittingly commemorated. In this connection, the opinion of Colonel Theodore Roosevelt regarding the ideals of municipal government, which was displayed at the recent City Planning Exhibition, may be appropriately quoted:

“The powers of municipal government should be actively employed to secure not merely honesty, economy and efficiency in administration, stability in public credit, and enforcement of the law, but also better housing and living conditions for wage earners; more adequate means of effective, continuous control over franchise-holding public utilities; a more comprehensive system of public parks and playgrounds; a coördinated and cheapened system of transportation to make the suburban districts a unified part of the greater city; the socialization of the facilities for the public enjoyment of music, art, science, athletic diversions and the like; a readjustment of taxation so as to make its burdens more equitably distributed, and the exercise of the taxing power of the State a factor for economic justice.”

Adequate provision for preserving the valuable material now in hand is quite as pressing as the erection of buildings.

Equipment and Casing Without proper casing, the exhibition and study collections will seriously deteriorate. Late in 1912 it was evident that the appropriation of 1911, for casing and other permanent improvements, would soon be exhausted. Consequently application was made, on November 22, 1912, to the City for an additional appropriation of \$75,000 for this purpose. After long consideration the City authorities finally appropriated \$25,000 for equipment purposes, which became available December 16, 1913. This sum is insufficient to provide for our present collections, and an application for additional funds has already been made.

Complying with a request from the Department of Finance, a complete inventory of the property of the City in the Museum has been prepared under the direction of Mr. **Inventory of Property** Smyth, the Bursar. This work was begun in June, 1912, and was completed in June, 1913. It has involved an expenditure by the Trustees of \$1,500. The inventory accounts for 9,430 items, which had an original value of \$806,982.44, with a present valuation of \$616,102.99.

SUMMARY OF EXPENDITURES BY DEPARTMENTS FOR 1913

	Municipal Appropriation for Maintenance	Trustees' Funds		Total
		General Purposes	Special Purposes	
Geology and Invertebrate Palæontology.....	\$4,313 42	\$9,850 74	.....	\$14,164 16
Mineralogy.....	1,912 14	1,688 69	\$660 00	4,260 83
Mammalogy.....	5,051 09	31,267 76	5,723 09	42,041 94
Vertebrate Palæontology.	5,102 37	26,074 26	2,925 00	34,101 63
Professor Osborn's Re- search and Publication Fund.....	.....	4,000 00	.....	4,000 00
Anthropology.....	6,637 08	22,008 43	4,125 99	32,771 50
Invertebrate Zoölogy....	6,055 03	8,049 50	25 00	14,129 53
Ichthyology and Herpe- tology.....	3,037 90	4,386 08	1,341 98	8,765 96
Anatomy and Physiology.	30 52	2,452 66	.....	2,483 18
Public Health.....	1,828 28	1,917 83	374 25	4,120 36
Woods and Forestry	8 00	3,108 42	.....	3,116 42
Library.....	8,599 58	9,129 64	.....	17,729 22
Publications.....	.....	25,789 15	758 85	26,548 00
Public Education.....	5,064 99	6,602 83	1,044 11	12,711 93
Preparation and Exhibition	2,300 65	25,476 47	.....	27,777 12
Heating and Lighting....	19,964 58	2,654 74	.....	22,619 32
Repairs and Installation..	28,774 90	1,381 44	.....	30,156 34
General Supplies and Ex- penses..	10,009 74	16,373 17	.....	26,382 91
Administration.....	91,309 73	2,940 45	.....	94,250 18
Pension Fund.....	.....	6,465 72	.....	6,465 72
Interest on Bank Loans..	.....	1,040 07	.....	1,040 07
Miscellaneous.....	.....	.....	1,369 48	1,369 48
	<u>\$200,000 00</u>	<u>\$212,658 05</u>	<u>\$18,347 75</u>	<u>\$431,005 80</u>

Total Expenditures from Trustees' Funds..... \$231,005 80

Total Expenditures from Municipal Funds..... 200,000 00

Total..... \$431,005 80

HOSPITALITIES TO SOCIETIES AND ORGANIZATIONS

As usual, the Museum has been the host of many scientific, civic and educational organizations, which have held meetings in New York during the year.

The New York Academy of Sciences and Affiliated Societies have held their regular meetings at the Museum as in past years. In coöperation with the American Scenic and Historic Preservation Society, "Hiawatha," in motion picture, under the direction of F. E. Moore, was given at the Museum in April. In coöperation with the same Society, a mass meeting in connection with the preservation of the Yosemite National Park and the Hetch-Hetchy Valley was held in November. Addresses were made by President Osborn, Robert Underwood Johnson, George F. Kunz and others interested in the preservation of the scenic beauties of America.

Albert, Prince of Monaco, accepted the invitation of the Museum and the New York Academy to address the members of these societies, and, on the evening of October 27, delivered an illustrated lecture, describing the oceanographic work which he is carrying on. Some of the results of his researches will be presented in the Museum's future Oceanographic Hall.

During the year the New York Academy of Sciences has held two general meetings and receptions for the purpose of arousing a greater interest in the work of the Academy. At the first meeting, held in April, Bergen Davis gave a non-technical presentation of the present knowledge regarding electricity. At the second meeting, held in November, Ellsworth Huntington gave an address on "Changes of Climate during Historical Times."

One of the most attractive exhibitions of the year was the flower exhibit held in November under the auspices of the Horticultural Society of New York. This attracted more than 167,000 visitors to the Museum during the week in which it was held.

In connection with the Triennial Convention of the Protestant Episcopal Church, held in New York in October, the Trustees extended a reception to the bishops and

clerical and lay deputies on the evening of the eighteenth. A musical program was provided and the guests were invited to inspect the exhibition halls. The entire cost of this reception was met by private subscription.

In addition to these the following Societies or Organizations have enjoyed the hospitality of the Museum for their meetings during the year:

American Anthropological Association
 American Bison Society
 American Ethnological Society
 American Folk-Lore Society
 American Nature Study Society, New York Branch
 American Ornithologists' Union
 American Psychological Association, New York Branch
 American Scenic and Historic Preservation Society
 Aquarium Society
 Audubon Society of the State of New York
 Department of Education, New York City
 Department of Health, New York City
 Diocesan Convention of the Protestant Episcopal Church
 Graduate and Undergraduate Classes from Columbia University
 Horticultural Society of New York
 Linnæan Society of New York
 Monday Club of the City of New York
 Mount Holyoke Alumnae Association
 National Association of Audubon Societies for the Protection of Wild
 Birds and Animals
 National Association of Gardeners
 National Plant, Flower and Fruit Guild
 Natural Science Committee of the Associate Alumnae of the Normal
 College of the City of New York
 New York Academy of Sciences
 New York Electrical Society
 New York Entomological Society
 New York Microscopical Society
 New York Mineralogical Club
 Public Schools Athletic League, Girls' Branch
 School Garden Association of New York
 Society of American Bacteriologists
 Torrey Botanical Club

IMPORTANT GIFTS

Many rare and important specimens come to the Museum through special gifts of Trustees and Members, and this generous support has been noticeable during 1913. The Trustees

have contributed \$64,000 for the general development of the Museum, while the contributions of Trustees and Members together for general and special purposes have been \$106,541.43.

As has been the case for many years, the New York Zoölogical Society has presented to the Museum a large number of zoölogical specimens, which are separately acknowledged in the department reports. The gifts this year include two Giraffes, a Spectacled Bear, Grant's Zebra, Tasmanian Wolf and many other specimens of mammals, birds and reptiles. A summary of the gifts from the Zoölogical Society, the Aquarium and the Central Park Menagerie is as follows:

	Zoölogical Society	Aquarium	Department of Parks
Mammals	27	2	31
Birds	110	..	37
Reptiles.....	82	2	5
Batrachians.....	17	2	..
Fishes .....	..	21	..
	<hr/> 236	<hr/> 27	<hr/> 73

One of the most notable gifts of the year was the Mason Archæological Collection from the vicinity of Jonesboro, Tennessee, presented to the Museum by J. P. Morgan. It contains several remarkable engraved shell gorgets and a number of unusual stone implements, among which are two large exceptional celts. The entire collection came from one locality and thus constitutes an important addition to the Museum's series from the Eastern States.

Another gift of note is the Angelo Heilprin Exploring Fund established by Mr. and Mrs. Paul J. Sachs. Mr. and Mrs. Sachs have agreed to contribute \$500 annually to this fund, which is designed as a memorial to the late Angelo Heilprin, the distinguished artist and geologist, this sum to be devoted to some appropriate exploration.

The first use of the fund will be to aid in completing the studies of West Indian volcanoes begun by Curator Hovey in 1902.

Through the generosity of Mrs. E. H. Harriman, our ethnological collections have been enriched by the gift of a rare costume decorated with porcupine quillwork, from the Mandan Indians, a tribe that was once historically prominent along the Missouri River, but now nearly extinct.

Captain Roald Amundsen has presented the Museum with one of three sledges used by him on his successful expedition to the South Pole. This makes a very desirable companion piece to the Morris K. Jesup sledge which was used by Rear Admiral Peary on his North Polar trip.

The Museum is indebted to Paul J. Rainey for the gift of a collection of 87 mammals from British East Africa, containing excellent material for Leopard, Cheetah and Forest Pig groups, and a record Lion. Through the assistance of Mr. Rainey many important additions are being made to our African collections.

The interest taken in the work of our expeditions by residents of the country to which they go is frequently responsible in great part for the success of the expedition. Usually this help consists of information concerning local conditions, letters of introduction and the like. In this way Carlos de la Torre of Havana and Charles T. Ramsden of Guantanamo were of great assistance to Dr. Lutz and Mr. Leng in their recent trip to Cuba, but they contributed in a tangible way also by the gift of species which the expedition would not otherwise have obtained. Dr. de la Torre gave us more than six hundred specimens of relatively rare Cuban land shells and Mr. Ramsden about two hundred and fifty specimens of insects from eastern Cuba.

MEMBERSHIP AND STAFF

At the Annual Meeting in February, Frederick F. Brewster was elected a Trustee in the Class of 1916. Mr. Brewster is interested with Leonard C. Sanford in making a collection of oceanic and shore birds of South America, which is being deposited at the Museum.

It is with extreme regret that we announce the resignation of William Rockefeller, who because of ill health feels obliged to retire from our Board. Mr. Rockefeller has been a Trustee since 1895, and has always been a generous supporter of the institution.

There have been few changes in the Scientific Staff during the year. We greatly regret that the demands upon Curator

Dean, in connection with his services for the Metropolitan Museum of Art, have necessitated his retirement from the active direction of the Department of Ichthyology and Herpetology. His administration has been eminently successful and productive of results, and we are glad to say that he has been retained in an advisory capacity as *Curator Emeritus*. Dr. Dean will serve gratuitously, but in order that he may continue several important publications which are in preparation, the Trustees have provided him with a research and publication fund of \$1,200 per annum.

Early in the year, G. Clyde Fisher of The Johns Hopkins University was appointed Assistant Curator in the Department of Public Education and entered upon his duties June 1. Doctor Fisher is devoting himself to the extension of our educational work with the schools.

The Director and Assistant Curator Miner were the official representatives of the Museum at the meeting of the American Association of Museums, held at Philadelphia, June 3 to 5.

Curator Allen was the official delegate of the Museum to the Ninth International Zoölogical Congress, held at Monaco in March.

Curator Hovey represented the Museum at the International Geological Congress, Twelfth Session, held in Canada in August.

Curator Winslow represented the Museum at the Fourth International Congress on School Hygiene, held at Buffalo, August 25 to 30.

Assistant Curator Gregory was the official representative of the Museum at the meetings of the British Association for the Advancement of Science, held in Birmingham in August.

The following promotions have been made in the Scientific Staff :

Bashford Dean, Ph.D., Curator Emeritus, Department of Ichthyology and Herpetology.

Mary Cynthia Dickerson, B.S., Associate Curator of Herpetology

A. J. Mutchler, Assistant, Department of Invertebrate Zoölogy.

Israel J. Kligler, B.S., Assistant, Department of Public Health.

The following are the new appointments:

G. Clyde Fisher, Ph.D., Assistant Curator, Department of Public Education.

Daniel Moore Fisk, B.S., Assistant in Invertebrate Zoölogy.

The following were the resignations during the year:

Rudolph M. Anderson, Ph.D., Assistant in Mammalogy.

Daniel Moore Fisk, Assistant in Invertebrate Zoölogy.

I. GENERAL ADMINISTRATION

FREDERIC A. LUCAS, Director

Perhaps the most important feature of the year has been the success of the various expeditions, discussed at length by the President, which have brought to the Museum many desirable specimens from various parts of the world.

General Considerations

In the Museum continued progress has been made in caring for the study series and improving the arrangement of the exhibits.

The Local Bird Collection has been removed to the second floor, near the systematic series of birds, the cases made over and the attractiveness and usefulness of the series enhanced by the inclusion of a large number of the small groups until now displayed in the Primate Hall. The collection of the Department of Public Health has been placed on the third floor and is one of the few that is systematically and uniformly cased and labeled.

The Forestry Hall has been opened in its entirety and the Shell Hall is the only one now closed. It had been planned to open a portion of this hall during 1913, but the rearrangement has proceeded so rapidly that it has seemed best to wait until its completion and open the entire hall in 1914.

The Visitors' Room, opened on January 3, has proved a great convenience to the public, and is used by nearly one thousand people monthly. The greatest number of publications, however, is sold in the corridor near the elevator.



VISITORS' ROOM

FOR THE CONVENIENCE OF THE PUBLIC

Popular Publications and Picture Postcards of the Museum will be found on sale here

Owing to the lack of an appropriation by the City, the construction of the Southeast Wing and Court Building has not been commenced. Both of these buildings are much needed, not only for new exhibits, notably the whales and other marine mammals, but for the orderly arrangement of specimens already on hand. Thus the Asiatic mammals are placed wherever space can be made for them, the reptiles and fishes are in temporary quarters, while the great carnivorous dinosaurs, *Tyrannosaurus*, will be mounted in a hall from which they must ultimately be moved at considerable cost.

Another important but more or less temporary change, due to lack of room, is the removal of all specimens from the Southeast Pavilion, second floor, to provide room for the preparation of the group of African Elephants by Mr. Akeley, and later on for the mounting of other African mammals.

Through the liberality of Emerson McMillin, the East Assembly, or Academy Room, has been practically made over, the walls covered with felt to prevent the unpleasant echo, and this faced with Caracas cloth. It is intended to complete the improvements by replacing the hard tile floor with "Dreadnought" tiling. A similar floor is greatly needed in the West Assembly Hall, where the acoustics are also bad.

Extensive changes are needed in the large auditorium, which has been unsatisfactory from the very first. Professor Sabine, the eminent authority on acoustics, made a careful examination of this hall and submitted a report on the changes needed. Owing to the cost of the alterations (about \$4,000), it is not possible to effect these improvements at present, though every one who has attended a lecture in this hall knows how much they are needed.

The room for the preparation of skeletons, which has been in very bad condition for some years past, has been practically made over, provided with tileine floor and put in a sanitary condition.

A room for the display of the groups of reptiles, made necessary by their withdrawal from the Southeast Pavilion, was built in the Central Pavilion, and, as this collection grows, a second room will be needed. These will be temporary, since

this hall is required for other purposes and the reptiles are to be placed ultimately in the East Wing.

The completion of the new printing room, which was occupied in February, has added vastly to the efficiency of the printing force, which was seriously handicapped by the cramped and inconvenient quarters in which it was located.

The Director would call attention to the need for a building in the Southwest Court for workrooms, storage of molds and other material, and to provide a hall for temporary exhibits, such as that made by the Horticultural Society. Such a building would be comparatively inexpensive and would greatly increase the efficiency of the Museum and its ability to meet the frequent calls for exhibition space. The Department of Preparation at present occupies what will be the West Transept, and other workrooms are located in various parts of the building, while molds and casts, the accumulation of years, are placed anywhere and everywhere, often where they are almost inaccessible.

The retirement of a number of skilled mechanics, necessitated by the lapse of the construction fund, has naturally lessened the amount of case, repair and other work, though the output, under the direction of H. F. Beers, Chief of Construction, has been satisfactory. It should be noted that, aside from cases, all such work as the reconstruction of the Academy Room, the making over of the room for the preparation of skeletons and the making of new offices and storage rooms, is done by the Museum force.

Among the items of work were the making of twenty-nine metal-frame cases, including those for the Copper Queen Mine Model and the Alaska Moose; seven wooden cases, fifteen tables, twenty screens and 1,675 storage trays.

The department of construction has also made and lettered many signs and many more labels used for cases or divisions of the exhibits.

Important new exhibits, completed during the year, are the beautiful Vineyard Haven group of invertebrates, showing the animals found on the piles of an old wharf, **Exhibits** the section of the Copper Queen Cave, the reptiles of a Lower California desert island, and the model of the House-fly in the Department of Public Health.

A small exhibit that has proved attractive to many is one comprising the moths of the "Limberlost," prepared in response to numerous inquiries regarding the moths mentioned in "The Girl of the Limberlost."

Several important additions have been made to the series of glass models, representing on an enlarged scale typical forms of invertebrates.

Additions have been made to the group in the large Haida canoe, two figures added to those in the African Hall, and four large panels, illustrating the Maoris and their customs, have been painted for the New Zealand room, all prepared by Mr. Operti.

Most of the African mammals, which have been scattered through various halls, have been placed in large wall cases in the African Hall; the cases at the south end of this hall have been filled with exhibits and the wall above used for reproductions of Bushman rock paintings.

Special attention is called to the progress made in the exhibits of fishes and reptiles, which a few years ago were quite unworthy of this Museum, but which are now most excellent and include very interesting and attractive groups.

The Museum is justly celebrated for its series of Habitat Groups of Birds, but it should be noted that the groups of reptiles and marine invertebrates are not a whit less beautiful and instructive.

The Director hopes that, in connection with the proposed memorial tablet to J. Pierpont Morgan, it may be possible to commence the work of reinstalling the gem collection, and improving the room in which this is contained, so that all may be in harmony. The desirability of doing this was pointed out in the *Report* for 1912, and the need is now greater than ever.

The output of the printing office, under the efficient supervision of Miss Beale and Mr. Klassen, has been eminently satisfactory, and in this the removal to new, larger and more convenient quarters has been an important factor. The total number of impressions is something over half a million, including a great variety of work, from simple letter-heads to pamphlets and circulars of several pages. It is probable that the varied

Printing and Labeling

interests of this Museum call for a larger amount of printing, and one more diversified in its nature, than is needed in any similar institution. Careful observation shows that this large amount of printing is not only done more promptly and efficiently than it could be outside the Museum, but also more economically, this in addition to the convenience of all concerned and the saving in the time of the officers of the various departments.

SUMMARY OF PRINTING

1913

Letter-heads.....	38,100
Field and Reserve Collection Labels.....	35,945
Report, Requisition and similar forms.....	70,850
Catalogue Cards, Postals, Tickets, etc.....	84,325
Programs, Circulars, Statements.....	234,722
Envelopes, Miscellaneous.....	47,048
Individual Labels.....	2,086
Descriptive Labels.....	1,984
	4,070 (average of 5 each)
Total number of impressions.....	531,340

The report of the Registrar, George N. Pindar, states that the number of accessions during the year was 821, the number of shipments 4,685, comprising 9,393 packages; also that he has succeeded in preparing a complete list of the accessions since the establishment of the Museum, and that this has necessitated the preparation of no fewer than 35,000 cards. The work has taken much time, owing to the difficulty of obtaining information regarding the earlier accessions.

In this connection it should be noted that the Registrar not only keeps the record of all accessions and shipments, but that his position as Secretary of the Pension Board entails a large amount of work and that as Chairman of the Publicity Committee he has designed and had prepared for distribution various placards, notices and folders calling attention to the educational opportunities offered by the Museum. In this connection we desire to acknowledge our indebtedness to the Pennsylvania Railroad Company for their courtesy in placing the Museum's poster in their suburban stations and to the hotels of the city who have distributed our folders.



VISITORS ENTERING THE MUSEUM

In one afternoon 97,953 visited the Museum to view the annual Flower Exhibition of the Horticultural Society of New York

Under the supervision of the Bursar, F. H. Smyth, the property list of the furniture and equipment of the Museum has been completed and filed with the Department of Finance, and each piece of furniture provided with a metal tag bearing its number. It is to be noted that the need of such a list was recognized and that the list was well advanced long before it was requested by the City authorities.

Under the direction of J. B. Foulke, Superintendent of Building, the many keys in use in the building have been carefully rearranged and provided with metal tags bearing the symbol of their respective rooms, and the card catalogue showing the responsible holder of the keys is well advanced.

As noted in the *Report* for 1912, the material in the various departments is mostly catalogued, the exception being the Department of Invertebrate Zoölogy, which deals with such vast numbers of minute creatures that it is a physical impossibility to catalogue them as fast as they can be collected. For example, 1,067 insects were collected during the brief expedition to Cuba, while in 1911, something like 70,000 specimens were added to the collections.

Following is a list of the catalogued and uncatalogued specimens in the various departments:

	Catalogued	Uncatalogued
Department of Geology and Invertebrate Palæontology.	98,000	400,000
Department of Mineralogy	20,266	672
Department of Invertebrate Zoölogy	98,095	1,480,000
Department of Ichthyology and Herpetology.	18,257	2,000
Department of Mammalogy and Ornithology.	147,600	4,500
Department of Vertebrate Palæontology.	18,356	20,661
Department of Anthropology.	208,887	....
Department of Public Health.	633	....
Department of Woods and Forestry.	607	999
Department of Books and Publications	67,465	....
Department of Public Education.	95,556	836
Total.	773,722	1,909,668

It is again encouraging to record an increase in the attendance, especially in the number of those who are visitors to the Museum itself and who are not attracted by the **Attendance** lectures or other meetings. It has always been the belief of the Director that temporary exhibits, no matter how attractive, do not result in any real profit to a museum,

or permanent gain in attendance, while the time and money involved cause direct loss to the arrangement and care of the collections. Figures show that after each large special exhibition there is a drop in the number of museum visitors, and it is very evident that the interests of a museum are best served by attention to the display and labeling of its own material.

MUSEUM ATTENDANCE

	1910	1911	1912	1913
Net attendance, including Flower Show.....	528,997	626,146	715,852	728,288

Under the supervision of Mr. Foulke, Superintendent of Building, the housekeeping of the Museum has been most admirably cared for. How much work this **Care of Building** calls for may be appreciated to some extent by saying that the exhibition halls alone cover eight acres, and that a single case often contains more glass than all the windows in the front of an ordinary four-story house. As a member of the Publicity Committee, Mr. Foulke has also taken an active part in placing the posters and folders calling attention to the Museum.

The work of sandblasting the windows has been interrupted by the retirement of a number of the construction force, made necessary by the lapse of the building fund; nevertheless, some progress has been made in this important work. In other ways various improvements have been made and the condition of the exhibition halls is better than ever.

The Director once more calls attention to the need of a special appropriation for extensive repairs to the heating apparatus in the North Wing, and also the need for replacing the old electric lights and fixtures by modern appliances. It is again noted that with the present system it is impossible to light the entire building at one time, and while many improvements have been effected, yet with the present force and funds, comparatively little can be done.

EXCHANGES

During the year exchanges have been made with the following institutions:

Bonn University, Bonn, Germany

British Museum of Natural History, London, England

Columbia University, New York, N. Y.
Durban Museum, Natal, Africa
Field Museum of Natural History, Chicago, Ill.
Geological Survey of India, Calcutta, India
Geolog-palæontologisches Institut, Göttingen, Germany
Imperial Academy of Science, St. Petersburg, Russia
Konigl. Naturalien-Sammlung, Stuttgart, Germany
Marine Biological Laboratory, Woods Hole, Mass.
Michigan Agricultural College, East Lansing, Mich.
Museo Ethnografico, Buenos Aires, S. A.
Museum of Comparative Zoölogy, Cambridge, Mass.
New York State Museum, Albany, N. Y.
New York State College of Agriculture, Ithaca, N. Y.
Peabody Museum, Cambridge, Mass.
Peabody Museum, New Haven, Conn.
Provincial Museum, Toronto, Canada
Queensland Museum, Brisbane, Australia
Royal Scottish Museum, Edinburgh, Scotland
Scottish Oceanographical Laboratory, Edinburgh, Scotland
Shanghai Museum, Shanghai, China
State Normal School, Los Angeles, Cal.
Taiwan Sotokufu Chugakko, Formosa, Japan
United States National Museum, Washington, D. C.
University of California, Berkeley, Cal.
University College, Reading, England
University of Wyoming, Laramie, Wyo.
Walker Museum, Chicago, Ill.

II. REPORTS OF THE DEPARTMENTS

PUBLIC EDUCATION

DEPARTMENT OF PUBLIC EDUCATION

GEORGE H. SHERWOOD, Curator

The chief purpose of the Department of Public Education is to bring the Museum into close touch with the Public Schools, that is, to take the results attained by the various other departments and to make them usable, in so far as practicable, to the teachers and pupils of the schools of New York City and vicinity. In short, it is the aim of this department to aid in accomplishing the great function of the Museum as an educational institution.

G. Clyde Fisher, a graduate of The Johns Hopkins University, was appointed Assistant Curator, and entered upon his duties June first.

The Fourth Annual Teachers' Day was held at the Museum on November 8. Brief addresses were made by the Curator, Director Lucas, and William H. Maxwell, Superintendent of Schools of New York City. These were followed by an illustrated lecture by Ernest Harold Baynes on "Our Wild Animal Neighbors," an address which was exceedingly well adapted to stimulate nature study. This meeting afforded an excellent opportunity for getting acquainted with the teachers and for finding out their needs; and on the other hand, the teachers became more familiar with what we are attempting to do for the schools. About 700 teachers were present.

As usual, the circulating collections have been supplied to the schools of the city. This work occupied practically the entire time of two messengers.

Museum Extension Work to the Schools

The number of schools supplied regularly since January 1 is 501. By boroughs they are listed as follows:

Manhattan	171	Richmond.....	17
Brooklyn.....	157	Parochial Schools.....	4
Queens.....	48	High Schools.....	21
Bronx.....	51	Private Schools and Colleges..	10
		Corporate Schools.....	22

STATISTICS RELATING TO THE CIRCULATING COLLECTIONS

	1907	1908	1909	1910	1911	1912	1913
Number of Collections in use.....	450	484	435	390	512	537	597
Number of Schools of Greater New York supplied...	325	383	419	334	486	491	501
Number of Pupils studying the Collections	725,000	575,801	922,512	839,089	1,253,435	1,275,890	1,378,599

The number of collections in use during the year was 597. This is exclusive of special collections of shells, crustaceans,

etc., which were frequently furnished on request. This number also does not include ten cases of casts of animals for the use of the blind.

According to statistics furnished by the teachers the regular collections were studied by 1,378,599 pupils.

Fifty cases of our circulating collections were rented to the Newark Public Schools.

An exhibit of dolls and toys and photographs of Indian children was placed in the Ethical Culture Society building, November 19-22, as a part of the exhibit of the Work and Play Committee of the Federation for Child Study.

Under the supervision of C.-E. A. Winslow, Curator of the Department of Public Health, two new collections have been added to our series. In addition to the folio

**Circulating
Public Health
Collections**

of eighteen photographic charts illustrating the spread and prevention of communicable disease, we now have one folio of twelve charts illustrating insects as carriers of disease, and one of eight charts illustrating bacteria and their work. There are ten sets of each of these three folios, each accompanied by an explanatory guide. Not quite all of these have been available for the schools, because of requests for their use from organizations, such as the Fourth International Congress on School Hygiene, held at Buffalo, August 25-30, and the National Conservation Exposition, held at Knoxville, Tennessee, October 1-15, and from various public libraries.

These public health charts were carefully examined by W. F. Unia Steyn Parvé, Medical Inspector of Schools of Deventer, The Netherlands, with a view to adopting them for use in the schools with which he is connected. They, as well as our other circulating collections, were also examined by C. V. Hartman, of the Naturhistoriska Riksmuseum of Stockholm, with a view to using them in museum extension work. Duplicate sets of these charts were sold to the University of Texas, and photographs of some of the charts to the North Carolina State Board of Health.

A party of forty-seven Russian educators examined the circulating collections during a visit to the Museum in August.

During the spring and again during the autumn, three series of lectures of six each were given by members of the Museum staff, on Monday, Wednesday and Friday afternoons at four o'clock. One series was devoted to the geography of foreign lands, another series to the geography of the United States, and a third series to American history, and all were planned to correlate with the school curriculum. These lectures were fully illustrated with lantern slides and motion pictures. On account of the large number of requests for reservation of seats, several of these lectures were repeated. The lecture on the Panama Canal was given three times in the spring course, three times in the autumn course, and twice to single schools.

The number of pupils from the public schools who attended the lectures in 1913 was 39,352, an increase of 7,423 over 1912.

Besides our regular course of lectures, several special lectures were given by members of the Museum staff upon the request of schools.

Through the courtesy of the Gaumont Company, Limited, of London, and Robert W. Priest, the lecture on the Antarctic Regions, to the children of Members, on November 1, was illustrated by the remarkable motion pictures of antarctic life taken by Herbert G. Ponting, F.R.G.S., on the last expedition of Captain Scott. This lecture was given at the Museum three times during the autumn: once to the children of Members, once before the American Ornithologists' Union and once in the course to public school children.

Several courses of lectures on various subjects have been given this year, and, as shown by the attendance, they have been much appreciated. They have 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, lectures in conjunction with the American Scenic and Historic Preservation Society, the Jesup course given in coöperation with Columbia University, a course on the Principles of Healthy Living given in connection with the Museum Department of Public Health,

General Lectures

Lectures to School Children



DEPARTMENT OF PUBLIC EDUCATION
BLIND CHILDREN AT THE MUSEUM
Educational Work for the Blind is provided for by the
Jonathan Thorne Memorial Fund

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. Twice a month blind classes in the public schools visit the Museum for a discussion and examination of specimens. Mrs. Vaughan, who has this branch of the work in charge, has shown these pupils mammals, birds and Indian objects. A class from Newark, N. J., and one from the Catholic Institute in the Bronx, have also availed themselves of these privileges. These visits are made during school hours, and are reported as very valuable to the children.

A directory of about 2,000 names and addresses of the blind of New York City and vicinity was secured through the courtesy of the New York Association for the Blind. A letter was sent by the Museum to each of these addresses, and we are using all available means of making our census of the blind complete and accurate.

On December 18, a lecture on the Discovery of the North Pole was given by Rear Admiral Peary. The attendance was 709, of which number about 300 were blind. With the kind assistance of Lorillard Spencer, Jr., Scout Commissioner of Manhattan, and W. B. Holcombe, Scout Commissioner of Brooklyn, arrangements were made with the Boy Scouts from New York, Brooklyn, Staten Island and Jersey City, to act as guides. All the Scouts who volunteered for this service discharged their duties with great credit to themselves, and we desire especially to acknowledge their assistance. The sledge that reached the North Pole, with dog team and Eskimo driver; a kayak; and some of the animals of the Far North, including the Peary Caribou, were placed in Memorial Hall, as a special exhibit, to be examined by the blind guests.

Many teachers have availed themselves of the opportunity of securing the services of an instructor from this department, when studying the exhibits with classes. **Instructors** are also provided for Members of the Museum and their friends when desired.

During the year the Museum photographer has made 7,329 prints, 1,390 slides, 745 negatives, 572 enlargements, and 4 transparencies. These numbers, although very large, give no adequate indication of the great amount of labor involved in accomplishing the results desired.

Reference Photographs and Negatives

Nearly 4,000 negatives were turned over to this department by the Department of Vertebrate Palæontology, and these have been placed in our regular files. Our reference file of photographs now numbers 30,892, and our file of negatives numbers 29,664.

Of the 35,000 lantern slides belonging to the Museum, nearly 9,000 have been filed according to a modification of the Dewey system, thus making them much more accessible to the members of the Museum staff. This file is being completed as rapidly as possible.

GEOLOGY AND EXTINCT INVERTEBRATES

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

EDMUND OTIS HOVEY, Curator

The most important event in the year's history of the department is the completion and presentation to the Museum of the large-scale model of a portion of the property of the Copper Queen Consolidated Mining Company at Bisbee, Arizona, which has been constructed at the Museum through the generosity of James Douglas, one of our Trustees. The mine and its buildings are represented as they were in August-October, 1910. The actual construction of the model was begun in February, 1911, and has occupied the time of A. Briesemeister and from two to five assistants ever since, in addition to the directive and supervisory work of the Curator.

Important Acquisitions

Copper Queen Mine Model



Courtesy of American Press Association

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALAEONTOLOGY

CROCKER LAND EXPEDITION—CHAIRMAN OF COMMITTEES AND STAFF

Upper Row, left to right—Henry Fairfield Osborn, Edmund Otis Hovey, Donald B. MacMillan
Lower Row, left to right—Harrison J. Hunt, Maurice C. Tanquary, W. Elmer Ekblaw, Fitzhugh Green, Jerome Lee Allen

Among other important acquisitions may be mentioned twenty-four meteorites new to the collection, obtained partly through purchase and partly through exchange.

New Meteorites The chief of these is a 16½ pound end piece of the Mungindi iron from Australia; a 6,165 gram piece of the Arispe iron from Mexico; a 3,570 gram piece of the Santa Rosa iron from Colombia, South America; a 3,149 gram piece of the Tocavita iron from Colombia, and a 3,025 gram piece of the Gilgoin aërolite from New South Wales. The most interesting from a scientific point of view is a 760 gram piece of the Saint-Michel, France, aërolite belonging to the rare rodite subdivision of the classification.

The Mohler Collection, the result of twenty-five years of discriminating collecting at Weyers Cave by J. L. Mohler, for many years the principal guide to the cavern, is another important accession. This series includes, besides the ordinary stalactites and stalagmites, a considerable number of glass and crockery vessels that were placed where the dripping waters would coat them with stalagmitic material, and they show the amount of deposition acquired during differing periods of time.

The reorganization of the Crocker Land Expedition, including its scientific staff, was completed during the first half of the year, the Curator serving as Chairman of the Committee in Charge. Acknowledgment should be made of the material assistance rendered by the University of Illinois, through the contribution of \$10,000 toward the funds of the Expedition, which made possible the appointment of a specialist for the zoölogical work. The American Geographical Society added \$3,000 to its previous subscription and individual subscribers increased the amount of their gifts. The expedition is now under the auspices of the American Museum of Natural History, the American Geographical Society and the University of Illinois.

The staff as finally appointed was as follows: Donald B. MacMillan, A.M., leader and ethnologist; Fitzhugh Green, U.S.N., engineer and physicist; W. Elmer Ekblaw, A.M., geologist and botanist; Maurice C. Tanquary, Ph.D., zoölogist; Harrison J. Hunt, M.D., surgeon; Jerome Lee Allen,

wireless operator, and Jonathan C. Small, mechanic and general aid. Edwin S. Brooke, Jr., accompanied the party as official photographer, returning with the ship.

The expedition left New York in the S.S. "Diana," on 2 July, Boston on 5 July, and North Sydney, N. S., on Saturday, 12 July, with full equipment for subsistence for three years and for prosecuting scientific work in geology, zoölogy, geography and meteorology, and investigations in wireless telegraphy. The Strait of Belle Isle, however, contained much ice, and the difficulties of navigation were increased by a dense fog, and at one o'clock on the morning of the seventeenth the ship went aground on the rocks off Barge Point, Labrador. Some of her coal was jettisoned, a large part of the cargo was lightered, then she was pulled off the rocks by the S.S. "Stella Maris" and proceeded under her own steam to Battle Harbor, and finally to St. John's, where her cargo was transferred to the S.S. "Erik," which had been chartered to take her place. On Thursday, 31 July, the "Erik" left St. John's, called at Battle Harbor for the supplies left there after the accident and proceeded to the north, where a landing was finally made at Etah, North Greenland, and permanent headquarters established, it being found to be impracticable to make a landing on the west side of Smith Sound on account of the ice.

In January and February the Curator visited the Isthmus of Panama and the central portion of Costa Rica partly in the interests of the Museum, making collections of rocks, fossils and photographs which have been turned over to the Museum, and collecting other data for a lecture which was delivered in the Museum's Members' Course in March. The Curator, furthermore, was the official delegate of the Museum to the Twelfth International Geological Congress which met in Toronto, Canada, 7-14 August.

In the late summer and early portion of the fall, Prentice B. Hill, assistant in the department, was sent to Grottoes, Virginia, to collect material for the construction of a reproduction of a portion of Weyers Cave. The material was obtained with the permission and assistance of the Grottoes of the Shenandoah Company, through J. M. Pirkey, Superintendent. Furthermore, the Norfolk & Western and Penn-

sylvania Railroad Companies generously transported, free of charge, the material, aggregating 60,000 pounds (with packing), from Grottoes to New York.

After much experimentation and discussion, a plan for the installation of the general collection of the department was

New Exhibitions adopted which follows closely the method devised in the National Museum at Washington some years ago. The shelves are done away with and the specimens are fastened to tablets which rest on metal strips attached to an inclined false back in the upright floor cases. A shelf four inches wide is left at the top of the

New Installation of General Collection sloping back for the purpose of supporting extra large specimens. When these are not available, the upper portion of the case will be used for large photographs, maps and diagrams. The time of Assistant Curator Reeds has been devoted principally to this work.

There was completed during the year the reproduction of a portion of a cave in Queen Hill, near Bisbee, Arizona, which

Copper Queen Cave was broken into during the summer of 1910 in course of prospecting work in the Copper Queen Consolidated Mining Company's grounds.

The exterior of this exhibit is made up for the most part of weathered limestone from the surface of the ground near the cave, and represents a weathered cliff with an opening through which the cave itself may be viewed. This cave and the assembled specimens from the Copper Queen Mine, which have been for several years in the gem collection in the Museum, now form part of the general Copper Queen Mine exhibit, which is the most prominent and attractive feature in the exhibition hall of the department.

Early in the year the six small cases of meteorites were removed from the Foyer and installed at the south end of the exhibition hall of the department, where they

Meteorite Collection may be examined to better advantage and where they constitute an attractive feature for the entrance to the hall. The entire collection of irons was polished and re-etched, greatly improving the appearance of the specimens and tending toward their preservation from rust.

There has been published under the auspices of the department in the *Bulletin* of the Museum an article by Miss Eleanor F. Bliss entitled "Glaucophanes from Eastern Pennsylvania," a portion of the research for which was carried on in the Museum. Miss Bliss has given to the department the series of rocks used in the preparation of her paper.

MINERALS

DEPARTMENT OF MINERALOGY

L. P. GRATACAP, Curator

The collection of minerals has grown during the past year principally by purchases and exchanges, and the indispensable assistance of the Bruce Fund is again gratefully acknowledged. The additions thus made comprise 178 specimens and 165 species, generally possessing a distinctively mineralogical importance.

A few deserve special mention: The superb black velvety and soft bronzy *Cupro-Descloizites* from Bisbee, Arizona; an interesting and selected suite of *Delafossite*, from the same prolific source; a magnificent crystallized mass of *Hopeite* (phosphate of zinc) from South Africa, a surprising illustration of the unsuspected mineral wealth yet to be discovered in this region, with its adjoining territory of Madagascar, already famous for its mineral wonders; a remarkable group of large *Molybdite* crystals from Queensland, Australia; a notable series of *Zeolites* of extreme beauty, from Great Notch, N. J., and a crystallized *Gold* from Baker County, Oregon.

An addition of serious educational value, installed this year in the Morgan Hall (northeast alcove), is the series of wooden models showing, in enlargement, the crystallographic habit of representative minerals. This embraces 580 models, each one described in a printed label, with its faces marked for identification.

Practically all the additions have been exhibited. In this connection it is worth while to call attention to the very valuable uses of the accession case at the entrance of the Morgan Hall.



DEPARTMENT OF MINERALOGY
SHELL COME O OF THE MORGAN GEM COLLECTION

The Curator contemplates the preparation of an illustrated Descriptive Review of the Mineral Localities of the United States.

This report does not reflect the various details of re-arrangement, installment in the hall, correspondence and the entertainment of visitors, of which last the end of the year supplied a large number.

MAMMALS AND BIRDS

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

J. A. ALLEN, Curator

The collections received are quite as important as those of last year, numbering about 1,000 mammals and 9,000 birds.

Acquisitions and Acknowledgments About 200 mammals and 1,100 birds were received by gift, and about 165 mammals and 35 birds by exchange, the rest having been acquired by purchase and through Museum expeditions, the latter including about 400 mammals and about 4,000 birds. The specimens secured by expeditions were all collected in South America, under the direction of Curator Chapman. The most important gifts include a collection of 87 mammals from British East Africa, presented by Paul J. Rainey, and a collection of about 1,100 hummingbirds presented by D. C. Stapleton. We have received as usual many valuable birds and mammals in the flesh from the New York Zoölogical Society and the Department of Parks. The Museum is also indebted to Robert Broom for valuable insectivores and other mammals from South Africa.

Expeditions At last accounts the Congo Expedition, after four years of eminently successful field work, had completed the packing of its large and varied collections for shipment to the Museum.

The explorations in South America under the direction of Curator Chapman have been extended to cover a much wider field than heretofore, and the importance of the results in the immediate future will doubtless be thereby greatly increased. During the early part of the year Dr. Chapman with several

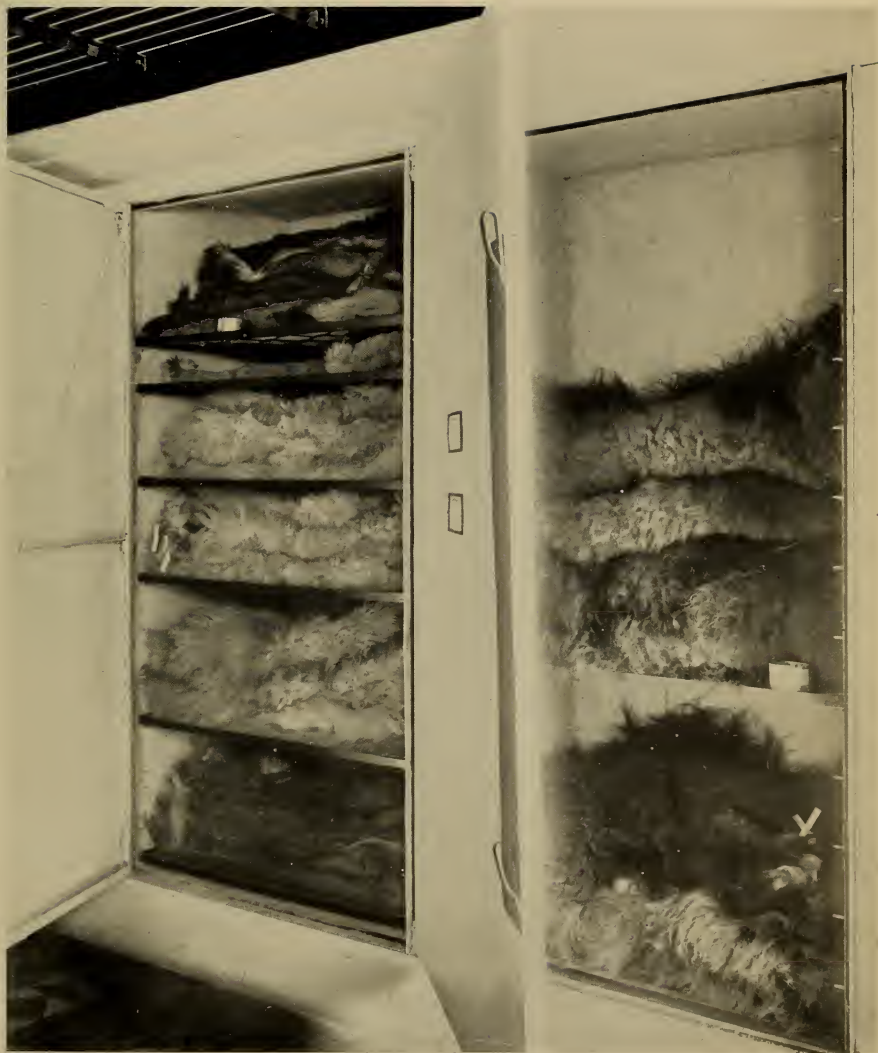
assistants, among whom were George K. Cherrie and Louis A. Fuertes, the latter as the artist of the expedition, spent several months in the exploration of the Eastern Andes, making a biological survey of a section across the Andes from the Magdalena River to the headwaters of the Orinoco drainage southeast of Bogotá, returning with a collection of about 2,000 birds and mammals and the necessary studies and accessories for a group illustrative of the bird life of the region.

Field work was continued by Leo E. Miller in northeastern Venezuela and in British Guiana. An attempt to reach the unexplored Mount Duida, on the upper Orinoco, proved unsuccessful owing to the inaccessible character of the country and the severe illness of his associate on the expedition, F. X. Iglseder. William B. Richardson has continued his explorations in Ecuador, from the arid coast region to the alpine zone of Mounts Chimborazo and Pichincha. His collections number nearly 2,000 specimens, and include accessories and specimens for a group representing the bird life of the upper life zone of Mount Pichincha.

Through the kind invitation of Theodore Roosevelt, the Museum has been able to send two of our expert collectors, Messrs. Miller and Cherrie, to Paraguay, where they have been successfully collecting for some weeks and are about to start north through little-known parts of the interior of Brazil, as attachés of Colonel Roosevelt's South American Expedition. The Museum's expenses in connection with this expedition have been met by the generosity of Cleveland H. Dodge.

The past summer Assistant Curator Andrews accepted the invitation of John Borden of Chicago to accompany him on his yacht on an expedition to Bering Sea to obtain a skeleton of the Bowhead Whale, but unfavorable ice conditions rendered it impossible to reach the whaling grounds. Motion picture films illustrating seal life on the Pribilof Islands, however, were obtained, and several caribou and other large game specimens were secured in Alaska.

Robert C. Murphy, who was in charge of the Museum's expedition to South Georgia, organized in coöperation with



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY
NEW FIREPROOF STORAGE CASES FOR MAMMAL SPECIMENS

the Brooklyn Institute of Arts and Sciences and through the generosity of Arthur Curtiss James, returned in May, having been gone one year. In spite of unfavorable conditions, Mr. Murphy secured a representative collection of the birds and mammals of those subarctic islands and took more than 400 photographs.

The Brewster-Sanford expedition to South America under the charge of Rollo H. Beck, began work in the vicinity of Lima, Peru, early in the year. From this point as a base, collections were made at Lake Junin, on the summit of the Andes, and on the waters of the Pacific well off-shore; subsequently Lake Titicaca was visited. The collections already received number 1,500 specimens and a second shipment is *en route*. These birds are deposited in the Brewster-Sanford collection in the Museum, where they are accessible for investigation. Almost all this material is new to the Museum, and has proved to be of much practical and scientific value.

The private collection of Jonathan Dwight, Jr., deposited in the Museum some years ago, has been enriched during the year by important specimens of birds from China. Dr. Dwight's collection, which is available for study, now numbers more than 10,000 specimens.

Owing to the necessity of taking the hall in the East Wing set apart for Boreal Mammals as a temporary workroom for the preparation of the Elephant Group and other African mammal exhibits, the **Installations and New Exhibits** Muskox, Caribou, Wild Boar, Polar Bear and Atlantic Walrus Groups have been temporarily installed in the North American Mammal Hall, in which have also been placed the new Porcupine, Rabbit, Flying Squirrel, Red Squirrel and Chipmunk Groups. The separately mounted specimens of Stone Sheep and Mountain Goat have been combined in groups. The Alaska Moose has been placed in a separate case and forms an imposing exhibit at the entrance to the hall. These changes have greatly improved the appearance of the North American Mammal Hall, for which further improvements have been planned.

The central mammal hall has been greatly changed by the temporary installation within it of the reptile and amphibian

groups, formerly in the East Wing, where they now await the preparation of permanent quarters. Other changes include the assembling of all the African mammals in the African Hall, and the removal from the gallery of the East Wing of the mounted mammals formerly on exhibition there, to make room for the early completion of the systematic collection of mammals.

Installation work in progress comprises the remounting of the Pacific Walrus, and the preparation of a Colobus Monkey Group and a Fruit Bat Group, all now nearly completed.

During the past year the research collection of mammal skins has been revised, poisoned, and rearranged as additional storage facilities have become available. Also considerable progress has been made with the rearrangement and storage of the osteological material, for which more convenient quarters have become available.

During the last five years the additions to the Cetacean collection have made it one of the most complete in the world.

Cetacean Material Of the larger types of whales the Bowhead and Humpback are the only prominent desiderata, a fine skeleton of the latter having unfortunately been destroyed by fire at an establishment to which it had been sent for preparation. The California Gray Whale skeleton, secured last year in Korea, and the first skeleton of this species received by any American museum, proves to be an especially interesting type, it being the most primitive of the existing baleen whales. A memoir on this species has already been completed by Assistant Curator Andrews, and other monographs by him upon the Pacific Cetacea are in preparation.

Other research work accomplished during the year or in progress is based mainly on the recent accessions of birds and mammals from South America. Curator Chapman has been engaged for the past six months,

Research Work and will be occupied for much time in the future, in working out the large collections of birds, his report on which will comprise not only a critical revision of the species, with descriptions of many new forms, but a study of their



DEPARTMENT OF VERTEBRATE PALAEONTOLOGY
THE ASPHALT GROUP

This new group shows the Sabre-tooth Tiger at the left, Extinct Wolf at the right and Ground Sloths in the foreground

phylogeny and relation to their environment and the life zones. The Curator has already prepared and published several papers on the mammals of Colombia, a full report on which is about half completed. As part of this work several groups are being treated monographically in special papers.

During the year a paper by H. E. Anthony has been published on the mammals of northern Malheur County, Oregon; a paper by Dr. Elliot on new monkeys from Colombia; a paper on the mammals of Korea by the Curator and Assistant Curator Andrews, based on the latter's collection secured last year; two papers describing new South American mammals, and a revision of the murid genus *Melanomys*, by the Curator. These articles have all appeared in the *Bulletin*. A paper on the Muskox by the Curator, appeared early in the year in the *Memoirs*, and Mr. Andrews's paper on the California Gray Whale (*Rhachianectes*) is now in press in the *Memoirs*.

EXTINCT VERTEBRATES

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

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

The Department of Vertebrate Palæontology records another season of unusually successful field work. Four expeditions were sent out, to the Cretaceous formations of Alberta, the Eocene of New Mexico and Wyoming, and the Miocene of Nebraska. Nine skulls and three mountable skeletons of dinosaurs, two skeletons and several skulls of the very rare Palæocene mammals, and two complete skeletons of the gigantic "Clawed Ungulate" *Moropus*, are among the prizes secured.

A valuable collection of Tertiary fossils of India has been secured, through exchange, from the Geological Survey of India. Through exchange with the University of California the Museum will shortly receive a splendid series of skulls and skeletons of the extinct animals

from the asphalt beds of Rancho-la-Brea. Part of this collection has already been selected and forwarded to us.

Several additions and alterations in the exhibition hall may be noted. The "Asphalt Group," illustrating the extraordinary deposit of bones of extinct animals near Los Angeles, has been placed on exhibition and attracts much interest. A Glyptodont Group, with three of these gigantic "Tortoise-armadillos," has been placed at one side of the Ground Sloth Group, a skeleton of the Scelidothera or Long-headed Ground Sloth, at the other side. The living and extinct horse skeletons have been rearranged, and a panel completed to show the Distribution of the Rhinoceroses. A new Duck-billed Dinosaur skeleton *Saurolophus* has been added to the series in Dinosaur Hall, two large skeletons have been temporarily laid out near it, and a number of smaller installations completed.

Lack of space prevents for the present an adequate exhibit of the unequalled series of Cretaceous dinosaurs which the Museum now possesses. It has been necessary to withdraw a number of important exhibits to make room for those recently added.

The distinguished South African palæontologist, Robert Broom, accepted a temporary position on the Museum staff, and devoted the last six months of the year to researches upon the ancient Permian reptiles of South Africa and the United States. F. von Huene of Tübingen and W. J. Sinclair of Princeton have also contributed valuable researches upon American Museum material.

Investigations by Professor Osborn upon Titanotheres and upon the *Bathyopsis* and *Eomoropus*; by Dr. Matthew and Mr. Granger upon Lower Eocene mammals, and by Dr. Gregory upon Eocene primates, are completed or in progress. The published results of these researches appear in sixteen articles in current volumes of the *Bulletin*. This completes Volume IV of the collected series of papers on Fossil Vertebrates. A

number of more popular articles or notices appear in the *Museum Journal*. A new edition of the guide to the Evolution of the Horse has been published, and a Dinosaur *Handbook* is under way.

To the new edition of the "Evolution of the Horse" guide has been added a section by S. H. Chubb, treating of

Osteology of Existing Horses the origin of the domesticated breeds of the horse and the development of the teeth. Mr. Chubb has also continued preparation work upon the osteology of the existing species, wild and domesticated, and made a number of valuable additions to the exhibition and study collections.

Charles R. Knight has completed a number of sketch restorations of extinct mammals and prepared the preliminary sketches for mural paintings to illustrate the Pleistocene life of different continents, and the environment of the Titanotheres.

RECENT AND EXTINCT FISHES, EXISTING REPTILES AND BATRACHIANS

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

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

During the past year the department was enabled, through the generosity of Cleveland H. Dodge, to add to its collections a number of valuable specimens. Especially noteworthy are five examples of the Australian Lungfish, a fish found in certain parts of eastern Australia and said to be threatened with extinction owing to the inroads of civilization; a magnificent specimen of a fossil fish, *Lepidotus*, from the lithographic shales of Bavaria; a valuable collection of fossil armored fishes, or Arthrodira, from the Devonian of Ohio, and eight remarkable embryological preparations made in Prague, Bohemia.

We are also indebted, as in previous years, to the New York Zoölogical Society for the gift of a large number of

fishes, amphibians and reptiles through the New York Aquarium and the Zoölogical Park.

In general matters affecting this department, it should be recorded that during the year Professor Dean, owing to his frequent absences abroad, asked to be relieved of the active direction of the department, and was accordingly given the rank of Curator Emeritus, in June. Since this time Louis Hussakof has been in charge of the general administration of the department. Miss Mary C. Dickerson, Assistant Curator of Herpetology, was promoted in April last to Associate Curator of Herpetology.

Great progress was made during the year in extending the exhibit of fishes. Three habitat groups, representing the **Fishes** ganoid fishes of North America, were completed and opened to the public. One of them represents the nesting habits of the Bowfin, a remarkable fish belonging to an ancient family now everywhere extinct except in North America. The group shows the fishes on a nest, a male standing guard over the eggs in a nest, and another guiding and protecting the newly hatched young. The second group represents the Shovel-nosed Sturgeon, a small sturgeon with a peculiar, flattened snout, whence its name, found in the Mississippi valley and neighboring regions. The two or three known allied species are confined to central Asia. The third group illustrates the spawning habits of the Long-nosed Gar Pike, a species found in most of our streams east of the Rocky Mountains. It may also be mentioned that a fourth group, representing the fishes of the profound depths of the sea, has been in preparation for some time and is almost completed.

These groups, representing, as they do, fishes in the water, have raised a number of difficult technical problems not brought up by groups of birds or mammals, in which the animals are represented in the open air and in broad daylight. These problems happily have been solved, and will afford valuable precedents for future work of the same kind.

The synoptic series of fishes—that is, the series containing examples of the various families—was increased by the addition of 33 fishes, mounted, with a few exceptions, by the Museum taxidermists.



DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY
LOWER CALIFORNIA GROUP
Reptile Life in the Desert

In regard to research and publication, the most important work the department has in hand is the preparation of an extensive bibliography relating to fishes and fisheries, under the direction of Curator Dean. This work takes stock of all that has been published in this field, and when completed will be invaluable to all students of fishes. It will help to do away with a good deal of the repetition of earlier investigations, which, without such a reference work, is inevitable. It is hoped that the volume in preparation will be ready for press in the early summer of 1914.

In addition to this, the officers of the department have continued the study of the anatomy, evolution and systematique of various groups of living and extinct fishes. Several bulletins dealing with these subjects were sent to press during the year, and a number of other, more extended, studies along these lines are now nearing completion.

Greater progress than in previous years has been made along two lines, namely, exhibition work and study collection.

Existing Reptiles and Batrachians Notable in the former are two new "life study" groups: one, the Lower California Group, taking its place on exhibition in December; the second, the Toad Group, nearing completion. The Toad Group represents several years of field study on the part of the Associate Curator before entrance on the staff of the American Museum; the Lower California Group stands for field work by the "Albatross" expedition under Charles H. Townsend, made possible by the courtesy of the Department of Commerce and Labor at Washington and the generosity of Arthur Curtiss James.

The California Group, with its lizards and snakes fitted to endure existence in the desert and showing the brilliant hot sunshine, sand, cacti and volcanic rock of a Lower California island, is in striking contrast with the other groups which represent aquatic animals and moist situations in temperate North America. The background of this group is by Hobart Nichols of the National Academy. In the construction of these groups new problems of technique have been encountered and successfully solved.

One large item of the work of the year has been the removal of the reptile exhibit including the *Cryptobranchus* and Bull Frog Groups from the tower in the East Wing on the second floor to the central hall on the same floor. These two groups with the Lower California and Toad Groups fill the new gallery constructed for them, with the exception of a corner space which it is hoped may be filled with a Florida Group. Such a group can be made to emphasize turtles and snakes, and thus round out North American reptiles synoptically, while it can also show many other species because of the large and interesting reptile and amphibian fauna of Florida.

Work on models, casts and mounted specimens, all studied and colored from life, has continued for the synoptic series, considerable material having been obtained from the New York Aquarium and the New York Zoölogical Park through the courtesy of the New York Zoölogical Society. Notable among the models and casts are the enlarged study of the bullfrog mouth to make clear structures connected with eating, breathing and croaking, and a cast of *Necturus* made by the new oil method; and among the mounted skins, three specimens of Clark's Swift are worthy of mention. Four skeletons have been added to the synoptic series.

The new fireproof herpetology storeroom in the basement of the building furnished after the manner of the new storeroom of the National Museum was ready for occupancy soon after the beginning of the year, and an important work of the department has been to get the study collection in place on the shelves in this storeroom arranged according to systematic classification and adequately relabeled in part. The specimens are being renumbered with block tin tags so that each will bear its individual number. A permanent reference catalogue has been prepared for the complete collection and there has been put into working order also a catalogue of new species and genera. This work on the study collection has been done by Miss S. R. Clemence, assistant in the department.



DEPARTMENT OF INVERTEBRATE ZOOLOGY
A DETAIL OF THE WHARF PILE GROUP

Several important exchanges are in progress. Those completed in 1913 and of especial interest have been with T. Kimura, Formosa; the Queensland Museum, Brisbane; California Academy of Sciences, and the Museum of Comparative Zoölogy, Cambridge, Mass.

Notable among gifts is a small collection of Australian and South African reptiles and amphibians from Robert Broom.

EXISTING INVERTEBRATES

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

HENRY EDWARD CRAMPTON, Curator

In pursuance of the general aims of the field work in this department, two expeditions were made during the year to localities of significance for the study of distribution and evolution. Dr. Lutz and Mr. Leng spent several weeks in Cuba, thus extending the study of geographical distribution to another large element of the West Indies. Mr. Miner and H. Müller devoted four weeks to the collection and study of the marine forms of Passamaquoddy Bay and its vicinity. Earlier in the summer, Mr. Miner and Mr. Shimotori revisited Nahant to obtain additional data for use in constructing the Tide Pool Group.

Mr. Mutchler has been appointed a scientific assistant.

The expedition to Passamaquoddy Bay secured about 2,000 specimens of marine life, many of which were new to our collections. It is a pleasure to acknowledge the material assistance rendered to Mr. Miner by the officers of the biological station of St. Andrews, N. B., supported by the Canadian Government.

The Wharf Pile Group was completed and placed on exhibition in the Darwin Hall early in the year; this marks the acme of museum demonstration in the case of invertebrate animals, and greatly strengthens the series of marine ecological groups. Numerous items have been added to the synoptic series on display, ten of which are protozoans and four bryozoans; in addition a long series of poriferan types is

well toward completion. The larger groups under construction have been advanced, the Tide Pool Group is at least half completed, much has been done on the marine bryozoan group, the elaborate *Physalia* model needs little further work, and the Tahitian model is colored and lacks only the casing and the shell types for the several valleys. As in past years much work has been done for other departments, especially that of Public Health, for which four elaborate models illustrating the life of the fly and one of a flea have been constructed.

The study collections have been amplified and improved in many ways. The "Albatross" material of Dr. Townsend's expedition has yielded about 100 identified echinoderms, and about 50 identified annulates. Professor Treadwell has sent other valuable annulate specimens, some of which are from his own collection. By exchange we have secured from Professor Fauvel a notable and named series of the annulates of France. From the Durban Museum, Natal, South Africa, Crustacea and valuable *Onychophora* have been obtained by exchange. The jars of the entire collection have been gone over and have been refilled when necessary.

Mr. Miner has continued his studies on North American and West Indian myriapods, and has published in the *Journal Research* a short article on the Wharf Pile Group. Professor Crampton's investigations on Polynesian gasteropods and their evolution have been advanced, and the first volume of some 500 quarto pages is soon to be published.

The special acknowledgments of the department are due to C. T. Ramsden of Guantanamo, Cuba, for material assistance rendered to Dr. Lutz and for numerous specimens donated to the Museum. We are also indebted to Carlos de la Torre, of the Havana Museum, for many courtesies extended to Dr. Lutz and Mr. Leng, not the least of which was the privilege of studying and copying the notable lists of Gundlach, whose records are of primary importance to students of the West Indian fauna. The results of the expedition to Cuba made by Dr. Lutz and Mr. Leng amount to more than 10,000 specimens, collected with full ecological data and with a view to

the comparison of Cuba with Florida and other land regions in faunal respects. Local field work has been carried forward, as always, with the cordial assistance of the members of the New York Entomological Society.

Three new insect groups have been installed in the exhibition hall, illustrating the homes and habits of certain Hymenoptera. Among other items, extensive and well-prepared exhibits of heredity in insects have also been placed on view. Meanwhile the vast study collections have received due attention. Dr. Lutz has devoted his energies to the Hymenoptera particularly; Mr. Grossbeck has made marked progress in the arrangement of the Lepidoptera; Mr. Mutchler has devoted himself to the Coleoptera and Diptera.

The researches in this division have been carried forward with very satisfactory results. To the lists of "Insects of Florida" have been added other and more comprehensive catalogues, which include forms from Cuba and other places. Mr. Leng has virtually completed a list of the beetles of the West Indies, utilizing to the full the papers of Gundlach mentioned above. Mr. Grossbeck has dealt expressly with the Lepidoptera of Florida. Mr. Mutchler has made notable studies on the Cerambycidae, describing new species and amplifying our knowledge of specific distribution. At this juncture, it may be stated that arrangements have been made with William Barnes for the utilization of the extensive work done by Mr. Beutenmueller on the genus *Catocala*, in the preparation by Dr. Barnes of a monograph on that group.

Curator Gratacap reports upon the Mollusca as follows: Two additions to the collections are of particular and dominant interest. The first is the gift from Carlos de **Mollusks** la Torre, of the University of Havana, of 655 specimens representing 139 species of the land shells of Cuba; this collection possesses great intrinsic value on account of the donor's reputation and high authority and also because it includes many cotypes of species described by Dr. de la Torre himself. The second addition, obtained by purchase from A. Da Costa Gomez, is a collection of abnormal, deformed and injured shells. The series is not large, but it comprises much of peculiar interest and some specimens that are unique.

Through the coincidence of the removal of the entire shell collection to another hall, the provision of cases hitherto unused for shell exhibits and the long delay experienced in preparing the hall for occupancy, the installment of the shells involves practically a new exhibition. The Gabay Collection of Ornamental Shells showing their uses has been installed, as well as the Gomez Collection of Abnormalities mentioned above. Certain picture labels have been placed on the walls and others are projected.

The contemplated "Illustrated and Descriptive List of East Coast Shells" has reached huge proportions.

EXISTING AND EXTINCT RACES OF MEN

DEPARTMENT OF ANTHROPOLOGY

CLARK WISSLER, Curator

The general rearrangement of the exhibition halls of the department, begun in the fall of 1910, was continued through the year. In the North American Archæological **Exhibition** Hall additional wall cases which had been provided made possible a general rearrangement of exhibits. The tower is now occupied by specimens representing the palæolithic and neolithic periods of Europe. The Bronze and Iron Ages are provided for in cases in the main hall near the tower entrance. In an upright case near this entrance is a comparative exhibit of types of man, ancient and modern. The remainder of the hall is given over to a general archæological exhibit from North America arranged geographically. Many additional specimens are stored in the bottoms of the cases but are readily available for comparison with those on exhibition.

The halls on the first floor devoted to North American ethnology have received minor attention and are now as complete as the lack of proper casing will permit. An especially fine and complete collection from the Blackfoot cannot be placed on exhibition until cases can be built for the tower. The Arapaho figures of dancers are stored, awaiting a case of sufficient size to accommodate them. A selected California

exhibit has been arranged temporarily in an alcove room opening into the Southwest Indian Hall. Until additional halls can be assigned to the department, the Mackenzie River Area, the Plateau Area and California must be inadequately represented by small exhibits in halls devoted to other regions.

The Chinese bronzes and pottery, among the Museum's choicest collections, have been arranged under the oversight of the Director in special cases in the tower of the Asiatic Hall. Dr. Laufer, who made this collection for the Museum, through the generosity of Jacob H. Schiff and other members of the East Asiatic Committee, is preparing a *Handbook* descriptive of Chinese culture as illustrated by our collection.

Additional material has been installed in the African Hall. It does not seem wise, however, to make a permanent arrangement of this hall until the return of the Congo Expedition, in order that provision may be made for the material and groups which may result from it.

Considerable progress has been made in labeling the exhibits. A large number of labels have been written and hand-lettered label boards have been mounted on the cases in several of the halls.

The larger number of our halls in their sequence and general arrangement conform to the plan adopted for the permanent position of these halls in the completed building. It is hoped, therefore, that there will be no need of disturbing them for many years. To make these halls more attractive and instructive, especially for the casual visitor, maps, pictures, mural decorations and groups are gradually being provided. During the year Mr. Ichikawa has prepared a large map of North America showing linguistic distribution and a similar map showing the distribution of the tribes in the Mackenzie Area. These have been hung in the Eastern Woodlands Hall. Mr. Ichikawa has also prepared a large map of the Plains Area and a number of small maps for incorporation in the general tribal labels. A fine series of enlarged photographs showing types of Indians and their ways of living has been hung in the Southwest Indian Hall as a supplement to the collections. Mr. Operti has made illustrative paintings

of the Bushmen for the African Hall and of the Maori of New Zealand for the South Sea Islands Hall. Will S. Taylor, who has been engaged for some years upon the mural decoration of the Northwest Coast Hall, has continued his work. Besides the six panels now on the walls, two more are ready for hanging and two will be completed in June, when there will remain to be undertaken two small panels and a large panel for the southern end of the hall. Edwin W. Deming has prepared studies for eight large panels intended to illustrate the life of the Indians of the Plains. When funds are secured for the execution of this work, the hall will be rendered much more impressive and instructive.

Archer M. Huntington has continued to support ethnological and archæological work in the Southwest which this year was continued by Herbert J. Spinden among the Tewa Indians of New Mexico and by **Southwest** N. C. Nelson who was able to complete his **Indians** survey of the ancient villages in the Galisteo valley. This work in the Southwest has been planned to coördinate the ethnological and archæological work, by examination of the sites of villages occupied in Spanish times, before taking up the prehistoric ruins.

A full-sized Navajo house has been assembled and installed in the large alcove room of the Southwest Hall where it is hoped a group may some time be constructed. An arrangement was completed early in the year for the painting of a background for the life-sized Hopi Group. Howard McCormick, who was engaged to do the work, has the canvas well under way. The walls of one of the alcove rooms have been prepared for its reception and it is intended to undertake the necessary construction work and the modeling of the figures during the coming year.

A special exhibition of photographs and paintings of Southwestern Indians and their surroundings was held from February 26th to March 16th, 1913. The paintings were loaned by prominent artists who have recently been studying in the Southwest. Especial interest was shown in the work of Louis Akin loaned by his friends. Mr. Akin, who had been commissioned to make sketches and studies for



DEPARTMENT OF ANTHROPOLOGY
A GROUP SHOWING NAVAJO HOME LIFE AND INDUSTRIES

mural decorations for the Southwest Hall, died while engaged in that work. Forty enlarged photographs loaned by Karl Moon and seventy-five plates from the work of Edward S. Curtis were also exhibited. Many blankets and pottery vessels were displayed during the exhibition, presenting almost the entire reserve collections of the Museum.

During the year all but three of the sixteen new storerooms have been completed, and all these, both complete and incomplete, have been filled with ethnological specimens. The old rooms on the sixth floor of the new wing have all been rearranged. This work, which has been under the supervision of Mr. Sabine, has consumed many months of his time and that of the other assistants. With the exception of the material which is still stored in wooden cases for lack of space in these two series of storerooms, our ethnological collections are fully classified and readily accessible. We feel that those provided for in the new storerooms are as safe from harm as it is possible to make them. They are protected from fire, insects, dust, sunlight, and to a considerable degree from moisture. Since many of these ethnological specimens could never be replaced, it is one of the most important duties of the Museum to preserve them for future generations. It should be noted, however, that a portion of our study collections is still in temporary boxes and that there is very little room available for incoming collections.

The number of specimens added to our collections is much smaller than for any year since the department reached its present proportions. This has been largely due to the lack of funds for the purchase of collections.

Through the generosity of J. P. Morgan, it was possible to purchase a large and important archæological collection from Tennessee made by Charles E. Mason. Two Osage war bundles were secured by purchase. These are the most valuable single specimens to be expected from that tribe and were especially welcome since our Osage collection consisted of but a few unimportant pieces. The opportunity of buying collections from the Micmac and Malecite Indians of New Brunswick and

Nova Scotia was not neglected. Various small purchases and gifts have enriched our collections from nearly every part of the world. Very many scientifically valuable specimens are undoubtedly in the homes of our friends and patrons. These would be much safer and more generally useful if they were in our collections.

Through the Jesup Endowment Fund, five coördinated expeditions were made by the Department of Anthropology, continuing the systematic study of the Indians of the
Research Plains which has been in progress for some years.

The field research accomplished by these expeditions was highly satisfactory. The Curator visited the Pawnee in Oklahoma for conference with James R. Murie, an educated Pawnee of influence in his tribe. Under the Curator's direction, Mr. Murie is writing for the Museum an account of the Pawnee societies. This is a much needed and valuable contribution to the study of such societies which has been receiving the attention of the department during the year. Robert H. Lowie visited the Crow Indians of Montana and the Hidatsa and Mandan of North Dakota where additional information was secured concerning social organization and mythology. Pliny E. Goddard visited the Beaver Indians on and north of Peace River, Alberta, to determine whether their cultural relationship was with the Plains Indians or with the allied tribes of the North. Needed linguistic and mythological information was secured. Herbert J. Spinden spent several months among the Rio Grande peoples in New Mexico, continuing his studies undertaken in former years into the religious and social life of the Pueblo Indians. Alanson Skinner visited the western Ojibway and Cree of Manitoba and Saskatchewan to determine their cultural affiliations. On his return he stopped among the Menomini of Wisconsin and was successful in securing an account of the Midéwin, the most important religious ceremony of that and neighboring tribes. Gilbert L. Wilson continued his work of former years among the Hidatsa. He secured much needed information on agriculture and zoo-culture, two very important but generally neglected subjects. J. R. Walker has continued to contribute information concerning the Sun Dance and other

religious ceremonies of the Dakota. The Museum is under obligations to these two volunteer workers who for a number of years have contributed much important information.

Mr. Nelson, who has charge of the prehistoric archæology of Europe, visited more than fifty important sites of archæological interest in Europe and observed and shared in the excavation of the cave of Puente Viesgo in Spain. His chief object was the study of collections, sites and methods of investigation, preparatory to the development of our growing palæolithic exhibit. Drawings and other data were obtained for the construction of a model of a cavern, for which the Museum is indebted to Professors Marcellin Boule and Hugo Obermaier of Paris. It is only in the Old World that stratified remains of man and his implements enable us to trace with certainty his origin back to glacial times. The expenses of this trip were provided for by the Director's Fund.

During the year three contributions have been published in the volume of the *Anthropological Papers* set aside for the treatment of the societies and military organizations of the Plains Indians. The Curator contributed "Societies and Dance Associations of the Black-foot Indians"; Dr. Lowie contributed "Dance Associations of the Eastern Dakota" and "Societies of the Crow, Hidatsa and Mandan Indians." The "Social Life and Ceremonial Bundles of the Menomini Indians," by Mr. Skinner, has also been issued. The second number of the *Handbook* series, "Indians of the Southwest," by Dr. Goddard, was issued in February, in time for the Southwest exhibition. Dr. Spinden prepared a *Handbook* on Mexico and Central America, which has been awaiting publication since early in the year.

ANATOMY AND PHYSIOLOGY

DEPARTMENT OF ANATOMY AND PHYSIOLOGY

RALPH W. TOWER, Curator

The work in the department has varied but little from that described in the reports of previous years. The routine of

cleaning, numbering and arranging the osteological material received from the different sources has been varied by no unusual circumstance. Much of the material prepared has been specimens of large types, including one each of a Killer Whale and Gray Whale. The total preparation has been 120 skeletons and 491 skulls. Much time has been given to assisting the Department of Mammalogy, and Mr. Elwyn has mounted 8 skeletons and 9 skulls for the Department of Herpetology.

It is with much satisfaction that we can report a complete renovation of the macerating room. A window has been cut through the east wall, an electric ventilator has been placed in the ceiling, a new lighting system has been installed and the old wooden floor has been replaced by one of cement; the equipment is now all that could be desired, with the possible exception of the degreasing apparatus.

PUBLIC HEALTH

DEPARTMENT OF PUBLIC HEALTH

CHARLES-EDWARD AMORY WINSLOW, Curator

The most notable exhibit installed in the Hall of Public Health during the year is a model of the House-fly, with its egg, larva and pupa, prepared by Ignaz Mat-
New Exhibitions tausch, in the Department of Preparation. The models, which are enlarged forty diameters, took nearly a year to prepare, and are remarkably accurate and beautiful. The completion of this work was made possible by special gifts from Walter B. James. There has also been prepared for the hall an original drawing of the Stable-fly, *Stomoxys calcitrans*, the carrier of infant paralysis, and a diagram illustrating the relative size of the typhoid bacillus and the fly's foot.

A model of a corner of a rat-infested house in California, and a series of models illustrating various conditions which favor the spread of insect-borne disease, were also completed during the year. The latter include an ill-kept farm, with undrained marshland and filth breeding insects, and the same



DEPARTMENT OF PUBLIC HEALTH
A MODEL OF THE HOUSE-FLY

farm put in order; a house, barn and chicken yard, rat-proofed, as a safeguard against bubonic plague; a doctor armed with gown, leggings and respirator, against the plague; and model privy vaults of two approved types, for controlling the spread of excretal disease. A new model has been placed in the water-supply exhibit to indicate the financial gain from purifying water, and to the exhibit of insect-borne diseases have been added a model showing the relative fatality from bullets and typhoid fever in the Spanish War, a series of specimens of the three common species of rat, and two fly-traps presented by E. K. Dunham. A map showing the incidence of malaria in the vicinity of marshlands, a model of a pier protected against plague by rat guards, a series of photographs and maps illustrating the history of bubonic plague, and a window frame of insect carriers of disease mounted under magnifying glasses have been prepared and are nearly ready to install. An enlarged model of the Flea, one hundred and twenty times natural size, is being constructed by Mr. Matausch, which promises to be even more striking than the House-fly. The completion of the section of our exhibit dealing with insect-borne diseases will take another year at least.

The completion of the Fly model and of some of the other exhibits dealing with insect-borne disease was made the occasion for a formal opening of the new Hall of Public Health. In view of the fact that the movement for a spring cleaning of the City inaugurated by Health Commissioner Lederle was largely based upon the danger to health from insect carriers of disease, it was felt that our exhibition might be made of assistance in this important public work. The friends of the Museum, therefore, on the evening of Wednesday, April 16, were invited to take part in a public meeting in the interest of the campaign for civic cleanliness, instituted by the New York City Department of Health, as well as to assist at the opening of the Hall of Public Health. President Osborn presided at the meeting, and addresses were made by Commissioner Lederle, Mrs. Edward R. Hewitt, President of the Woman's Municipal League, and Curator Winslow.

The activities of our museum and distributing center of living bacteria have grown very rapidly during the year, partly perhaps as a result of the fact that the **Bacteriological Society of American Bacteriologists** met at the **Museum** in January and the members had an opportunity to see at first hand what the Museum is in a position to do for them. The laboratory has now 634 different strains under cultivation, representing 410 named types. Up to December 1, 1911, we had distributed 571 cultures, and between December 1, 1911, and December 1, 1912, 1,072 cultures. During the past year (December 1, 1912, to December 1, 1913) we sent out 2,886 cultures. Two hundred and twenty-two different institutions in America and Europe have availed themselves of the unique facilities of our collection. The present demands are such as to tax severely the resources of our laboratory and have been met only by the zeal and devotion which Mr. Kligler, who has entire charge of the collection, has given to his task. In addition to the routine work of the laboratory, he has under way a comparative study of the colon-typhoid group of bacteria and an investigation of the chemistry of certain bacterial pigments.

A course of special lectures to members, on the Principles of Healthy Living, was given during the autumn under the auspices of the department, in which **Public Lectures** Walter B. James (Trustee of the Museum and Professor of Clinical Medicine at the College of Physicians and Surgeons) spoke on "The Body and Its Surroundings," H. C. Sherman, of Columbia University, spoke on "Food," T. A. Storey, of the College of the City of New York, on "Exercise and Rest," F. S. Lee, of Columbia University, on "Fresh Air," and Curator Winslow on "The Control of Germ Diseases in the Household."

Curator Winslow attended the Fourth International Congress on School Hygiene at Buffalo, in August, as a delegate from the Museum, and described the **Outside Activities** work which has been done by the department to further health education in the public schools. The three albums of photographs and charts which have been prepared for this purpose were exhibited at Buffalo, and

stimulated wide interest in this form of graphic instruction. Curator Winslow with Charles Baskerville of the College of the City of New York made during the summer a report upon an investigation of air conditions in the New York schools, conducted for the Committee on School Inquiry of the Board of Estimate and Apportionment, which constitutes perhaps the most elaborate study of school-room air yet undertaken. Curator Winslow has also been appointed Chairman of the New York State Commission on Ventilation, an unpaid expert commission appointed by the Governor to direct the expenditure of a sum of \$50,000 given for research on this important subject to the Association for Improving the Condition of the Poor, by Mrs. Elizabeth Milbank Anderson.

During the summer the department was able to cooperate with the New York Association for Improving the Condition of the Poor in its study of fly-borne disease and fly-prevention in this city.

John H. O'Neill, for three years assistant in the department, resigned in January to become Sanitary Engineer to the State Department of Health of Louisiana, and his place has been taken by David Greenberg, S.B., who has had immediate charge of the preparation and installation of exhibition material and has carried the work forward with ability and enthusiasm.

Israel J. Kligler was appointed Assistant in the Department on April 1, and has the bacterial collections under his immediate care.

WOODS AND FORESTRY

DEPARTMENT OF WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, Curator

The rearrangement of trees in the cases in the Forestry Hall has been completed, so that the whole collection is again open to the public, also some one hundred and fifty of the descriptive labels of those remaining to be written have been prepared. The work has continued on the preparation of the leaf, flower and fruit sprays to

Exhibition

accompany the trunk sections of North American trees and to coöperate with the Sargent drawings, which also have been increased in number during the year, in giving full detailed facts regarding structure.

The order for the mural decoration planned for the east end of the hall has not been given to the artist and there has been made no beginning on the proposed models for the alcoves to show the effects of forest fires, of denudation of watersheds and other questions on which the Museum is in a position to do such large educational work—in both instances because of lack of a necessary fund.

Work on the study collection of woods has made considerable progress, and as usual much information regarding woods and trees has been given to lumber dealers, architects and owners of estates. There are probably few departments in the Museum to which more inquiries are addressed by the public and to the offices of which more people come than to the Department of Woods and Forestry. This is doubtless due to the fact that more people come into intimate and frequent contact with woods and with trees than with other objects of natural history, and also because there is no source in New York City outside the American Museum for such practical information, especially for the identification of the different species of wood. The equipment has been somewhat increased to add to the efficiency along this line of work, which has been in the hands of Herman de Fremery, Assistant. Some books have been ordered, and three hundred microscopic wood sections purchased, as well as a dissecting microscope and other necessary apparatus.

The study collection adequately labeled and catalogued consists at present of these three hundred microscope slides, of three hundred and fifty-four Hough's wood sections and two hundred and seventy-six hand wood specimens. In connection with the study collection and to add to the Museum's usefulness to its patrons, there has been made a reference catalogue of consulting foresters, forest nurseries and forest schools. Much information has been given throughout the year to



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DEPARTMENT OF ANTHROPOLOGY

THE SALMON-FISHERS

One of the Murals in the Northwest Coast Hall

teachers and many classes of children have been conducted through the hall.

In addition to the departmental work the editorship of the *American Museum Journal* and the *Guide Leaflets* has been carried.

THE LIBRARY

DEPARTMENT OF BOOKS AND PUBLICATIONS

RALPH W. TOWER, Curator

The Library has experienced another year of excellent progress. Although no large collections in any one subject have been acquired, the many volumes received by gift, purchase and exchange have been of a character most adapted to our needs.

The number of works now in the Library is more than 62,000 volumes, including all bound pamphlets, which are treated both on the shelves and in the catalogue as true volumes. In addition to the above, the Osborn Library of Vertebrate Palæontology contains 1,465 volumes and some 4,000 pamphlets.

Again the patronage of Anson W. Hard has made it possible for us to possess other rare series and classical treatises which are so interesting and important that they are especially acknowledged herewith: *Historia de Chile*, 1847-1853, by C. Gay, an extremely rare set in thirty volumes dealing with the fauna, flora and ethnology of the country; *Anatomie Comparée*, 1850-1856, by Cuvier et Laurillard, a large folio volume devoted to the myology of the vertebrates; *Vues des Cordillères et Monumens des Peuples Indigènes de l'Amérique (Voyage de Humboldt et Bonplana)*, 1810, by Al. de Humboldt, a most authoritative work on the manners and customs of the people; *Voyage Pittoresque et Archéologique dans la Province D'Yucatan*, 1838, by F. de Waldeck; *Die Vögel Afrikas*, 1901-1905, by Ant. Reichenow, in three volumes and an Atlas; *British Diving Ducks*, 1913, by J. G. Millais, two volumes; *Les Pédiculines*, 1880-1885, by E. Piaget, three volumes; *Die Inlandsche Kunstnijver-*

heid in Nederlandsch Indië, 1912, by J. E. Jasper en Mas Pirngadie, two volumes. Through the courtesy of Jonathan Dwight, Jr., who very generously placed at our disposal his personal file of *Forest and Stream*, we were able to complete the library set of this important publication. Cleveland H. Dodge has again donated the current monographs of the Carnegie Institution, and thereby the usefulness of our library has been materially increased.

The library has continued to assist related institutions and scientists living at a distance by loaning such volumes as were requested in so far as each circumstance would permit. A reciprocal courtesy is extended to the American Museum of Natural History by a great many other institutions. The practice of inter-library loans is beyond the experimental stage; it has been found by long trial to be perfectly feasible; permanent loss is so rarely experienced that it is a negligible quantity, and the utilitarian value of the procedure far outweighs any embarrassment of inconveniences or hypothetical loss. With the growth of special libraries, collections of books on scientific and technical subjects, obtained in most instances at an unusually large expense, are certain to be so complete and unique that within more or less restricted districts the general libraries, rather than to compete, will find it more profitable to direct the reader to the special library or resort to the system of inter-library loans.

The new steel stacks having a capacity of some forty thousand volumes, whose installation was noted in our last report, have been occupied during the year. The first floor and a portion of the second tier are occupied by the publications of the various learned societies. In the remaining sections of the second tier are installed the books relating to anthropology and scientific travel. The work of transfer entailing much care and precision was accomplished with but little confusion.

The collection of maps and charts which has been in storage for some time has been again made accessible and arranged in the room formerly occupied by the anthropological library. The equipment is both ample and competent.

The Osborn Library of Vertebrate Palæontology has been administered as a distinct departmental library. The assistant in charge has revised and rearranged the entire author catalogue besides giving much time to special work relating to bibliography, analytic references and the exchanges. The shelf space is entirely inadequate and an expansion of this part of the equipment is much needed.

**Osborn
Library**

PUBLICATIONS

J. A. ALLEN, Editor

The publications of a museum form the principal index of its scientific activity, for it is through its publications, scientific and popular, that the results of its explorations and investigations are presented to the public. In this respect the institution has made a creditable showing during the year. Forty-six technical or scientific papers have been published in the *Bulletin*, *Anthropological Papers* and *Memoirs*. Also during the year the first of the *Monographs* appeared, "A Review of the Primates," by Daniel Giraud Elliot, in three royal octavo volumes. These volumes aggregate 1,360 pages, with 128 halftone plates of skulls and figures from life, and 28 colored plates. This work forms the largest and most important single zoölogical publication thus far undertaken by the Museum.

**Scientific
Publications**

There are also being issued a series of oceanographic papers, the results of the expedition to the Gulf of California in the U. S. S. "Albatross," under Charles H. Townsend, which, through the liberality of Arthur Curtiss James, was undertaken in coöperation with the United States Bureau of Fisheries.

The following papers have been issued:

1. "The Northern Elephant Seal," by Charles H. Townsend.
Published by the New York Zoölogical Society, 1911, in *Zoölogica*.
2. "Mammals Collected in Lower California," by Charles H. Townsend.
Published by the American Museum of Natural History, 1912, in the *Bulletin*.

3. "List of Insects Collected in Lower California," by John H. Grossbeck.
Published by the American Museum of Natural History,
1912, in the *Bulletin*.
4. "Echinoderms from Lower California, with Descriptions of New Species," by Hubert Lyman Clark.
Published by the American Museum of Natural History,
1913, in the *Bulletin*.

The following reports are in preparation :

1. "The Narrative of the Expedition," by Charles H. Townsend.
To be published by the United States Bureau of Fisheries.
2. "The Mollusks," by Paul Bartsch.
3. "The Fishes of the Gulf of California," by Charles H. Townsend
and Raymond C. Osburn.
4. "The Reptiles," by Charles H. Townsend and Miss Mary C.
Dickerson.
5. "The Birds," by Charles H. Townsend.
6. "The Invertebrates other than Echinoderms and Mollusks."
Yet to be assigned for study and report.
7. "A Report on the Deep Sea Fishes," by Charles H. Townsend.

Later these reports will be issued as a special volume in an edition of 100 copies.

The more important of the popular publications were a new edition of the "General Guide," a third edition of the *Key to Building and Collections*, a *Handbook*, "The Indians of the Southwest," and a *Leaflet* on "The Evolution of the Horse." "Animals of the Past" has also been issued as a *Handbook* at a moderate price. It is hoped that other *Leaflets*, and reprints of several now out of print, may be issued during 1914. The demand for these publications continues good, the total sales in the exhibition halls alone during the year being 7,437 copies; 1,837 numbers of the Guide have been sold since its issue in August. The sale of post-cards is also satisfactory, 5,344 single cards and 1,827 sets of fifteen, in all 32,749, having been sold.

The publications by departments are as follows:

DEPARTMENT OF INVERTEBRATE ZOOLOGY

- Charles W. Johnson. "Insects of Florida." *Bull.* XXXII, pp. 37-90.
- H. E. Ewing. "New Acarina." *Bull.* XXXII, pp. 93-121, pls. vii, viii, 9 text figs.
- Hubert Lyman Clark. "Echinoderms from Lower California, with Descriptions of new species." *Bull.* XXXII, pp. 185-236, pls. xlv-xlvi.
- Nathan Banks. "Two new Fossorial Hymenoptera." *Bull.* XXXII, pp. 237, 238.
- William Morton Wheeler. "Ants collected in the West Indies." *Bull.* XXXII, pp. 239-244.
- J. H. Emerton. "New and rare Spiders from within fifty miles of New York City." *Bull.* XXXII, pp. 255-260, pl. xlviii, 1 text fig.
- Nathan Banks. "New American Philanthidæ." *Bull.* XXXII, pp. 421-425, pl. lxvii.
- Charles T. Brues and C. H. Richardson. "Descriptions of New Parasitic Hymenoptera from British Guiana." *Bull.* XXXII, pp. 485-503, 5 text figs.
- T. D. A. Cockerell. "A New Slug from the Himalaya Mountains." *Bull.* XXXII, pp. 617-619, 7 text figs.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

- Russell J. Coles. "Notes on the Embryos of several species of Rays, with remarks on the northward summer Migration of certain tropical forms observed on the Coast of North Carolina." *Bull.* XXXII, pp. 29-35, pl. iii, 2 text figs.
- John Treadwell Nichols. "Notes on Teleosts collected by Mr. Roy C. Andrews in Japan, with Descriptions of two new species." *Bull.* XXXII, pp. 179-183, 3 text figs.
- L. Hussakof. "Descriptions of four new Palæozoic Fishes from North America." *Bull.* XXXII, pp. 245-250, pl. xlvii, 2 text figs.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

- H. E. Anthony. "Mammals of northern Malheur County, Oregon." *Bull.* XXXII, pp. 1-27, pls. i, ii.
- D. G. Elliot. "Description of new species of Monkeys of the Genera *Seniocebus* and *Aotus* from Colombia, S. A." *Bull.* XXXII, pp. 251-253.
- J. A. Allen and Roy C. Andrews. "Mammals collected in Korea." *Bull.* XXXII, pp. 427-436.
- J. A. Allen. "New Mammals from Colombia and Ecuador." *Bull.* XXXII, pp. 469-484, 16 text figs.

- Robert Cushman Murphy. "The Trachea of *Ognorhinus*, with Notes on other Soft Parts." *Bull.* XXXII, pp. 505, 506, 1 text fig.
- J. A. Allen. "Revision of the *Melanomys* Group of American Muridæ." *Bull.* XXXII, pp. 533-555, pl. lxviii.
- J. A. Allen. "New South American Muridæ." *Bull.* XXXII, pp. 597-604.
- J. A. Allen. "Ontogenetic and other Variations in Muskoxen, with a Systematic Review of the Muskox Group, Recent and Extinct." *Mem.* N. S., Vol. I, pt. iv, pp. 105-226, pls. xi-xviii, 46 text figs.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

- Henry Fairfield Osborn. "*Tyrannosaurus*, Restoration and Model of the Skeleton." *Bull.* XXXII, pp. 91, 92, pls. iv-vi.
- R. W. Shufeldt. "Review of the Fossil Fauna of the Desert Region of Oregon, with a Description of additional material collected there." *Bull.* XXXII, pp. 123-178, pls. ix-xliii.
- Henry Fairfield Osborn. "*Eomoropus*, an American Eocene Chalicothere." *Bull.* XXXII, pp. 261-274, 11 text figs.
- Friedrich von Huene. "A New Phytosaur from the Palisades near New York." *Bull.* XXXII, pp. 275-283, pls. xlix, l, 14 text figs.
- R. W. Shufeldt. "Further Studies of Fossil Birds, with Descriptions of New and Extinct Species." *Bull.* XXXII, pp. 285-306, pls. li-lix.
- W. D. Matthew. "A Zalambdodont Insectivore from the Basal Eocene." *Bull.* XXXII, pp. 307-314, pls. lx, lxi, 6 text figs.
- Friedrich von Huene. "The Skull Elements of the Permian Tetrapoda in the American Museum of Natural History, New York." *Bull.* XXXII, pp. 315-386, 57 text figs.
- Barnum Brown. "The Skeleton of *Saurolophus*, a Crested, Duck-billed Dinosaur from the Edmonton Cretaceous." *Bull.* XXXII, pp. 387-393, pls. lxii, lxiii, 1 text fig.
- Barnum Brown. "A New Trachodont Dinosaur, *Hypacrosaurus*, from the Edmonton Cretaceous of Alberta." *Bull.* XXXII, pp. 395-406, 8 text figs.
- Henry Fairfield Osborn. "Lower Eocene Titanotheres. Genera *Lambdotherium*, *Eotitanops*." *Bull.* XXXII, pp. 407-415, 9 text figs.
- Henry Fairfield Osborn. "The Skull of *Bathyopsis*, Wind River Uinta-there." *Bull.* XXXII, pp. 417-420, pls. lxiv-lxvi, 4 text figs.
- R. Broom. "Notes on *Equus capensis* Broom." *Bull.* XXXII, pp. 437-439, 1 text fig.
- R. Broom. "On some new genera and species of Dicynodont Reptiles, with Notes on a few others." *Bull.* XXXII, pp. 441-457, 19 text figs.
- R. Broom. "On the Origin of the Cheiropterygium." *Bull.* XXXII, pp. 459-464, 6 text figs.

- R. Broom. "On the Evidence of a Mammal-like Dental Succession in the Cynodont Reptiles." *Bull.* XXXII, pp. 465-468, 1 text fig.
- R. Broom. "On the Squamosal and Related Bones in the Mosasaurs and Lizards." *Bull.* XXXII, pp. 507, 508, 1 text fig.
- R. Broom. "On the Structure and Affinities of *Bolosaurus*." *Bull.* XXXII, pp. 509-516, 5 text figs.
- R. Broom. "On the Cotylosaurian Genus *Pantylus* Cope." *Bull.* XXXII, pp. 527-532, 4 text figs.
- R. Broom. "On some new carnivorous Therapsids." *Bull.* XXXII, pp. 557-561, 4 text figs.
- R. Broom. "Studies on the Permian Temnospondylous Stegocephalians of North America." *Bull.* XXXII, pp. 563-595, 21 text figs.
- Barnum Brown. "A New Plesiosaur, *Leurospondylous*, from the Edmonton Cretaceous of Alberta." *Bull.* XXXII, pp. 605-615, 7 text figs.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

- Eleanora F. Bliss. "Glaucophane from Eastern Pennsylvania." *Bull.* XXXII, pp. 517-526, 5 text figs.

DEPARTMENT OF ANTHROPOLOGY

- Robert H. Lowie. "Dance Associations of the Eastern Dakota." *Anthrop. Papers*, XI, pt. ii, pp. 103-137.
- Robert H. Lowie. "Societies of the Crow, Hidatsa and Mandan Indians." *Anthrop. Papers*, XI, pt. iii, pp. 145-212, 7 text figs.
- Clark Wissler. "Societies and Dance Associations of the Blackfoot Indians." *Anthrop. Papers*, XI, pt. iv, pp. 361-460, 29 text figs.
- Alanson Skinner. "Social Life and Ceremonial Bundles of the Menomini Indians." *Anthrop. Papers*, XIII, pt. i, pp. 3-162, 30 text figs.

POPULAR PUBLICATIONS

- "Forty-fourth Annual Report of the Trustees," 208 pages, 1 map and 14 halftone plates.
- "Indians of the Southwest," by Pliny Earle Goddard. *Handbook Series* No. 2, 191 pages, large map and numerous text figures.
- "Animals of the Past," by Frederic A. Lucas. *Handbook Series* No. 4, 266 pages, 15 halftone plates and 26 text figures.
- "Evolution of the Horse," by W. D. Matthew and S. H. Chubb. *Guide Leaflet* No. 36, 63 pages, 11 halftone plates and 27 text figures.
- "General Guide to the Exhibition Halls," by Frederic A. Lucas. *Guide Leaflet* No. 37, 117 pages, 11 halftone plates and numerous text figures.

III. MEMBERSHIP

GEORGE H. SHERWOOD, Assistant Secretary

There are now nearly 3,600 Members on our roll, and their support is gratefully acknowledged. Especially do we wish to thank those Members who have nominated their friends for election and for the practical assistance which they have rendered in increasing our membership.

Members enjoy certain privileges which it is impracticable to extend to others. They receive tickets admitting their friends and themselves to the regular courses of lectures for Members; a special room is provided for their convenience; they receive free copies of the *Museum Journal*, a magazine designed to keep them in touch with the work of the Museum, and the services of an instructor are available if they desire to have the exhibits explained. In addition to the regular privileges enumerated above, from time to time we have an opportunity to extend special privileges to Members. Last spring a special course of stories for the children of Members was provided. These stories were designed to acquaint children with animals and their habits in an entertaining way. The stories proved so popular that a similar course was given during the autumn, and a third series has been arranged for the coming spring.

Several special lectures of merit have also been given for Members. Among these may be mentioned "Hiawatha" in motion picture, presented under the direction of F. E. Moore, in coöperation with the American Scenic and Historic Preservation Society; a lecture by Joseph Lindon Smith, on Upper and Lower Egypt, illustrated with autochromes, and a lecture on Oceanography by Albert, Prince of Monaco. Thus through the lectures the Museum presents to its Members the latest discoveries in science and results of explorations.

The Members' Room will be found on the third floor, near the elevator. It is equipped with reading and correspondence tables and lounging chairs. A public Visitors' Room has been

opened in the vestibule of the Museum. Members will find this a convenient place to meet friends, especially when attending lectures.

Full information regarding membership will be forwarded by the Secretary on request.

CLASSES OF MEMBERSHIP

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

Continuous efforts are made to increase the membership and the past year has witnessed a gratifying growth in the number of Members. In all 511 new names have been enrolled, but as there has been a loss through death and resignation of 173, the net gain for the year is 338.

On December 31, 1913, the total membership was 3,596, divided into classes, as follows:

Benefactors.....	2	Honorary Fellows.....	7
Associate Benefactors.....	13	Life Members.....	629
Patrons.....	113	Sustaining Members.....	74
Fellows.....	45	Annual Members.....	2,713

NEW MEMBERS

The following was elected a Benefactor:

HENRY FAIRFIELD OSBORN

The following was elected an Associate Benefactor:

A. D. JULLIARD

The following were elected Patrons:

PAUL J. RAINEY

CHARLES SMETS

The following were elected Fellows:

PAUL GRISWOLD HOWES

EMERSON MCMILLIN

FREDERIC C. WALCOTT

The following were elected Honorary Fellows:

CAPTAIN ROALD AMUNDSEN

REAR ADMIRAL ROBERT E. PEARY, U.S.N.

DR. LEONARD C. SANFORD

The following were elected Life Members:

REV. ARTHUR H. ALLEN	OGDEN L. MILLS
ALBERT H. BALDWIN	RUSSELL HASTINGS MILLWARD
WM. F. BELLER	MRS. WM. G. NICHOLS
C. M. BERGSTRESSER	EDWARD C. PARISH
HENRY W. BOETTGER	EDMUND PENFOLD
ROBERT BOETTGER	S. C. PIRIE
LOUIS J. BOURY	CHARLES T. RAMSDEN
JAMES C. BRADY	WILLIAM LATHROP RICH
STANLEY DOTY BROWN	JOHN J. RIKER
MISS ELEANOR DE GRAFF CUYLER	WM. M. ROBERTSON
A. V. DE GOICOURIA	ARCHIBALD D. RUSSELL
ALFRED DEJONGE	THOMAS F. RYAN
WARREN DELANO	ARNOLD SCHLAET
GEO. EASTMAN	HERBERT F. SCHWARZ
D. K. ESTE FISHER, JR.	MISS GRACE SCOVILLE
J. HOWARD FORD	ALBERT JAMES SHELDON
FRANCIS P. GARVAN	MRS. WILLIAM SLOANE
CHARLES E. HANAMAN	BYRON L. SMITH
MRS. RICHARD MARCH HOE	HOWARD CASWELL SMITH
CHAS. B. ISHAM	DR. ALLEN M. THOMAS
WM. KENNON JEWETT	WILLIAM BOYCE THOMPSON
PERCIVAL LOWELL	MRS. MARY A. TUTTLE
J. MALFEYT	ALFRED G. VANDERBILT
	CHAS. B. WEBSTER

The following have become Sustaining Members:

HENRY BENDHEIM	DAVID LIEBMAN
WILLIAM BRUCE-BROWN	ARTHUR NOTMAN
MRS. ALFRED M. COATS	OGDEN M. REID
H. C. FAHNESTOCK	MARIE L. RUSSELL
JOHN F. HARRIS	EWALD H. SCHNIEWIND
BENJAMIN A. HEGEMAN, JR.	FREDERICK STURGES
MRS. EMILY N. HUYCK	MRS. HELEN HALL VAIL
	HAROLD C. WHITMAN

DECEASED TRUSTEES AND MEMBERS

It is with a profound sense of our loss that we announce the death of the following Trustees and Members during the year 1913:

Trustees

GEORGE S. BOWDOIN J. PIERPONT MORGAN
WILLIAM J. GAYNOR

Patrons

GEORGE A. HEARN JAMES R. KEENE

Fellows

H. M. FLAGLER JOHN T. TERRY

Life Members

HUGH D. AUCHINCLOSS WILLIAM GASTON HAMILTON
FREDERICK BILLINGS WILLIAM F. HAVEMEYER
ANTHONY N. BRADY KARL HUTTER
ADDISON BROWN THEO. F. JACKSON
S. D. COYKENDALL BRADLEY MARTIN
MISS D. GREER HERMAN SIMON
ANSON PHELPS STOKES

The following is the Minute which was adopted at the Annual Meeting of the Board, February 2, 1914, in recognition of Mr. Bowdoin's interest in the Museum:

The Trustees desire to record their sense of the loss that the Museum has sustained in the death on December 16, 1913, of

GEORGE SULLIVAN BOWDOIN

Mr. Bowdoin became a Member of the Board on February 9, 1903, and took a very active interest in the affairs of the Museum from the first. He served on the Executive Committee during the years 1906 to 1910. His benefactions were many and generous, including a very material contribution to the Endowment Fund and a series of gifts in 1906 and 1907 to the development of the Cetacean Collection, which is now the finest in the United States. In 1908 to 1910 his interest was especially shown in the extension of the Hawaiian, South Sea Islands and African collections. After this he devoted himself particularly to the collections of South American Birds.

Mr. Bowdoin's quiet dignified manner, his broad interest in the work of the several departments, his friendliness and his consideration for others endeared him to all whether of high or low degree. He frequently visited the Museum in the latter years of his life, and his kindly presence will be greatly missed.

IV. FINANCES, MAINTENANCE, ENDOWMENT

CHARLES LANIER, *Treasurer*

No important changes have been made in the method of conducting the finances of the Museum. The United States Trust Company of New York has continued to be the depository of all moneys received by the Museum, excepting the funds and securities of the Permanent Endowment, which continue in the custody of J. P. Morgan & Co.

At the Museum the affairs of the Treasurer's Office have been in charge of the Bursar, Frederick H. Smyth, whose efficiency is worthy of special mention.

So great has been the growth of the Museum in recent years, and so varied are its activities, that it has been found necessary to establish several new accounts to properly record the financial transactions. The major financial business has been recorded in the usual four accounts, namely, the City Maintenance Account, the General Account, the Special Funds Account and the Endowment and Investment Account. In addition to these it has been necessary to maintain a Building Account, in which are handled all corporate stock moneys received from the City for building and equipment, and the Incidental Account for transactions which are not part of the regular business of the Museum, but in which the Museum acts as agent only.

The relations of the Museum to the Crocker Land Expedition have made it advisable to keep the funds for this purpose separate, which is done in the Crocker Land Expedition Fund Account.

The Pension Plan, adopted by the Trustees for the Museum, is a mandatory contributory system. It has entailed a very large amount of clerical work in connection with the regular Museum books, and, since the Bursar of the Museum is *ex-officio* also the Bursar of the Pension Fund, the duties of his office have been considerably increased. Some idea of the

clerical work involved may be gained from the fact that the entries for the Pension Fund occupy more space in the cash book than is required for the entire City Maintenance Account.

To expedite the work of the Museum, a Bursar's Account is maintained at a local bank. This is merely a temporary working fund, and, since all expenditures in this account are eventually embodied in other accounts, no detailed record of the individual transactions is kept.

The Audit Company of New York, under the direction of the Auditing Committee of the Trustees, has made the usual semiannual examination of all books and vouchers of these various accounts.

The details of the receipts and disbursements will be found in the Treasurer's Report, pages 93 to 117, inclusive.

As the name implies, the moneys received from the City for maintenance are recorded in the City Maintenance Account.

City Maintenance Account The Trustees first pay all bills contracted in this account and then submit the receipted vouchers to the City for reimbursement. In 1913, the City for the first time appropriated for maintenance \$200,000, the maximum amount permitted under existing laws. The City authorities very wisely left the apportionment of this sum to the Trustees, thereby enabling the Museum to make the most effective use of it. Generous as this appropriation may seem, it is insufficient to meet the maintenance expenses of an institution as large as the American Museum of Natural History. In 1913 the total cost of maintenance, as maintenance is defined in the Laws of 1905, was \$297,000, or a sum of \$97,000 greater than the City's appropriation. This deficit the Trustees have met out of their own funds, which otherwise would be devoted to the enrichment of the collections.

The funds of the General Account are the mainstay of the scientific and educational work of the institution, and the systematic growth and development of the Museum are dependent upon them. The interest on invested funds, the fees from Members and the personal contributions of Trustees are the chief sources of income. In 1913 the total net receipts were

\$226,863.04, a sum larger than last year by \$27,744.96. The principal items of income are as follows:

Interest on General Endowment Fund.....	\$58,938 01
Interest on Morris K. Jesup Fund.....	50,997 94
Annual and Sustaining Members.....	26,535 00
Personal Contributions of Trustees.....	64,000 00

Owing to the fact that most of the obligations contracted in the General Account have to be paid before the regular income is received, it has been necessary to borrow money from the bank to carry on the business of this account. For this purpose the Trustees have given three notes, aggregating \$60,000, to the United States Trust Company of New York, as security for the loans that have been necessary to carry on the business of the Museum. Therefore, of the \$64,704.99, shown as a cash balance in the Treasurer's statement of the General Account, \$60,000 is required to meet these notes. The net cash balance in this account, after providing for all the obligations of 1913, is \$1,850.95.

Money contributed for a specified purpose is deposited in the Special Funds Account. It usually receives a name of its own, and cannot be used for any other purpose, except with the contributor's consent. Contrasted with the income of the General Account, the income of this account is variable and uncertain, since it is dependent on the interest of friends in special objects or collections. These contributions in 1913 have amounted to \$16,006.43.

The Permanent Endowment has been increased by two bequests during the year, namely, \$1,000 from the Estate of Edward S. Russ, and \$10,000 from the Estate of Henry Iden, a Life Member. Life membership fees have added \$4,300 to this fund, and the profit in the exchange of certain bonds netted an additional sum of \$7,910.

Of interest is the following statement of the total contributions to income for the past twelve years. This statement shows especially the steady growth of gifts and support coming to the Museum:

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
1902	\$46,779 78	\$41,204 93	\$20,980 00	\$32,208 57	\$160,000 00	\$200,000 00
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
	\$529,435 20	\$558,203 67	\$800,581 75	\$1,852,082 70	\$2,080,444 22	\$1,288,000 00

Total Appropriations by the City of New York	3,368,444 22
Total Gifts and Contributions by Trustees and other Members of the Museum	3,740,303 32
	<u>\$7,108,747 54</u>

That the Permanent Endowment has not had a greater growth is deeply to be regretted, for the systematic development of the Museum is primarily dependent upon the income from the endowment. The increase of the endowment should receive the earnest attention of Trustees and friends who are interested in the work of the institution.

Respectfully submitted,

HENRY FAIRFIELD OSBORN

February 2, 1914

President

FINANCIAL STATEMENT

1913

*PERMANENT ENDOWMENT**

Morris K. Jesup Fund	\$1,146,838 80	
General Endowment Fund.....	1,186,627 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	
	\$2,411,350 00	
Uninvested Cash :		
General Endowment Fund.....		2,387 82
Jonathan Thorne Memorial Fund.....		2 21
		\$2,413,740 03

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

ENDOWMENT AND INVESTMENT ACCOUNT

RECEIPTS

1913

GENERAL ENDOWMENT FUND :

Balance.....	\$3,517 82	
Estate of Edward S. Russ.....	1,000 00	
Estate of Henry Iden.....	10,000 00	
Life Members.....	4,300 00	
Redemption of Bonds.....	15,000 00	
Proceeds of Exchange of Bonds.....	7,910 00	\$41,727 82

JONATHAN THORNE MEMORIAL FUND :

Balance.....	2 21
--------------	------

INTEREST ON CREDIT BALANCES :

Earnings to December 31, 1913.....	161 38
	<u>\$41,891 41</u>

Examined and Approved	{ ANSON W. HARD OGDEN MILLS FREDERICK F. BREWSTER }	{ Auditing Committee
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ENDOWMENT AND INVESTMENT ACCOUNT

DISBURSEMENTS

1913

GENERAL ENDOWMENT FUND :

Purchase of Bonds and Stocks.....	\$39,340 00
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INTEREST ON CREDIT BALANCES :

Transferred to Interest on Credit Balances, General Account.....	161 38
--	--------

CASH ON HAND December 31, 1913.....	2,390 03
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<u>\$41,891 41</u>

CHARLES LANIER, *Treasurer*

E. & O. E.

NEW YORK, *December 31, 1913*

CITY MAINTENANCE ACCOUNT

RECEIPTS

1913

Capital Fund, cash on hand January 1, 1913.....	\$15,000 00
Department of Parks:	
Appropriation for 1913:	
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, 1913.....	191 35
Loans.....	4,200 00

 \$219,391 35

Examined and Approved	{	ANSON W. HARD	{	<i>Auditing Committee</i>
		OGDEN MILLS		
		FREDERICK F. BREWSTER		

CITY MAINTENANCE ACCOUNT*

DISBURSEMENTS

1913

Geology and Invertebrate Palæontology.....	\$4,313 42
Mineralogy.....	1,912 14
Mammalogy and Ornithology.....	5,051 09
Vertebrate Palæontology.....	5,102 37
Anthropology.....	6,637 08
Invertebrate Zoölogy.....	6,055 03
Ichthyology and Herpetology.....	3,037 90
Anatomy and Physiology.....	30 52
Public Health.....	1,828 28
Woods and Forestry.....	8 00
Library.....	8,599 58
Public Education.....	5,064 99
Preparation and Exhibition.....	2,300 65
Heating and Lighting.....	19,964 58
Repairs and Installation.....	28,774 90
General Supplies and Expenses.....	10,009 74
Administration.....	91,309 73
Total net disbursements for the maintenance of all departments.....	\$200,000 00
Interest on Credit Balances :	
Transferred to Interest on Credit Balances, General Account.....	191 35
Loans.....	4,200 00
Capital Fund :	
Cash on hand December 31, 1913.....	15,000 00
	<u>\$219,391 35</u>

CHARLES LANIER, *Treasurer*

E. & O. E.

NEW YORK, *December 31, 1913*

* The annual appropriation of the City can be used only for the *maintenance* of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions. The deficiency in *maintenance* for 1913, amounting to \$97,000 has been met from the Trustees' General Fund.

GENERAL ACCOUNT

RECEIPTS

1913

Cash on hand January 1, 1913.....		\$18,358 80
Interest on General Endowment Fund.....	\$58,938 01	
Interest on Morris K. Jesup Fund.....	50,997 94	
Interest on Credit Balances.....	722 71	
Annual Members.....	24,910 00	
Sustaining Members.....	1,625 00	
Sales and Exchanges.....	3,837 27	
Sale of Publications.....	3,473 31	

Contributions of Trustees for General Receipts :

George S. Bowdoin.....	\$3,000 00	
Frederick F. Brewster.....	2,500 00	
Joseph H. Choate.....	1,500 00	
Thomas De Witt Cuyler.....	2,500 00	
Cleveland H. Dodge.....	9,000 00	
Anson W. Hard.....	1,000 00	
Adrian Iselin, Jr.....	2,000 00	
Arthur Curtiss James.....	10,000 00	
Walter B. James.....	1,000 00	
A. D. Juilliard.....	2,500 00	
Charles Lanier.....	1,500 00	
Ogden Mills.....	4,000 00	
Estate of J. Pierpont Morgan.....	5,000 00	
J. P. Morgan.....	3,000 00	
Henry Fairfield Osborn.....	2,000 00	
Percy R. Pyne.....	2,500 00	
Wm. Rockefeller.....	5,000 00	
John B. Trevor.....	1,000 00	
Felix M. Warburg.....	5,000 00	64,000 00 208,504 24

Total net receipts for the development of all departments..... **\$226,863 04**

Loans:

City Maintenance Account.....	4,200 00	
Crocker Land Expedition Fund Account.....	4,000 00	
Bursar's Account.....	7,500 00	15,700 00

Proceeds of Notes held by United States Trust Co. of N. Y..... 60,000 00

\$302,563 04

Examined and Approved { ANSON W. HARD
OGDEN MILLS
FREDERICK F. BREWSTER } Auditing Committee

GENERAL ACCOUNT*

DISBURSEMENTS

1913

Geology and Invertebrate Palæontology.....	\$9,850	74	
Mineralogy	1,688	69	
Mammalogy and Ornithology	31,267	76	
Vertebrate Palæontology.....	26,074	26	
Professor Osborn's Research and Publication Fund.	4,000	00	
Anthropology.....	22,008	43	
Invertebrate Zoölogy.....	8,049	50	
Ichthyology and Herpetology	4,386	08	
Anatomy and Physiology.....	2,452	66	
Public Health.....	1,917	83	
Woods and Forestry.....	3,108	42	
Library.....	9,129	64	
Publications.....	25,789	15	
Public Education.....	6,602	83	
Preparation and Exhibition	25,476	47	
Heating and Lighting.....	2,654	74	
Repairs and Installation.....	1,381	44	
General Supplies and Expenses.....	16,373	17	
Administration.....	2,940	45	
Pension Fund.....	6,465	72	
Interest on Loans.....	1,040	07	
Total net disbursements for the development of all departments.....			\$212,658 05
Loans:			
City Maintenance Account.....	4,200	00	
Crocker Land Expedition Fund Account.....	13,500	00	
Bursar's Account	7,500	00	25,200 00
Cash on hand December 31, 1913:			
Cash in Bank.....	4,704	99	
Proceeds of Notes held by United States Trust Co. of N. Y. to meet overdrafts.....	60,000	00	†64,704 99
			<u>\$302,563 04</u>
E. & O. E.	CHARLES LANIER,	Treasurer	
	NEW YORK,	December 31, 1913	

* 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 **\$64,704.99**. Of this sum, **\$60,000** is required to meet the three notes held by the United States Trust Company of New York. Thus the net cash in bank December 31, 1913, was **\$4,704.99**. 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 1914. Therefore, the actual balance in the General Account is **\$14,204.99**, of which **\$12,354.04** is being held in the 1914 budget to meet unpaid pledges and contracts of 1913. The actual net cash balance on December 31, 1913, after meeting all the obligations of 1913, was **\$1,850.95**.

SPECIAL FUNDS ACCOUNT

RECEIPTS

1913

GEOLOGY AND INVERTEBRATE PALÆONTOLOGY:

METEORITE FUND:

Arthur Curtiss James.....	\$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.....	\$375 32
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MRS. FRANK K. STURGIS FUND:

Balance.....	3 26
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CONGO EXPEDITION FUND:

Balance.....	21 71
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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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THIRD AFRICAN EXPEDITION FUND:

Balance.....	\$2,384 15
J. Pierpont Morgan.....	750 00
Subscriptions received through President Henry Fairfield Osborn.....	750 00
	<u>3,884 15</u>

SOUTH AMERICAN EXPLORATION FUND:

Balance.....	288 90
Charles B. Isham.....	100 00
Albert H. Baldwin.....	100 00
	<u>488 90</u>

PREPARATION OF AFRICAN COLLECTIONS FUND:

Cleveland H. Dodge.....	250 00
Robert W. Goelet.....	100 00
Arthur Curtiss James.....	250 00
Walter B. James.....	250 00
Henry Fairfield Osborn.....	100 00
	<u>950 00</u>

ROOSEVELT SOUTH AMERICAN EXPEDITION FUND:

Cleveland H. Dodge.....	1,500 00
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SOUTH GEORGIA EXPEDITION FUND:

Arthur Curtiss James.....	500 00
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	<u>9,883 34</u>
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<i>Carried forward</i>	\$11,043 34
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SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1913

MINERALOGY:

MATILDA W. BRUCE FUND:

Purchase of mineral specimens..... \$660 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

For preparation of bird groups..... \$297 07

CONGO EXPEDITION FUND:

Services of field assistant in Africa..... 21 71

THIRD AFRICAN EXPEDITION FUND:

For expenses of field work in Africa in charge
of W. S. Rainsford..... 3,884 15

SOUTH AMERICAN EXPLORATION FUND:

Purchase of equipment and expenses of field
work..... 100 24

PREPARATION OF AFRICAN COLLECTIONS FUND:

Preparation of African Hall Model. \$87 81
Transferred to Mammalogy and Orni-
thology, General Account, for
the preparation of African Hall
Model..... 150 00 237 81

ROOSEVELT SOUTH AMERICAN EXPEDITION FUND:

Purchase of equipment and services
of field assistant..... 284 60
Transferred to Mammalogy and Orni-
thology, General Account, for
the purchase of equipment and
services of field assistant..... 397 51 682 11

SOUTH GEORGIA EXPEDITION FUND:

Final payment on account of contract with
Benjamin D. Cleveland for expedition to
South Georgia Island..... 500 00 5,723 09

Carried forward..... \$6,383 09

SPECIAL FUNDS ACCOUNT

RECEIPTS

1913

Brought forward.....\$11,043 34

VERTEBRATE PALÆONTOLOGY:

VERTEBRATE PALÆONTOLOGY FIELD FUNDS:

Henry Fairfield Osborn..... \$50 00

HORSE EXPLORATION FUND:

Balance..... \$250 00
 Henry Fairfield Osborn..... 375 00
 Frank K. Sturgis..... 250 00
 From a Friend..... 2,000 00 2,875 00 2,925 00

ANTHROPOLOGY:

EAST ASIATIC FUND:

Balance..... 2,335 49

BUREAU OF MISSIONS FUND:

Balance..... 103 80

PRIMITIVE PEOPLES OF SOUTHWEST FUND:

Balance..... 29 45
 Archer M. Huntington..... 5,000 00 5,029 45

MURAL PAINTINGS FUND:

Balance..... 1,000 00

MANDAN COSTUME FUND:

Mrs. E. H. Harriman..... 500 00

TENNESSEE COLLECTION FUND:

J. P. Morgan..... 661 85 9,630 59

INVERTEBRATE ZOÖLOGY:

TAHITI FUND:

Balance..... 220 00

INVERTEBRATE ZOÖLOGICAL EXPEDITION FUND:

Balance..... 113 66 333 66

ICHTHYOLOGY AND HERPETOLOGY:

DODGE ICHTHYOLOGY FUND:

Balance..... 1,439 34
 Cleveland H. Dodge..... 1,000 00 2,439 34

FISH BIBLIOGRAPHY FUND:

Balance..... 312 25 2,751 59

Carried forward..... \$26,684 18

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1913

Brought forward.....\$6,383 09

VERTEBRATE PALÆONTOLOGY :

VERTEBRATE PALÆONTOLOGY FIELD FUNDS :

Expenses of field assistant..... \$50 00

HORSE EXPLORATION FUND:

Services of assistant, boarding of
Hinny and publication of the
Horse *Leaflet*..... \$819 23

Transferred to Professor Osborn's
Research and Publication Fund,
General Account, for the pub-
lication of the Horse *Leaflet*... 250 00

Transferred to Vertebrate Palæon-
tology, General Account, for
expenses of field work and ser-
vices of assistant..... 1,805 77 2,875 00 2,925 00

ANTHROPOLOGY :

BUREAU OF MISSIONS FUND :

Purchase of specimens..... 92 00

PRIMITIVE PEOPLES OF SOUTHWEST FUND :

For expenses of field work, purchase
of specimens and preparation of
Hopi Group..... 2,372 14

Transferred to Anthropology, Gen-
eral Account, for field work... 500 00 2,872 14

MANDAN COSTUME FUND:

Purchase of costume..... 500 00

TENNESSEE COLLECTION FUND:

Transferred to Anthropology, Gen-
eral Account, for purchase of
collection..... 661 85 4,125 99

INVERTEBRATE ZOÖLOGY :

TAHITI FUND:

Expenses of Preparator..... 25 00

ICHTHYOLOGY AND HERPETOLOGY :

DODGE ICHTHYOLOGY FUND :

For expenses of field work and purchase of
specimens 1,029 73

FISH BIBLIOGRAPHY FUND :

Preparation of bibliography of fishes 312 25 1,341 98

Carried forward.....\$14,801 06

SPECIAL FUNDS ACCOUNT

RECEIPTS

1913

Brought forward.....\$26,684 18

PUBLIC HEALTH :

HYGIENE EXHIBIT FUND :

Balance..... \$124 25

INSECT MODEL FUND :

Walter B. James 250 00 374 25

PUBLIC EDUCATION :

JONATHAN THORNE MEMORIAL FUND :

Balance.....\$1,533 11

Interest..... 1,084 20 2,617 31

CHILDREN'S ROOM FUND :

Balance..... 90 69

A Friend..... 25 00 115 69 2,733 00

PREPARATION AND EXHIBITION :

SEA ELEPHANT PREPARATION FUND :

Balance..... 1,000 00

PUBLICATIONS :

JESUP NORTH PACIFIC EXPEDITION

PUBLICATIONS :

Balance..... 2,087 53

MUSEUM JOURNAL FUND :

Atchison, Topeka & Santa Fé R. R. Co..... 75 00 2,162 53

Total net receipts for the development of specific departments.....**\$32,953 96**

PENSION FUND :

Balance..... 1,000 00

Transferred from Interest on Credit Balances,

General Account 83 27 1,083 27

MEMORIAL HALL FUND :

Balance..... 1,000 00

ACADEMY ROOM FUND :

Emerson McMillin..... 437 19

Carried forward.....\$35,474 42

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1913

Brought forward \$14,801 06

PUBLIC HEALTH:

HYGIENE EXHIBIT FUND:

Transferred to Preparation and Exhibition,
General Account, for preparation of fly
model \$124 25

INSECT MODEL FUND:

Preparation of insect models.....\$124 21
Transferred to Public Health, General
Account, for preparation of insect
models..... 125 79 250 00 374 25

PUBLIC EDUCATION:

JONATHAN THORNE MEMORIAL FUND:

For services of instructors, transportation of the blind
and expenses of special lectures..... 1,044 11

PUBLICATIONS:

JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS:

For services preparing manuscript..... 683 85

MUSEUM JOURNAL FUND:

Transferred to Publications, General Account,
for color plate of Akin painting..... 75 00 758 85

**Total net disbursements for the development of specific
departments..... \$16,978 27**

PENSION FUND:

Transferred to Pension Fund Account..... 1,083 27

MEMORIAL HALL FUND:

For bust of Rear Admiral Robert E. Peary. 1,000 00

ACADEMY ROOM FUND:

For adjusting acoustics of the Academy Room... 279 71
Transferred to Repairs and Installation, General
Account, for services and material adjusting
acoustics of Academy Room..... 89 77 369 48

Carried forward..... \$19,431 02

SPECIAL FUNDS ACCOUNT

RECEIPTS

1913

Brought forward.....\$35,474 42

PREPARATION OF AFRICAN COLLECTIONS FUND:

Transferred from Mammalogy and Ornithology,
General Account 275 00

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1913..... 424 11

\$36,173 53

Examined and Approved	{	ANSON W. HARD OGDEN MILLS FREDERICK F. BREWSTER	}	<i>Auditing Committee</i>
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SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1913

Brought forward.....\$19,431 02

INTEREST ON CREDIT BALANCES:

Transferred to Interest on Credit Balances, General
Account..... 424 11

CASH ON HAND DECEMBER 31, 1913..... 16,318 40

\$36,173 53

CHARLES LANIER, *Treasurer*

E. & O. E.

NEW YORK, *December 31, 1913*

CROCKER LAND EXPEDITION FUND ACCOUNT

RECEIPTS

1913

CASH ON HAND JANUARY 1, 1913..... \$17,565 04

GEORGE BORUP GUARANTEE:

Yale University.....	\$1,000 00	
Theodore Roosevelt.....	10 00	
Class of 1907, Yale.....	511 77	
Groton School.....	250 00	\$1,771 77

DONALD B. MACMILLAN GUARANTEE:

Bowdoin College.....	100 00	
D. L. Brainard.....	100 00	
Louis F. Mohr.....	5 00	
Geo. M. Gray.....	100 00	
L. D. Kellogg.....	500 00	
M. J. Look.....	37 50	
Sumner T. McKnight.....	25 00	
S. Henry Baldwin.....	15 00	
Cogswell School, Haverhill, Mass..	10 30	
Prescott Club, Clinton, Mass.....	60 00	
Frederick E. Clerk's Sunday School		
Class, Groton, Mass.....	2 00	
The Allen School, West Newton,		
Mass.....	53 00	
C. A. H. de Saulles.....	50 00	
Wm. Underwood Co.....	613 10	
Louis A. Shaw.....	100 00	1,770 90
Zenas Crane.....		1,000 00
University of Illinois.....		5,000 00
Henry Dodge Cooper.....		250 00
Mrs. Harriet C. Alexander.....		1,000 00
H. D. Borup.....		14 00
American Geographical Society.....		3,000 00
Peary Arctic Club.....		500 00
R. A. Harris.....		50 00
Henry Fairfield Osborn.....		100 00
Robert E. Peary.....		500 00
Interest on Credit Balances.....		349 26
Tribune Association Contract:		
The Tribune Association.....		1,000 00
Sale of Photographs.....		3 00
		<u>16,308 93</u>
<i>Carried forward</i>		\$33,873 97

CROCKER LAND EXPEDITION FUND ACCOUNT

DISBURSEMENTS

1913

Materials, Supplies and Equipment.....	\$23,774 24	
Incidental Expenses	989 98	
Salaries	2,881 91	
Transportation.	<u>21,945 05</u>	49,591 18
Loans:		
General Account		4,000 00

Carried forward..... \$53,591 18

CROCKER LAND EXPEDITION FUND ACCOUNT

RECEIPTS

1913

Brought forward..... \$33,873 97

TOURIST PASSAGE:

CARROLL SPRIGG.....	\$1,000 00	
FREDERICK PATTERSON.....	1,000 00	2,000 00

GENERAL ACCOUNT:

GEOLOGY FOR 1912 AND 1913....	1,000 00	
MAMMALOGY FOR 1913.	500 00	
ANTHROPOLOGY FOR 1913.....	250 00	
GEOLOGY — JESUP RESERVE FOR 1912 AND 1913.....	3,000 00	4,750 00

LOANS:

GENERAL ACCOUNT.....		13,500 00
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\$54,123 97

Examined and Approved	{ ANSON W. HARD OGDEN MILLS FREDERICK F. BREWSTER }	{ Auditing Committee
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CROCKER LAND EXPEDITION FUND ACCOUNT

DISBURSEMENTS

1913

<i>Brought forward</i>	\$53,591 18
CASH ON HAND DECEMBER 31, 1913.....	532 79

\$54,123 97

CHARLES LANIER, *Treasurer*

E. & O. E.

NEW YORK, *December 31, 1913*

CORPORATE STOCK ACCOUNT

RECEIPTS

1913

DEPARTMENT OF PARKS..... \$6,692 75

INTEREST ON CREDIT BALANCES:

Earnings to December 1, 1913..... 1 15

\$6,693 90

Examined and Approved { ANSON W. HARD
OGDEN MILLS
FREDERICK F. BREWSTER } *Auditing Committee*

*INCIDENTAL ACCOUNT**

RECEIPTS

1913

RECEIPTS FROM INDIVIDUALS AND SOCIETIES \$3,384 06

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1913..... 3 29

\$3,387 35

Examined and Approved { ANSON W. HARD
OGDEN MILLS
FREDERICK F. BREWSTER } *Auditing Committee*

* The moneys of this account do not form any part of the income proper of the Museum. They simply represent cases in which it is advisable for the Museum to act as agent; for example, the services of attendants at the meetings of the New York Academy of Sciences are paid through this account out of funds supplied by the New York Academy.

CORPORATE STOCK ACCOUNT

DISBURSEMENTS

1913

PAYROLLS OF MECHANICS, ETC..... \$6,692 75

INTEREST ON CREDIT BALANCES:

TRANSFERRED TO INTEREST ON CREDIT
BALANCES, GENERAL ACCOUNT..... 1 15

\$6,693 90

CHARLES LANIER, *Treasurer*

E. & O. E.
NEW YORK, *December 31, 1913*

INCIDENTAL ACCOUNT

DISBURSEMENTS

1913

DISBURSEMENTS FOR INDIVIDUALS AND
SOCIETIES..... \$3,384 06

INTEREST ON CREDIT BALANCES:

TRANSFERRED TO INTEREST ON CREDIT
BALANCES, GENERAL ACCOUNT..... 3 29

\$3,387 35

CHARLES LANIER, *Treasurer*

E. & O. E.
NEW YORK, *December 31, 1913*

FINANCIAL STATEMENT
OF THE
PENSION FUND

1913

INVESTED FUNDS

SECURITIES..... \$5,000 00

PENSION FUND ACCOUNT

RECEIPTS

1913

CONTRIBUTIONS OF SUBSCRIBING EMPLOYEES:

DEDUCTIONS OF 3% FROM PAYROLLS OF

CITY MAINTENANCE ACCOUNT...	\$4,100	14
GENERAL ACCOUNT	1,980	21
SPECIAL FUNDS ACCOUNT	26	55
CORPORATE STOCK ACCOUNT...	98	06
INCIDENTAL ACCOUNT.....	31	70
CROCKER LAND EXPEDITION FUND ACCOUNT	25	94
	\$6,262	63

PERSONAL CONTRIBUTIONS OF SUB- SCRIBING EMPLOYEES.....		203	09	\$6,465	72
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CONTRIBUTIONS OF BOARD OF TRUSTEES, TO EQUAL CONTRIBU- TIONS OF SUBSCRIBING EMPLOYEES				6,465	72
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ENDOWMENT FUND:

TRANSFERRED FROM PENSION FUND, SPECIAL FUNDS ACCOUNT.....				1,083	27
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INTEREST ON CREDIT BALANCES:

EARNINGS TO DECEMBER 31, 1913...				115	09
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\$14,129 80

Examined and { ADRIAN ISELIN, JR. } *Auditing*
 Approved { ANSON W. HARD } *Committee*

PENSION FUND ACCOUNT

DISBURSEMENTS

1913

RETURN OF CONTRIBUTIONS.....	\$189 94	
INTEREST ON CONTRIBUTIONS RETURNED..	96	\$190 90
PURCHASE OF SECURITIES:		
ENDOWMENT FUND.....	1,083 27	
INVESTMENT FUND.....	3,747 08	4,830 35
CASH ON HAND DECEMBER 31, 1913:		
DEPOSITED WITH UNITED STATES TRUST COM- PANY OF NEW YORK.....	8,608 55	
DEPOSITED WITH COLONIAL BANK (BURSAR'S ACCOUNT).....	500 00	9,108 55

\$14,129 80

CHARLES LANIER, *Treasurer*

E. & O. E.

NEW YORK, *December 31, 1913*

LIST OF ACCESSIONS, 1913

DEPARTMENT OF PUBLIC EDUCATION.

By Gift.

AMERICAN PRESS ASSOCIATION, New York City.

Photograph of first boat passing through Gatun Locks, Panama Canal.

W. F. MACGLASHAN, Buffalo, N. Y.

Photograph of a beaver (*Castor canadensis*).

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Photograph each of Przewalsky horse and European buffalo.

PAUL J. RAINEY, New York City.

3 Photographs of a leopard.

J. H. ROHRBACH, Brooklyn, N. Y.

4 Photographs of moth borings, etc.

F. H. SMYTH, New York City.

7 Negatives of the flower show of November, 1913.

By Purchase.

21 Photographs of Pueblos, etc., of the Southwest.

53 Lantern slides of various subjects.

601 Zoölogical specimens for circulating collections.

3 Queen bees for circulating collections.

THROUGH MUSEUM EXPEDITION.

38 Negatives of anthropological material obtained by E. H. Thompson in Yucatan.

DEPARTMENT OF MINERALOGY.

By Gift.

MATILDA W. BRUCE FUND.

91 Specimens of Minerals.

D. E. AMARINI, Mason, Tex.

1 Specimen Quartz, Mason.

CAPTAIN ANDREWS, New York City.

1 Specimen Graphite, Putnam, N. Y.

F. H. CHASE, New York City.

1 Specimen Wire Silver, Lembi Co., Idaho.

DEPARTMENT OF GEOLOGY, transfer.

Large, slightly colored stalactitic mass, Copper Queen Mine, Bisbee, Ariz.

A. D. GABAY, New York City.

1 Specimen Limonite, 1 Opal, 1 Cuprite, 1 polished slab Labradorite.

GERMAN KALI WORKS, New York City.

1 Jar each of Kainite, Muriate of Potash and Manure Salt, and 1 jar containing Sylvinite, Carnallite, Polyhalite, Steinsalz, Sylvine, Kainite and Hartsalz.

WALTER GRANGER, Brooklyn, N. Y.

2 Specimens Barite, San Juan Co., N. Mex.

TADASU HOKI, Kyoto, Japan.

5 Specimens native Arsenic, 6 specimens Quartz, 46 specimens Topaz, Japan.

B. E. HOOVER, New York City.

1 Specimen Chalcedony replacing dinosaurian femur.

M. E. KLECKNER, Tiffin, Ohio.

1 Specimen Calcite, Fostoria, Ohio.

D. S. MARTIN, Brooklyn, N. Y.

3 Specimens Tourmaline, Toe River, Nelson Co., Va.

JOSEPH E. MESSENGER, New York City.

Collection of minerals.

FRANCIS C. NICHOLAS, Carbo, Sonora, Mex.

1 Specimen Quartz, Mexico.

GEORGE OLSEN, New York City.

9 Specimens of wood coated with concretionary Chalcedony and 1 piece Quartz crystallized in bone cavity, Alberta.

E. J. PAGE, Syracuse, N. Y.

2 Specimens Peridotite, Syracuse.

H. PAPKE, West Hoboken, N. J.

Specimen Pectolite enclosed in amethystine ring, Great Notch, N. J.

M. STANLY SCOTT, Ridgefield, Conn.
Dendritic Feldspar from quarry worked for Feldspar Mica, near Ridgefield.

J. L. SPICER, New York City.
Miscellaneous specimens of Slate, Calcite and Slickensides, Saratoga, N. Y.

J. W. STALKER, Ludlow, Cal.
Specimen Infusorial Earth, Esmeralda Co., Nev.

MRS. JOHN STEMME, New York City.
Agatized Wood, Apache Co., Ariz.

KIRBY THOMAS, New York City.
Specimen Wulfenite, Utah.

B. M. THURSTON, Floral Park, L. I.
Pyritiferous Slate, Floral Park, L. I.

BY EXCHANGE.

LAZARD CAHN, New York City.
14 Specimens of Minerals, various localities.

H. C. JENKINS, New York City.
1 Specimen Chabazite, Upper Montclair, N. J.

J. P. LABAN, Trenton, N. J.
Aurichalite, Beaver Co., Utah.
Tetrahedrite, Big Bone Canyon, Utah.

A. H. PETEREIT, New York City.
9 Specimens of Minerals, various localities.

MILTON G. SMITH, New York City.
Pink Beryl, California.

BY PURCHASE.

43 Specimens of Minerals, various localities.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

MAMMALS.

BY GIFT.

H. E. ANTHONY, New York City.
Black-tailed Jack Rabbit, Montauk, L. I.

A. L. BAKER, Forest Hills Gardens, L. I.
Mole.

W. H. BERGTOLD, Denver, Colo.
5 Skins and skulls of small mammals, New Mexico.

HOWARTH S. BOYLE, Elmhurst, L. I.
Mole, Jamaica, L. I.; Weasel, Monticello, N. Y.

ROBERT BROOM, Springs, Transvaal, South Africa.

17 Skulls, 1 skeleton and 3 alcoholic specimens of insectivores and 2 skulls Steinbok, South Africa.

BARNUM BROWN, New York City.
1 skeleton, dried in the flesh, and 1 skull of Weasel, and skull of Porcupine, Alberta.

MRS. T. D. CROMBIE, Catskill, N. Y.
Mounted Mink.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY, transfer.

Fragmentary skull of Shrew from stomach of fish, Canada.

DEPARTMENT OF ORNITHOLOGY, transfer.
2 Bats, skulls and skins, Bogota, Colombia.

DEPARTMENT OF PARKS, New York City.

13 Monkeys, 1 Albino Rabbit, 1 baby Tiger, 2 Lion cubs, 1 young Lion, 1 Lioness, 1 Jackass, 1 Black Leopard, 1 Axis Deer, 1 Red Deer, 2 Black Bears, 1 Elk, 1 young Zebu, 1 Angora Goat, 2 Marmosets, 1 Raccoon.—Total, 31 specimens received in the flesh from the Central Park Menagerie.

S. D. DILL, Newport, N. S.
Albino Rabbit, in the flesh, Newport, N. S.

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

H. P. ERSKINE, New York City.
2 Skins and skulls of Ratal, skin and skull of Aard Wolf and skin and skull of Dog, Laikipia, Africa.

MR. FERENBACH.
Nasua, in the flesh.

MISS FESSENDEN, New York City.
Mounted heads of Moose, Virginia Deer, Caribou and Red Fox.

DWIGHT FRANKLIN, New York City.
Bat and Ground Squirrel, Arizona.

J. R. GAREIS, New York City.
Bat, in the flesh.

W. W. GRANT, Englewood, N. J.
Skin of Sloth, Costa Rica.

ELI HARVEY, New York City.
Greyhound.

- A. B. HEPBURN, New York City.
Skin and skull of Topi Antelope,
British East Africa.
- ANDREW JOHNSTONE, New Durham,
N. J.
Bat, in the flesh.
- KAYE & EINSTEIN, New York City.
2 Skins of Weasel, Siberia.
- A. J. KLEIN, Nairobi, B. E. A.
2 Specimens of young Giant Pig in
formaldehyde.
- HARVEY LADEW, Glen Cove, L. I.
Stuffed skin of Dugong, Red Sea.
- S. N. LEEK, Jackson, Wyo.
3 Colored photographs of Elk, Jack-
son's Hole, Wyo.
- APOLINAR MARIA, Bogota, Colombia.
Bat, Colombia.
- W. DE W. MILLER, Plainfield, N. J.
2 Skins and 2 skulls of Squirrels,
Silver City, N. Mex.
- NEW YORK ZOÖLOGICAL SOCIETY, New
York City.
1 Andes Black Bear, 1 Spectacled
Bear, 1 Indian Antelope, 1 Elk,
1 Echidna, 1 Axis Deer, 1 Capy-
bara, 1 Grison, 2 Himalayan
Tahrs, 1 Vicuna, 1 Wombat, 1
Mouflon, 2 Muskoxen, 2 Tas-
manian Devils, 3 Rocky Mountain
Goats, 2 Giraffes, 1 Sloth, 1
Leopard, 1 African Leopard, 1
Clouded Leopard, 1 Snow Leap-
ard, 2 Porpoises.—Total 29 speci-
mens received in the flesh from
the New York Aquarium and the
New York Zoölogical Park.
- JOHN T. NICHOLS, Englewood, N. J.
Bat, in the flesh.
- G. KINGSLEY NOBLE, Yonkers, N. Y.
Jumping Mouse, and Star-nosed Mole
in alcohol, Yonkers.
- MRS. C. C. O'HARA, New York City.
Blooded Yorkshire Terrier, in the
flesh.
- PAUL J. RAINEY, New York City.
87 Specimens of mammals, skins,
skulls and skeletons, British East
Africa.
- MISS H. E. RIPLEY, New York City.
Bat, in the flesh.
- THEODORE ROOSEVELT, Oyster Bay, L. I.
3 Cougar skulls.

- J. B. THOMAS, New York City.
Russian Wolf Hound, "Bistri," in the
flesh.
- FREDERICK K. VREELAND, New York
City.
Skin of Stone's Mountain Sheep,
British Columbia.
- FRANK WOOD, New Bedford, Mass.
Skull of Dolphin.

BY EXCHANGE.

- BRITISH MUSEUM OF NATURAL HISTORY,
London, England.
78 Specimens of small mammals, Eng-
land.
- FIELD MUSEUM OF NATURAL HISTORY,
Chicago, Ill.
65 Small mammals, skins and skulls.
- MUSEUM OF COMPARATIVE ZOÖLOGY,
Cambridge, Mass.
10 Specimens of Mice, Colombia; 4
skins and skulls of Rodents, Little
Swan Island and Siberia; 10 small
mammals and 1 Water Deer, Asia.
- SCOTTISH OCEANOGRAPHICAL LABORATORY,
Edinburgh, Scotland.
Skeleton of Weddell's Seal.
- TAIWAN SOTOKUFU CHUGAKKO, For-
mosa, Japan.
Mounted specimen of Pangolin,
Skinko, Japan.
- FRANK WOOD, New Bedford, Mass.
1 Pair of Walrus tusks.

BY PURCHASE.

- Skin and skull of Water Rat, Colomb-
bia.
- 1 Mounted specimen, 2 skulls and 1
skeleton of Porpoise, Sagami.
- 7 Rabbits, Ironside, Oreg.
- 1 Lot of Fruit Bats and accessories,
Philippine Islands.
- 5 Porcupines, Canada.
Albino Muskrat for Darwin Hall.
- 87 Skins and skulls of mammals, Bo-
gota, Colombia.
- Skin and skeleton of *Zaglossus*,
Arapah Mts., Dutch New Guinea.
- 149 Mammals, Ecuador.
- Skin and skull of *Gymnura*, Sarawak.
- 57 Mammals, northern China.
- Skin, skull and leg bones of Albino
Skunk.

THROUGH MUSEUM EXPEDITIONS.

- Fœtal Hooded Seal and 2 Shrews (alcoholic), Arctic America. Collected by R. M. Anderson.
- 36 Mammals, Colorado. Collected by A. E. Butler.
- 96 Mammals, Colombia, South America. Collected by Frank M. Chapman.
- 48 Mammals, British Guiana, and 71 mammals, Colombia. Collected by Leo E. Miller.
- 129 Mammals, British East Africa. Collected by W. S. Rainsford.

BIRDS.

BY GIFT.

- EDWARD B. ALDRICH, New York City.
Skin of Bird of Paradise.
- ANONYMOUS,
1 Woodcock, 1 Hummingbird and 6 song-birds, in the flesh.
- MISS MYRA BAYLEY, New York City.
Parrot.
- DAVID BLASCHKE, Yonkers, N. Y.
Woodpecker and song-bird, in the flesh.
- ALEX. BERGHANS, New York City.
Duck.
- B. S. BOWDISH, Demarest, N. J.
Macaw, in the flesh.
- HOWARTH S. BOYLE, Elmhurst, L. I.
2 Song-birds, in the flesh.
- JOSÉ CARREIA, Grytviken, Cumberland Bay, South Georgia.
2 Petrels.
- JOHN CHAPMAN, Anvik, Alaska.
Song-bird.
- C. R. COMES, New York City.
Nest of Hummingbird.
- JOHN C. DEDELL, Brooklyn, N. Y.
Mounted Owl in glass case.
- DEPARTMENT OF PARKS, New York City.
1 Pheasant, 1 Peacock, 1 Turkey, 1 Gull, 17 Swans, 1 Goose, 1 Duck, 1 Vulture, 1 Osprey, 4 Owls, 1 Cockatoo, 7 Parrots.—Total, 37 specimens received in the flesh from the Central Park Menagerie.

- DIVISION OF FISH AND GAME, CONSERVATION COMMISSION, STATE OF NEW YORK, New York City.
Barn Owl and 2 song-birds.
- SEÑORITA ANGELA DE QUESADA, Camagüey, Cuba.
Mounted Parrot.
- RICHARD DONKER, New York City.
Parrot, in the flesh.
- H. RIEMAN DUVAL, New York City.
2 Mounted Pigeons.
- JONATHAN DWIGHT, JR., New York City.
Auk, in the flesh.
- WILLIAM FLOYD, Mastic, L. I.
2 Ducks and 4 Sandpipers, in the flesh.
- W. W. GRANT, Englewood, N. J.
159 Birdskins from United States, Costa Rica, Panama and England;
2 Man-o'-war-birds and 1 Duck.
- MISS E. GREGORY, New York City.
Nest of Oriole.
- A. O. HEINRICH, Baldwin, N. Y.
2 Hawks and 1 Owl, in the flesh.
- F. SEYMOUR HERSEY, Taunton, Mass.
Trupial.
- GEORGE E. HIX, New York City.
Song-bird, in the flesh.
- ELIZABETH K. HUGHES, Copper Hill, N. J.
Egg of Rhea from Paraná, Brazil.
- LEON LOFT, Baldwin, N. Y.
Hawk, in the flesh.
- MRS. A. F. LOWERRE, Southold, N. Y.
Warbler, in the flesh.
- MRS. MARION MACGREGOR, New York City.
Mounted Gambel's Quail (albinistic).
- EDWARD MCGALL, Orange, N. J.
Bones of extinct Petrel, Bermuda.
- APOLINAR MARIA, Bogota, Colombia.
12 Birdskins, Bogota.
- MRS. MARRER, New York City.
18 Mounted birds in glass bell case.
- MRS. MINNIE MEYROWITZ, New York City.
Goose egg.
- W. DE W. MILLER, Plainfield, N. J.
Song-bird and young Ruffed Grouse, in the flesh.
- MRS. EDWARD MOEN, New York City.
Parrot.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

2 Chachalaca, 1 Curassow, 1 Guan, 1 Ostrich, 4 Partridges, 1 Sand Grouse, 11 Pigeons, 1 Loon, 1 Gull, 1 Oyster-catcher, 1 Thick-knee, 2 Bustards, 2 Trumpeters, 1 Burmeister's Seriema, 1 Stork, 1 Boat-bill, 2 Black-necked Screammers, 3 Flamingos, 1 Swan, 5 Ducks, 1 California Condor, 1 South American Condor, 1 Vulture, 2 Hawks, 1 Eagle, 2 Owls, 13 Parrots, 2 Rollers, 1 Kingfisher, 1 Hornbill, 1 Motmot, 3 Plantain-eaters, 2 Cuckoos, 2 Woodpeckers, 1 Bell-bird, 33 song-birds.—Total, 110 specimens received in the flesh from the New York Zoological Park.

JOHN TREADWELL NICHOLS, Englewood, N. J.

Heron and song-bird, in the flesh.

MRS. J. W. T. NICHOLS, New York City.

Plumage from Herons, Parakeet and Pelican.

W. B. NICHOLS, Mastic, L. I.
Sandpiper, in the flesh.

G. KINGSLEY NOBLE, Yonkers, N. Y.
2 Sandpipers, in the flesh.

FREDERICK W. PATTERSON, Dumont, N. J.
Song-bird, in the flesh.

T. GILBERT PEARSON, New York City.
Waxwing, in the flesh.

WM. B. RIVES, Washington, D. C.
13 Song-birds and 1 Woodpecker, Virginia.

C. H. ROGERS, New York City.
8 Birdskins, England.

LOUIS RUHE, New York City.
1 Pigeon, 1 Duck, 2 Parrots, 1 Cockatoo, 1 Curlew, 7 song-birds, in the flesh.

L. C. SANFORD, New Haven, Conn.
1 Woodpecker, 1 Owl and 1 mounted Sheath-bill.

MRS. E. B. SMALLWOOD, Astoria, N. Y.
Collection of nests, eggs and birdskins, eastern North American species.

D. C. STAPLETON, Bogota, Colombia.
1,127 Skins of Hummingbirds.

GRAHAM SUMNER, Englewood, N. J.
Skin of Hooded Merganser.

MARTIN THEW, La Grangeville, N. Y.
Hawk, in the flesh.

HENRY THURSTON, Floral Park, L. I.
1 Heron, 1 Hawk, 1 Grebe, 2 Sandpipers and 26 song-birds.

C. H. TOWNSEND, New York City.
Hawk and Owl, in the flesh.

S. M. VAN ALLEN, Jamaica, N. Y.
Plover mounted for Albino case.

JUSTUS VON LENGERKE, New York City.
23 Hawks, in the flesh.

J. L. WATT, Scarsdale, N. Y.
Crowned Crane, in the flesh.

MRS. WHITE, New York City.
Parrot, in the flesh.

CHARLES WUNDER, Dundee Lake, N. J.
3 Skins of song-birds.

SARAH D. WYCKOFF, Wilkes-Barre, Pa.
Rail, in the flesh.

BY EXCHANGE.

HENRY K. COALE, Highland Park, Ill.
26 Birdskins.

GEORGE W. HOLLISTER, New York City.
3 Falcons.

MICHIGAN AGRICULTURAL COLLEGE, East Lansing, Mich.
9 Birdskins, Chile.

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.

4 Song-birds, 2 Ducks, 1 Cotinga.

SCOTTISH OCEANOGRAPHICAL LABORATORY, Edinburgh, Scotland.
Mounted Emperor Penguin.

TAIWAN SOTOKUFU CHUGAKKO, Formosa, Japan.
5 Birdskins.

ABBOTT H. THAYER, Monadnock, N. H.
1 Grouse, 1 Motmot and 2 song-birds.

BY PURCHASE.

17 Birdskins, Southampton Island.
Eagle, in the flesh.

1 Domestic fowl having three legs.

549 Birdskins, Bogota, Colombia.

1,442 Birdskins, Manavi, Ecuador.

17 Models showing development of chick in egg.

THROUGH MUSEUM EXPEDITIONS.

- 177 Birdskins, Korea. Collected by Roy C. Andrews.
 32 Birdskins, Colorado. Collected by A. E. Butler.
 1,732 Birdskins, 1 skeleton and 5 sterna, Colombia, South America. Collected by Frank M. Chapman, Geo. K. Cherrie and others.
 1,132 Birdskins, British Guiana. Collected by Leo E. Miller.
 1,451 Birdskins, Ecuador. Collected by William B. Richardson.
 995 Birdskins, Venezuela. Collected by Leo E. Miller.

THROUGH LOCAL COLLECTING.

- 17 Sandpipers and 3 song-birds.

DEPARTMENT OF VERTEBRATE
PALÆONTOLOGY.

BY GIFT.

ROBERT BROOM, Springs, Transvaal, South Africa.

Upper jaw fragment with teeth of *Equus capensis* Broom, Middelburg, Cape Colony, South Africa.

H. K. BUSH-BROWN, Washington, D. C.
 Skeleton of Arabian Horse.

F. H. CHASE, New York City.
 Mammoth tooth, Kongarock River, Seward Peninsula, Alaska.

DEPARTMENT OF PARKS, New York City.
 Head and front feet of Ass.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

Zebra, in the flesh.

MORTIMER ROSENBERG, JACOB and ISIDOR SCHWARTZ, New York City.

Head of femur of Bison, subway excavation, Lexington Avenue and Ninety-third Street, New York City.

THOMAS WHITE CO., New York City.
 2 Sets of Horse feet.

BY EXCHANGE.

GEOLOGICAL SURVEY OF INDIA, Calcutta, India.

Collection of fossil mammals and casts, Tertiary formation of India.

PFABODY MUSEUM, New Haven, Conn.

Casts of skulls of type specimens of two Eocene mammals, *Tillotherium fodiens* and *Colonoceras agrestis*.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

Cast of type of *Placerias hesternus*.

UNIVERSITY OF WYOMING, Laramie, Wyo.
 Casts of Plesiosaur fore limb (*Megal-neusaurus*).

BY PURCHASE

Calf head.

Skeleton of Permian Reptile, Karroo terrane, near Beaufort West, Cape Colony.

2 Skulls of *Zeuglodon*, Fayûm district, Egypt.

Skeletons of *Tragulus*, *Loris* and *Manis*, Ceylon.

THROUGH MUSEUM EXPEDITIONS.

43 Cretaceous Dinosaurs, Belly River formation of Alberta. Collected by Barnum Brown.

473 Fossil mammals, Paleocene (Puerco and Torrejon formations) and Eocene (Wasatch formation) of New Mexico. Collected by Walter Granger.

87 Fossil mammals, Lower Eocene (Wasatch formation) of Wyoming. Collected by William Stein.

5 Skeletons of *Moropus*, Lower Miocene (Harrison beds) of Nebraska. Collected by Albert Thomson.

DEPARTMENT OF ICHTHYOLOGY
AND HERPETOLOGY—FISHES.

BY GIFT.

CLEVELAND H. DODGE FUND.

8 Exhibition jars developmental series of fishes; 5 mounted fishes, Pacific coast of United States; 5 Lungfishes, Australia; 35 specimens Arthrodires, chiefly *Dinichthys* and *Titanichthys*, Cleveland shale of Ohio; 1 *Edestus heinrichsi*, Mystic, Iowa; 1 *Lampris*, 1 *Pegasus* and 2 *Solenostomus*, Japan; 2 Singlefish and 2 other fishes; 3 Fierasfer; 10 Sea Horses; 2 *Lepidopus*; 6 Fossil fishes, Turin Hill, near Forfar, Scotland; 1 large *Lepidotus*, 1 *Lep-tolepis voithi* and 1 *Leptolepis sprattiformis*, Solenhofen, Bavaria; 2 small Guitarfish, Florida.

- R. M. ANDERSON, New York City.
11 Fishes, Arctic America.
- HOWARTH S. BOYLE, Elmhurst, L. I.
Fundulus, Flushing, L. I.
- W. L. BRIND, New York City.
35 Aquarium fishes.
- BROOKLYN AQUARIUM SOCIETY, Brooklyn, N. Y.
55 Aquarium fishes.
- ROBERT BROOM, Springs, Transvaal, South Africa.
Pair of jaws of Dogfish, South Africa.
- WM. A. CHAPMAN, Troy, N. Y.
Young Salmon, Nova Scotia.
- MORTON L. CHURCH, Marshall, N. C.
10 Freshwater fishes, Marshall, N. C.
- RUSSELL J. COLES, Danville, Va.
314 Fishes, Cape Lookout, N. C.
- JOHN D. CRIMMINS, New York City.
Mounted Silverfish, Palm Beach, Fla.
- DEPARTMENT OF ANTHROPOLOGY, transfer.
Semionotus ovatus, Boonton, N. J.
- DEPARTMENT OF INVERTEBRATE ZOOLOGY, transfer.
55 Toothcarp, Cuba.
- DEPARTMENT OF ORNITHOLOGY, transfer.
30 Characinids, British Guiana.
- DEPARTMENT OF VERTEBRATE PALEONTOLOGY, transfer.
2 Fossil shark vertebrae and fragments of spines, South Dakota and Montana; scales of fossil Gar Pike, New Mexico; fragments of jaws of *Amia*, Wyoming.
- RICHARD DONKER, New York City.
2 Pickerel.
- RICHARD DORN, New York City.
4 Fishes, South America.
- C. R. EASTMAN, Pittsburgh, Pa.
Several lots of fossil fish remains.
- SARAM R. ELLISON, New York City.
Shark tooth, Culebra Cut, Panama Canal.
- MAXIMILIAN FOSTER, New York City.
Brook Trout, Rangeley, Me.
- CHAPMAN GRANT, Brooklyn, N. Y.
5 Fishes, Florida Keys.
- W. W. GRANT, Englewood, N. J.
Weever.
- E. W. GUDGER, Greensboro, N. C.
Embryo of Sting Ray, Boca Grande, Fla.
- G. G. HEYE, New York City.
Toothcarp, Hayti.
- G. E. HIX, New York City.
2 *Cyprinodon*, Belmar, N. J.; 5 *Fundulus*, Long Beach, L. I.
- R. D. O. JOHNSON, New York City.
Mounted Flying Gurnard, Jamaica, W. I.
- FRED KESSLER, New York City.
12 Local fishes.
- WILLIAM MACK, New York City.
29 Fishes, Germany, India and Japan.
- JAMES MULLEN, New York City.
Trunkfish, Bermuda.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
3 Sharks, 1 Snapper, 1 Shark Sucker, 1 Parrot Fish, 12 Albino Trout, 1 Glass-eyed Snapper, 1 Triggerfish, Belford, N. J., 1 Striped Bass.—
Total 21 specimens, received from the New York Aquarium.
- JOHN T. NICHOLS, Englewood, N. J.
60 Young fishes, Mastic, L. I.; 2 Fishes, Cholera Banks, L. I.
- GEORGE OLSEN, New York City.
8 Fishes, Alberta.
- H. J. PARKER, New York City.
2 Photographs and negatives of Sunfish, Santa Catalina.
- LEON W. PERKINS, Ogunquit, Me.
Pipefish, Ogunquit.
- WM. B. ROGERS, Pointe-à-Pic, Canada.
2 Skins of Marston's Trout.
- JOSÉ SANTA ANA, JR., Todos Santos, Lower California.
Frog fish, Todos Santos.
- MRS. EUGENE SMITH, Hoboken, N. J.
250 Fishes.
- H. F. STONE, Lawrence, L. I.
Partial Skeleton of Angler, Mastic, L. I.
- BYRON THURSTON, Floral Park, L. I.
2 Sea Horses, Freeport, L. I.
- HENRY THURSTON, Floral Park, L. I.
Needlefish, Freeport, L. I.
- WM. WIEGMANN, New York City.
10 Local fishes.

BY EXCHANGE.

ACADEMY OF NATURAL SCIENCES, Philadelphia, Pa.
17 Black Bass.

CORNELL UNIVERSITY, Ithaca, N. Y.

6 Fishes, Beaufort, N. C.

E. FRAAS, Stuttgart, Germany.

10 Fish teeth and spines, Triassic of
Württemberg, Germany.

ROYAL SCOTTISH MUSEUM, Edinburgh,
Scotland.

Pegasus.

QUEENSLAND MUSEUM, Brisbane, Aus-
tralia.

11 Species of fishes, Queensland.

TAIWAN SOTOKUFU CHUGAKKO, For-
mosa, Japan.

5 Fishes, Japan.

BY PURCHASE

Pharyngeal teeth of large Drumfish.

THROUGH MUSEUM EXPEDITIONS.

242 Fishes, Cuba; *Carcharhinus ob-
scurus* and *Pomatomus saltatrix*,
New York Bay; 2 Fishes, Sea
Bright, N. J. Collected by John T.
Nichols.

AMPHIBIANS AND REPTILES.

BY GIFT.

CLEVELAND H. DODGE FUND.

1 Chinese Alligator and specimens for
exhibition showing life history of
5 Toads, 1 Cœcilian, 3 Salamanders,
1 Frog, 1 Snake, 1 Lizard, 1 Turtle
and 1 Alligator.

ARTHUR D. ATWOOD, Tenafly, N. J.
Snake.

C. WILLIAM BEEBE, New York City.

3 Lizards, Central Garhwal.

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

2 Snakes, New Jersey.

HOWARTH S. BOYLE, Elmhurst, L. I.

4 Cricket Frogs and 3 Salamanders,
Jamaica, L. I.

ROBERT BROOM, Springs, Transvaal,
South Africa.

30 Amphibians, 11 Snakes, 10 Lizards,
Australia and South Africa.

BARNUM BROWN, New York City.

Toad, Tree Frog and Snake, Red Deer
River, Alberta.

A. E. BUTLER, New York City.

Tree frog, Estes Park, Colo.

COLORADO MUSEUM OF NATURAL HISTORY,
Denver, Colo.

15 Salamanders, Colorado.

WILLIAM T. DAVIS, New Brighton, N. Y.

Tree Frog, Lakehurst, N. J.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY,
transfer.

Cricket Frog, Pinar del Rio, Cuba.

DEPARTMENT OF MAMMALOGY, transfer.
Frog, Alberta.

DEPARTMENT OF PARKS, New York City.
Turtle and 4 Snakes.

R. DONKER, New York City.

6 Salamanders.

J. R. K. FITZPATRICK, New York City.

3 Snakes, New York and New Hamp-
shire.

G. G. HEYE, New York City.

2 Snakes, Haiti.

PAUL KIBLER, San Francisco, Cal.

1 Tree Frog, 5 Snakes and 6 Lizards,
Amboy, N. J.

NEW YORK ZOÖLOGICAL SOCIETY, New
York City.

3 Salamanders, 12 Toads, 4 Frogs,
1 Caiman, 5 Crocodiles, 3 Turtles,
23 Lizards and 52 Snakes.—Total,
103 specimens received from the
New York Zoological Park and the
New York Aquarium.

G. KINGSLEY NOBLE, Yonkers, N. Y.

Tree Frog, Yonkers.

HOWARD NOTMAN, Brooklyn, N. Y.

Salamander, Keene Valley, N. Y.

B. S. OPPENHEIMER, New York City.

3 Lizards, Colombia and Central
America.

WILLIAM OSBORN, Princeton, N. J.

Salamander, Garrison, N. Y.

PAUL R. D. RÜTHLING, Los Angeles,
Cal.

Salamander, California; Lizard, Ne-
braska.

MRS. EUGENE SMITH, Hoboken, N. J.

Collection of Amphibians and Reptiles
of the late Eugene Smith.

A. E. VINSON, Tucson, Ariz.

Lizard and Snake, Arizona.

WILLIAM WARFIELD.

1 Tree Frog and 3 Snakes, George-
town, British Guiana.

MRS. H. WISCHKAEMPER, New York
City.

2 Snakes, Johannesburg, South Africa.

BY EXCHANGE.

T. KIMURA, Formosa, Japan.
5 Frogs, 6 Lizards, 4 Snakes and 2
Turtles, Japan.

MUSEUM OF COMPARATIVE ZOÖLOGY,
Cambridge, Mass.

2 Hairy Frogs, Kamerun, Africa.

QUEENSLAND MUSEUM, Brisbane, Aus-
tralia.

4 Lizards, 3 Snakes and 2 Turtles,
Australia.

JOHN VAN DENBURGH, San Francisco,
Cal.

4 Toads, 11 Lizards and 2 Snakes.

BY PURCHASE.

3 Salamanders, 16 Toads, 14 Tree
Frogs, 12 Frogs, 7 Lizards, 2 Snakes,
6 Turtles.

THROUGH MUSEUM EXPEDITIONS.

1 Lizard and 11 Snakes, Arizona.
Collected by Dwight Franklin.

DEPARTMENT OF INVERTE-
BRATE ZOÖLOGY—INVERTE-
BRATES.

BY GIFT.

G. W. J. ANGELL, New York City.
2 *Gibbium scotias* and a collection of
Coleoptera.

F. C. BACHELLER, Freneau, N. J.
Penciled Rock Hen for Darwin Hall.

NATHAN BANKS, East Falls Church, Va.
46 Neuropteroid insects.

H. G. BARBER, Roselle Park, N. J.
Collection of local insects; 1 Lantern-
fly, British Guiana.

C. WM. BEEBE, New York City.
Fleas and mites, India.

HENRY BIRD, Rye, N. Y.
Paratype of *Papaipema lysimachia*
Bird.

H. H. BREHME, Newark, N. J.
Collection of Lepidoptera.

ROBERT BROOM, Springs, Transvaal,
South Africa.

4 Specimens of Hermit Crab in com-
mensalism with actinians, and 1
specimen of *Peripatus*, South Africa.

BARNUM BROWN, New York City.
Invertebrates, Red Deer River, Al-
berta.

A. E. BUTLER, New York City.
Collection of insects, Estes Park, Colo.

DOMENIC CALARCO, New York City.
Silkworm cocoons, Podargoni, Reggio
Calabria, Italy.

LOUIS JAMES CAST, New York City.
Red Beard Sponge, City Island, N. Y.

R. BUDD CHALMERS, Philadelphia, Pa.
16 Sponges.

B. PRESTON CLARK, Boston, Mass.
68 Lepidoptera, Guerrero Mill, Hidal-
go, Mex.; 48 Lepidoptera, Alberta.

S. R. CLARK, Scotch Plains, N. J.
Pair Single Comb White Orpington
Fowl for Darwin Hall.

RUSSELL J. COLES, Danville, Va.
Box Crab, Cape Lookout, N. C.

WM. P. COMSTOCK, Newark, N. J.
2 Paratypes of *Strymon titus* var.
immaculosus, Utah.

RICHARD CRIKELAIR, Los Angeles, Cal.
Trapdoor Spider nest, Los Angeles.

EUGENIO CUESTA, Pinar del Rio, Cuba.
7 Coleoptera.

J. CUMMINGS, Brooklyn, N. Y.
Insect and 2 shells, Santos, Brazil.

PERCY HAMILTON DAVIS, Rye, N. Y.
300 Insects, mostly Lepidoptera, Java.

WM. T. DAVIS, New Brighton, N. Y.
Collection of Coleoptera, Hymenop-
tera and numerous other insects, in-
cluding paratype of *Enallagma re-
curvatum* Davis.

T. H. N. DEBOUY, New York City.
Collection of insects and myriapods,
Saona Island at eastern point of
Haiti.

DEPARTMENT OF ICHTHYOLOGY, transfer.
Myriapods and isopods, New York and
New Jersey.

J. J. DEVYVER, Mt. Vernon, N. Y.
Log containing beetle larvæ.

JACOB DOLL, Brooklyn, N. Y.
24 Variations of *Junonia cania* and
50 variations of *Utetheisa bella*.

R. P. DOW, Brooklyn, N. Y.
Coleoptera and Thysanaptera.

- H. G. DYAR, Washington, D. C.
Lepidoptera.
- J. H. EMERTON, Boston, Mass.
Large collection of spiders, including types of new species.
- GEORGE P. ENGELHARDT, Brooklyn, N. Y.
Coleoptera and Hymenoptera; Acacia spine which had been inhabited by ants from Guatemala.
- G. CLYDE FISHER, New York City.
Collection of insects, Cornelia, Ga.
- W. T. M. FORBES, Worcester, Mass.
2 Insects, Lakehurst, N. J.
- DWIGHT FRANKLIN, New York City.
Myriapoda, Arizona; several parasites from a chameleon.
- B. R. FRISBIE, Yonkers, N. Y.
Sponge, Japan.
- CHAPMAN GRANT, Brooklyn, N. Y.
Hydroid, Key West, Fla.
- GEORGE M. GREENE, Philadelphia, Pa.
Coleoptera and Diptera.
- GAYLORD C. HALL, New York City.
3 Insects, Lake Mashipagong, N. J.
- C. E. HANAMAN, Troy, N. Y.
2 Microscopic slides, radiolarians and *Synapta*, and one vial of radiolarians, Barbados, West Indies.
- EDWARD D. HARRIS, New York City.
Collection of Cicindelidæ and other insects, Twilight Park, Catskill Mts., and other localities.
- IMPERIAL AGRICULTURAL EXPERIMENT STATION, Tokyo, Japan.
23 Vials of Scale insects, Japan.
- MRS. J. B. KERR, New York City.
Pteropod Mollusk, Wainscott Beach, L. I.
- FRED KESSLER, New York City.
2 Horseshoe Crabs; myriapods, insects, arachnids and other invertebrates, New York City.
- PAUL KIBLER, San Francisco, Cal.
Collection of insects, myriapods and crustaceans, Arpah Mts., New Guinea.
- G. B. KING, Lawrence, Mass.
125 Coleoptera, Hungary; 200 Coleoptera, New England; 4 vials of other insects.
- C. W. LENG, New York City.
Coleoptera, other insects and spiders.
- C. W. LENG, JR., New Brighton, N. Y.
Whirligig Beetle, West New Brighton, N. Y.
- MR. LEONORI, New York City.
Lobster.
- L. A. MACDONALD, Houston, Tex.
Spider from Winfree, Tex.
- WM. H. MARDOCK, New York City.
Coleoptera, Para, Brazil.
- HARRY L. MARKER, New York City.
Insects, Java.
- RICHARD MARONE, New York City.
Madrepores, millepores, echinoderms and shells, Colombia.
- MARVIN H. MEAD, Passaic, N. J.
21 Insects.
- H. W. MERKEL, New York City.
Log containing insect larvæ.
- W. DE W. MILLER, Plainfield, N. J.
3 Insect Parasites, Sussex Co., N. J.
7 Insects, Matawan, N. J.
- WM. H. MILLER, Englewood, N. J.
Butterfly.
- RUSSELL H. MILLWARD, Belize, B. H.
Collection of invertebrates, Yucatan, Mexico and British Honduras.
- MRS. WM. A. MORIARTY, New York City.
3 Sponges, Spring Lake, N. J.
- ROBERT C. MURPHY, Brooklyn, N. Y.
Serpulid burrows, St. Vincent, Cape Verde Islands; 6 Molluscs, Portsmouth, Dominica.
- ARTHUR H. MYERS, Brooklyn, N. Y.
1 Buff Wyandotte and 1 White Leghorn for Darwin Hall.
- MRS. J. E. NEWCOMB, New York City.
2 Coral specimens, Rio de Janeiro, Brazil.
- FRANCIS C. NICHOLAS, New York City.
1 Scorpion and several dipterous pupæ, Carbo, Sonora, Mex.
- J. T. NICHOLS, Englewood, N. J.
Insects and spiders, Cuba.
- G. KINGSLEY NOBLE, Yonkers, N. Y.
Prawn, Fire Island, N. Y.

- HOWARD NOTMAN, Brooklyn, N. Y.
Myriapods, Keene Valley, N. Y.
- G. H. F. NUTTALL, Cambridge, England.
37 Ticks.
- MISSES OLCOTT, New York City.
Venus Flower Basket Sponge, Iloilo,
P. I.
- MRS. G. PARMELEE, New York City.
Beetle, Cuba.
- J. C. PUNDERFORD, Freneau, N. J.
Single Comb Buff Leghorn Chicken
for Darwin Hall.
- CHARLES T. RAMSDEN, Guantanamo,
Cuba.
246 Insects, Cuba.
- SAMUEL ROBERTS, Key West, Fla.
Squid, Key West.
- WIRT ROBINSON, West Point, N. Y.
Tarantula and 65 beetles; *Psychio*
case, La Cascador, Canal Zone.
- C. H. ROGERS, New York City.
Collection of insects and spiders,
Europe.
- PAUL R. D. RÜTHLING, Los Angeles,
Cal.
Myriapods, isopods, arachnids and in-
sects.
- JOHN W. SHERMAN, JR., Mt. Vernon,
N. Y.
Water Beetles, Labrador.
- ERNEST SHOEMAKER, Brooklyn, N. Y.
Coleoptera and other insects.
- GEORGE SILLY, New York City.
Echinoderms and molluscs, West In-
dies.
- CHARLES SLEIGHT, Paterson, N. J.
Coleoptera.
- MRS. EUGENE SMITH, Hoboken, N. J.
Insects and crustaceans from various
localities.
- SNARE & TRIEST Co., New York City.
4 Specimens of piles and planking
showing damage by *Teredo*, San
Juan, Porto Rico.
- J. H. STEBBINS, JR., New York City.
Insect larva.
- HENRY THURSTON, Floral Park, N. Y.
Collection of insects, Long Island.
- FRANCIS M. TOLLETT, New York City.
3 Moth pupæ.
- A. L. TREADWELL, Poughkeepsie, N. Y.
Annulates, Pacific coast and various
localities.
- UNITED STATES NATIONAL MUSEUM,
Washington, D. C.
4 Insects, Tabermilla, Canal Zone,
Panama.
- MRS. AGNES L. VAUGHAN, New York
City.
2 Diptera, San Juan Mts., Colo.
- FRANK E. WATSON, New York City.
Local insects, mostly Lepidoptera.
- FRED WINTERSTEINER, Long Island City,
N. Y.
15 Coleoptera.
- C. H. YOUNG, New York City.
Insect, Waterford, Conn.

BY EXCHANGE.

- DURBAN MUSEUM, Natal, Africa.
6 Specimens *Peripatus*, 17 identified
crustaceans, and collection of Cole-
optera and other insects, Natal,
Africa.
- H. E. EWING, Corvallis, Oreg.
Slide mounts of mites.
- PIERRE FAUVEL, Angers, France.
Collection of annulates, France.
- E. G. LOVE, New York City.
2 Wasps, Phoenix, Ariz.
- NEW YORK STATE COLLEGE OF AGRICUL-
TURE, Ithaca, N. Y.
Collection of insects.
- UNIVERSITY OF CALIFORNIA, Berkeley,
Cal.
35 Vials of identified annulates, Pacific
coast.

BY PURCHASE.

- 246 Neuropteroid insects, various lo-
calities.
- 47 Slides of Thysanoptera.
- 300 Insects.
- Scale insects.
- Collection of Saturniidæ and Cerato-
campidæ.

38 Microscopic slides of mounted Rotifera, prepared by C. F. Rousset.

Various marine invertebrates, Woods Hole, Mass.

60 Larvæ of local Lepidoptera.

700 Insects, British Guiana.

THROUGH MUSEUM EXPEDITIONS.

Numerous insects, 16 crustaceans and molluscs, Langton Bay, Arctic Ocean. Collected by R. M. Anderson.

Collection of local Lepidoptera and several parasitic worms from intestine of Mosquito, Barnegat, N. J. Collected by J. A. Grossbeck.

10,617 Insects and other invertebrates from Cuba. Collected by F. E. Lutz and C. W. Leng.

2,000 Invertebrates, Passamaquoddy Bay, New Brunswick. Collected by R. W. Miner and H. Mueller.

5 Species Crustacea, Cuba. Collected by J. T. Nichols.

Myriapods and isopods, Ramsey, N. J. Collected by F. E. Lutz.

Identified collection of echinoderms, Lower California. Collected in 1911 by C. H. Townsend.

MOLLUSCA.

BY GIFT.

C. W. M. BEEBE, New York City.
Land Shells taken from the stomachs of Jungle Fowls.

1 Large Slug (*Anadenus beebei* Cockerell).

BARNUM BROWN, New York City.
21 Pond Snails, Red Deer River, Alberta.

LYMAN A. CHENEY, New York City.
15 Bent Amber Snails, Bronx.

T. D. A. COCKERELL, Boulder, Colo.
20 Pyramid Snails, Glenwood Springs, Colo.

CARLOS DE LA TORRE, Havana, Cuba.

An important collection of Cuban Land Shells, comprising many co-types and consisting of 655 specimens, representing 139 species.

MRS. HARRIET PHILLIPS EATON, New York City.

2 Coiled Mat Shells, Pass-a-Grille, Fla.

A. D. GABAY, New York City.

1 Fossil *Nautilus*, Bad Lands, N. Dak.; 1 Painted Thorny Oyster, California.

CHARLES P. GOERRIG, Brooklyn, N. Y.

314 Specimens of Marine Shells, comprising 30 genera and 80 species.

A. DA COSTA GOMEZ, New York City.

6 Marine Shells and a group of Scaly Worm-shells.

JUNIUS HENDERSON, Boulder, Colo.

19 Shells, various localities in Colorado.

FREDERICK F. HUNT, New York City.

160 Specimens of Florida marine, land and fresh-water shells.

PAUL KIHLER, San Francisco, Cal.

4 Specimens of *Choanopoma*, New Guinea.

L. MAURER, New York City.

1 Specimen deformed *Voluta*, New Zealand.

R. C. OSBURN, New York City.

24 Fresh-water clams, Ohio and North Dakota.

J. L. SPICER, New York City.

2 Shells from Indian grave, Union Springs, N. Y.

BY PURCHASE.

The A. Da Costa Gomez Collection of deformed and repaired shells, comprising scalariform, sinistral, distorted and repaired forms, in all 60 specimens.

4 Samples of the Tuzo Conch-Artistry.

DEPARTMENT OF GEOLOGY.

BY GIFT.

D. M. BARRINGER, Philadelphia, Pa.
Iron nucleus of shale ball, Canyon Diablo.

- MISS ELEANORA F. BLISS, San Antonio, Tex.
Rocks and fossils, Canal Zone, Panama; metamorphic rocks, Boyers-town, Pa.; specimens of Blue Mineral, Fredericksville, Pa.
- ROBERT BROOM, Springs, Transvaal, South Africa.
II Calcareous sponges and I Nautilus, Oölite of Farrington, England; I *Nuculites brenneri* and I *Trigonia ventricosa*, Bokkeveld, South Africa.
- FRANK COUSIN, Brooklyn, N. Y.
I *Halysites catenulatus*, near Montgomery, N. Y.
- DEPARTMENT OF VERTEBRATE PALEONTOLOGY, transfer.
Fossil seeds of the genus *Celitis*, Clark's Fork Basin, Wyo.
Cast of *Unio*, Edmonton formation, Red Deer River, Alberta.
- FOOTE MINERAL Co., Philadelphia, Pa.
Four pounds of soil, Holbrook, Ariz., locality of American Stone Shower, July 19, 1912.
- E. O. HOVEY, New York City.
Glaciated boulder and piece of fossil wood from preglacial deposit, Don Valley, near Toronto, Canada; rock specimens, new Catskill Aqueduct, Delancey Street, New York City, and Storm King, N. Y.
- ISTHMIAN CANAL COMMISSION, Culebra, C. Z.
104 Photographs of the Panama Canal and vicinity.
- W. T. KINNEAR, Forfar, Scotland.
Crustacean, Firth of Forth, Scotland.
- GEORGE C. LONGLEY, Pelham Manor, N. Y.
Basaltic lava, Jamaica, W. I.
- PERCIVAL LOWELL, Flagstaff, Ariz.
Transparency, "Passage of meteorite across trail of Halley's comet."
- J. A. MCLEAN, Montgomery, Ala.
5 Specimens of *Cassidulus*, Catoma Creek, near Montgomery, Ala.
- FRITZ MELLA, Santiago, Chile.
Portion of shell, near hinge, of huge Oyster, Antofagasta, Chile.
- WILLIAM J. OSBORN, Princeton, N. J.
8 *Belemnites americana*, Monmouth Co., N. J.
- FRANKLIN READING, Edmonton, Alberta.
Piece of mottled Marble 5" x 10", Fraser River, 12 miles below Yellowhead Summit, British Columbia.
- FREDERIC R. TIBBITTS, New York City.
I Specimen *Melonites*, United States Zinc Company's property at Chitwood Hollow, Joplin, Mo.; I Specimen of Horn Silver, Tonapah, Nev.; I Pack miners' matches (not made now).
- E. A. TURNER, San Francisco, Cal.
2 Specimens of Granite, Tielles, Forest Parish, Guernsey Island.
- BY EXCHANGE.
- FOOTE MINERAL Co., Philadelphia, Pa.
130 grm. Meteorite, "Lundsgard."
760 grm. Meteorite, "St. Michel."
24 grm. Meteorite, "Mern."
286 grm. Meteorite, "Stalldalen."
- F. KLINGHARDT, Bonn, Germany.
Pironea polystylus Pirone; *Radiolites syriacus*.
- ALBERT H. PETEREIT, New York City.
Weathered boulder of "Diabase," Clarkstown, N. Y.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
180 grm. Meteorite, "Hendersonville."
137 grm. Meteorite, "Perryville."
- BY PURCHASE.
- 16 Meteorites from the estate of Henry A. Ward.
195 grm. piece Aërolite, "Ergheo," Brava, Peninsula of Somali, Africa.
3 Aërolites, Ness County, Kans., weighing 7 $\frac{2}{3}$ oz., 281 grm. and 412.5 grm. respectively.
I Siderite (16 $\frac{1}{2}$ pounds), "Mungindi."
520 grm. piece Aërolite, "Hermitage Plains," Australia.
Slice of Siderite, "Santa Rosa."

Mohler Collection of Stalactites and Stalagmites, Weyers Cave, Grottoes, Va., and a number of glass and crockery vessels placed where the dripping water would coat them with stalagmitic material.

3 Specimens *Teallicaris londonensis* Peach, Firth of Forth, Scotland.

12 Specimens *Cassidulus*, Catoma Creek, near Montgomery, Ala.

1 "Clay Dog."

Specimen Chrome Mica Schist, near Rutland, Vt.

THROUGH MUSEUM EXPEDITIONS.

Specimens of rock, minerals and shells, Franklin Bay. Collected by R. M. Anderson.

Cave material for building representation of Weyers Cave in Museum. Collected by Prentice B. Hill through the courtesy of the Grottoes of the Shenandoah Co.

Rock specimens from Poas and Aguacate, Costa Rica. Collected by E. O. Hovey.

Rock specimens and fossil-bearing rocks from Panama Canal Zone. Collected by E. O. Hovey.

Specimens of rock from South Georgia Island. Collected by R. C. Murphy.

DEPARTMENT OF ANTHROPOLOGY.

By Gift.

C. C. ABBOTT, Trenton, N. J.
Argillite blade from "Yellow Drift" on Abbott Farm, Trenton, N. J.

ROALD AMUNDSEN.
Sledge used on journey to the South Pole.

GEORGE S. ANDERSON, New York City.
Boomerang, New Zealand.

FRANK D. ANDREWS, Vineland, N. J.
Archæological collection, Greenwich, N. J.; decorated potsherds and arrow-points.

FRANK BANCROFT, New York City.
Navajo woman's dress, Navajo, Ariz.

J. M. BELL, Brooklyn, N. Y.
Ceremonial celt found half mile east of Bassett, Ark.

H. R. BISHOP, New York City.
Robe of pelican feathers, Tecolote, Sonora, Mex.

ROBERT BROOM, Springs, Transvaal, South Africa.

1 Arrow polisher, 1 pitted stone, 1 weighting stone, 4 chips and 1 potsherd, Cape Colony, Africa.

MISS C. BRUCKMAN, New York City.
2 Decorated egg shells, Madeira.

MISS JULIA CLEMONS, New York City.
3 Pottery vessels.

J. G. CUMMINGS, Brooklyn, N. Y.
Beads and powder horn, Queen Charlotte Islands.

E. DAYTON, New York City.
Broken arrow, said to be from Patagonia.

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

MISS F. DEL MAR, New York City.
Model of cart and carabao, Philippine Islands.

ERNEST EBERLEIN, New York City.
Model of canoe, Philippine Islands.

DEPARTMENT OF GEOLOGY, transfer.
Fragments of pottery, eastern United States.

G. T. EMMONS, Princeton, N. J.
3 Mats, South Sea Islands.
Pair Eskimo reindeer skin boots, Alaska.

MRS. E. H. HARRIMAN, Arden, N. Y.
Old Mandan war costume.

MRS. FRANK HARTLEY, New York City.
Saddle, blanket, quiver, bow and arrows, 4 pipe bags, 2 pouches, knife and case, quirt, pipe, etc., Plains Indians. Snake skin, Australia.

MRS. J. W. HASLEHURST, New York City.
1 Wooden box, 1 wooden spoon, 5 silver bracelets and 8 silver spoons, Alaska.

R. H. HAZARD, New York City.
Stone war club, Yodda River, Orikiva Tribe.

- COURTNEY HYDE, Middle Haddam, Conn.
Small wooden canoe, north Pacific coast.
- S. ICHIKAWA, New York City.
Calendar tablet, Japan.
- THOMAS ILLIDGE, Queensland, Australia.
"Death bone" and pointer, Queensland.
- MORRIS JAFFE, New York City.
Foetal skeleton.
- ESTATE OF JOHN LAFARGE, through MISS GRACE EDITH BARNES, New York City.
Small drinking cup made from coconut presented to Mr. LaFarge by King Mataafa of Samoa.
- MRS. BENONI LOCKWOOD, New York City.
Feather headdress and ornament, Oriente Indians, Ecuador.
- MAMMOTH CAVE ESTATE, Mammoth Cave, Ky.
Archæological collection, Mammoth Cave.
- CLARENCE B. MOORE, Philadelphia, Pa.
Archæological specimens, Poverty Point, West Carroll Parish, La.
- THOMAS A. MOORE and W. F. WILLS, New York City.
8 Arrow-heads and 4 pottery fragments, Camden, S. C.
- J. P. MORGAN, New York City.
The Mason archæological collection, vicinity of Jonesboro, Tenn.
- FRANCIS C. NICHOLAS, Carbo, Sonora, Mex.
2 gourd rattles and 2 masks, Mexico.
- GEORGE OLSEN, New York City.
Ax and rubbing stone, Red Deer River, Alberta.
- MRS. HERBERT PARSONS, New York City.
Drum, Jicarilla Apache.
- G. O. SHIELDS, New York City.
Tapa cloth; blowgun and 6 darts, probably Cherokee.
- ALANSON SKINNER, New York City.
Antler tine cut off at base with stone knife, found beneath shell heap at Isham's Garden, Manhattan Island; part of colonial rum bottle found with potsherds in an Indian shell pit, Seaman Avenue, New York City.
- F. G. SPECK, Philadelphia, Pa.
Semilunar scraper, Montagnais Indians of Lake Saint John, P. Q.
- HENRY THURSTON, Floral Park, N. Y.
2 Arrow-heads, Florida.
- FRANK WOOD, New Bedford, Mass.
4 Baskets.

BY EXCHANGE.

- COLUMBIA UNIVERSITY MUSEUM, New York City.
Archæological and ethnological collection from North America, Europe, South Sea Islands and Mexico.
- G. T. EMMONS, Princeton, N. J.
2 Whaling charms, ivory quiver strengthener, canoe bailer, cedar bark bag, section of mammoth tusk used for paint, ivory harpoon and ivory figure, Alaska; seal and otter spear, Yakutat; two ivory toggles and one horn tablet, Alaskan Eskimo.
- DWIGHT FRANKLIN, New York City.
Quirt, Navajo Indians; ax, Marsh Pass, Ariz.
- HENRI MARTIN, Paris, France.
Cast of La Quina skeleton and 80 archæological specimens found with it.
- MUSEO ETHNOGRAFICO, Buenos Aires, South America.
Archæological and ethnological collections, Brazil, Argentine and Patagonia.
- PEABODY MUSEUM, Cambridge, Mass.
2 Arapaho, 4 Cheyenne, 2 Comanche, 1 Choctaw and 3 Kiowa busts.

BY PURCHASE.

- Decorated buffalo robe, Plains Indians.
Shirt and shield of Plains Indian.
10 Gold objects, Chiriqui.
2 Maori skulls, 1 New Guinea skull, 1 Maori mask and 1 cast of an idol.
Relief map, section of southwestern States.
Combs, New Guinea.

Head-hunter's ring and shell bracelet, Nias.

2 Carved bowls, 2 carved spoons, 2 buffalo hide parfleches, 1 buffalo hide bonnet case, 1 cowskin parfleche, North America.

3 mats, Yakima Indians.

43 Pieces of Maya embroidery from Peten, and one woolen blanket from Totonicapan, Guatemala.

2 Lances and 2 rattles.

Archæological collection, Dordogne, France.

2 Pieces of bark cloth, Uganda, Africa.

3 Decorated coats, 1 baby board, 8 baskets, 6 wooden bowls, 1 wampum neck band, 2 sleds and 58 miscellaneous pieces, including tools, beaded bags, etc., Malecite Indians.

Pottery vessel and fragments of two others, Georgia.

3 Baskets, Micmac Indians.

Collection of Catawba pottery.

Maori club.

Ethnological collection, Micmac Indians.

2 Osage war bundles.

Dress and three gourds, Guatemala.

THROUGH MUSEUM EXPEDITIONS.

Ethnological specimens, Crow Indians. Collected by Robert H. Lowie.

Samples of earth, Castillo cavern. Collected by N. C. Nelson.

Ethnological collection from the Oglala, Pine Ridge, South Dakota. Collected by Charles Nines.

Nine poisoned arrows, Wandorobo, British East Africa. Collected by W. S. Rainsford.

Archæological collection, New York and New Jersey rock-shelters. Collected by Max Schrabisch.

Ethnological collections, Menomini Indians, Wisconsin, the Plains-Cree, Manitoba, and the Plains-Ojibway, Saskatchewan. Collected by Alanson Skinner.

Ethnological collection, Potawatomi Indians, Wisconsin. Collected by Alanson Skinner.

Ethnological specimens, Hopi and Rio Grande Pueblos. Collected by H. J. Spinden.

Collection of Navajo and Pueblo silverwork, consisting of necklaces, bracelets, rings, buttons, etc., and 3 Navajo baskets. Collected by H. J. Spinden.

Ethnological collections, Hidatsa and Mandan Indians, Fort Berthold Reservation, N. Dak. Collected by Gilbert L. Wilson.

DEPARTMENT OF PUBLIC HEALTH.

By Gift.

ARISTIDES AGRAMONTE, Havana, Cuba.
Large photograph.

BOSTON CITY HOSPITAL, Boston, Mass.
1 Bacterial culture.

BRITISH MUSEUM OF NATURAL HISTORY, London, England.

4 *Glossina palpalis*, 5 *Argas persicus*, 1 *Ornithodoros moubata*, 4 *Ornithodoros savignyi*, 4 *Laemosyella cheopus*.

BUREAU OF ANIMAL INDUSTRY, Washington, D. C.
1 Bacterial culture.

BUREAU OF PLANT INDUSTRY, Washington, D. C.
6 Bacterial cultures.

COLORADO AGRICULTURAL STATION, Fort Collins, Colo.
1 Bacterial culture.

CORNELL MEDICAL COLLEGE, New York City.
3 Bacterial cultures.

CORNELL UNIVERSITY, Ithaca, N. Y.
2 Bacterial cultures.

E. K. DUNHAM, New York City.
2 Fly-traps.

HARVARD MEDICAL SCHOOL, Boston, Mass.
1 Bacterial culture.

HOAGLAND LABORATORY, Brooklyn, N. Y.
6 Bacterial cultures.

WALTER B. JAMES, New York City.
Tree trunks, illustrating fungus infection.

JOHNS HOPKINS UNIVERSITY HOSPITAL, Baltimore, Md.
3 Bacterial cultures.

- INSTITUTE FOR INFECTIOUS DISEASES,
Chicago, Ill.
2 Bacterial cultures.
- E. LIBMAN, New York City.
2 Bacterial cultures.
- NEW YORK HOMEOPATHIC MEDICAL
SCHOOL, New York City.
1 Bacterial culture.
- NEW YORK STATE VETERINARY COLLEGE,
Ithaca, N. Y.
1 Bacterial culture.
- OREGON AGRICULTURAL COLLEGE, Corval-
lis, Oreg.
1 Bacterial culture.
- PURDUE UNIVERSITY, Lafayette, Ind.
1 Bacterial culture.
- ROCKEFELLER INSTITUTE FOR MEDICAL
RESEARCH, New York City.
1 Bacterial culture.
- F. F. RUSSELL, Washington, D. C.
1 Bacterial culture.
- RUTLAND STATE SANATORIUM, Rutland,
Mass.
1 Bacterial culture.
- SHEFFIELD SCIENTIFIC SCHOOL, New
Haven, Conn.
1 Bacterial culture.
- VERMONT AGRICULTURAL EXPERIMENT
STATION, Burlington, Vt.
2 Bacterial cultures.
- UNIVERSITY OF PENNSYLVANIA, Philadel-
phia, Pa.
1 Bacterial culture.
- UNIVERSITY OF PITTSBURGH, Pittsburgh,
Pa.
2 Bacterial cultures.
- UNIVERSITY OF WISCONSIN, Madison,
Wis.
3 Bacterial cultures.
- DEPARTMENT OF WOODS AND
FORESTRY.
- BY GIFT.
- HERMAN DE FREMERY, New York City.
53 Specimens of hard wood and 4
specimens of bark.
- EDWARD C. M. RICHARDS, Bernardsville,
N. Y.
Specimen of hard wood.
- U. S. FOREST SERVICE, Washington, D. C.
71 Small specimens of hard wood.
- WELIN MARINE EQUIPMENT Co., Long
Island City, N. Y.
4 Specimens of hard wood.
- BY PURCHASE.
- 300 Microscopic slides of wood sec-
tions.

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,
 [I. s.] 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.*

SEAL
of the American
Museum of
Natural History

ROBERT L. STUART,
*President 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 5, 1912

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

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 \$10,000 to the funds of the Museum, at one time, 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 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 5, 1912

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

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

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

VI

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

VII

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

VIII

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

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

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

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

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

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

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

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 I. 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, 1913

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
Balance December 31, 1913.....		88,191 23
		\$111,808 77

FOR THE EQUIPMENT AND CONSTRUCTION OF PERMANENT IMPROVEMENTS TO 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 seventy-five thousand dollars, to provide means for furnishings for 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 seventy-five thousand dollars (\$75,000), 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 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, 1913

RECEIPTS :

By Direct Appropriation (C.D.P. 3c)	\$75,000 00
Cancellation by Request.....	10,000 00
Available Balance.....	\$65,000 00

EXPENDITURES :

Contracts Paid :		
Balfour & Koch.....	\$2,278 00	
The Van Dorn Iron Works Co....	3,872 00	
Joseph Di Benedetto.....	2,720 00	
The Snead & Co. Iron Works....	4,320 00	
American Wood Working Machinery Co.....	1,100 00	
Trowbridge & Livingston.....	420 00	\$14,710 00
Open Market Orders.....	22,249 17	
Mechanics' Pay Roll.....	28,040 83	\$65,000 00

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, 1913

RECEIPTS :

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

LIST OF TRUSTEES AND TERMS OF SERVICE

1869-1913

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
Bickmore, Albert S.....	1885-
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
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
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
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-
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, 1913

BENEFACTORS

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

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

ASSOCIATE BENEFACTORS

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

GEORGE S. BOWDOIN.*	OGDEN MILLS.
CLEVELAND H. DODGE.	J. P. MORGAN.
ARCHER M. HUNTINGTON.	HENRY FAIRFIELD OSBORN.
ARTHUR CURTISS JAMES.	PERCY R. PYNE.
A. D. JUILLIARD.	WILLIAM ROCKEFELLER.
CHARLES LANIER.	JACOB H. SCHIFF.
JOSEPH F. LOUBAT.	FELIX M. WARBURG.

PATRONS

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

EDWARD D. ADAMS.	ALBERT S. BICKMORE.
JOHN ANDERSON.*	Mrs. ALBERT S. BICKMORE.
JAMES ANGUS.*	FREDERICK BILLINGS.*
HICKS ARNOLD.*	HEBER R. BISHOP.*
RICHARD ARNOLD.*	GEORGE BLISS.*
WILLIAM H. ASPINWALL.*	GEORGE T. BLISS.*
JOHN JACOB ASTOR.*	Miss SUSAN DWIGHT BLISS.
WILLIAM WALDORF ASTOR.	Mrs. WILLIAM H. BLISS.
HUGH AUCHINCLOSS.*	WILLIAM T. BLODGETT.*
BENJAMIN AYMAR.*	ROBERT BONNER.*
Mrs. GUY ELLIS BAKER.	HENRY BOOTH.
A. H. BARNEY.*	M. C. D. BORDEN.*
D. N. BARNEY.*	J. A. BOSTWICK.*
JAMES GORDON BENNETT.	GEORGE S. BOWDOIN.*

*Deceased

GEORGE DEXTER BRADFORD.*
 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.
 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.
 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.
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 JOHN A. GROSSBECK.
 WILLIAM A. HAINES.*
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 OLIVER HARRIMAN.*
 HENRY O. HAVEMEYER.*
 THEODORE A. HAVEMEYER.*
 GEORGE G. HAVEN.*
 GEORGE A. HEARN.*
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 Mrs. ABRAM S. HEWITT.*
 VeryRev. E. A. HOFFMAN, D.D., LL.D.*
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 SAMUEL V. HOFFMAN.
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 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 FYVIE.
 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.
 WILLIAM C. SCHERMERHORN.*
 JACOB H. SCHIFF.
 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.*
 FREDERIC 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, Jr.
 Rev. RODERICK TERRY, D.D.
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 JOEL WOLFE THORNE.
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 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.*
 Miss C. L. WOLFE.*
 JOHN D. WOLFE.*

FELLOWS

By contribution of \$500, or through honorary election

- | | |
|--------------------------|--------------------------------|
| JOHN ALSTYNE.* | AYMAR JOHNSON. |
| SAMUEL P. AVERY.* | JAMES H. JONES. |
| CHARLES T. BARNEY.* | GOVERNEUR KEMBLE.* |
| THOMAS BARRON.* | ROBERT LENOX KENNEDY.* |
| The Duke of BEDFORD. | WHEATON B. KUNHARDT. |
| CORTLANDT FIELD BISHOP. | Col. ANTHONY R. KUSER. |
| DAVID WOLFE BISHOP. | Prof. WILLIAM LIBBEY. |
| GEORGE BLISS.* | A. A. LOW.* |
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| STEWART BROWN.* | EMERSON McMILLIN. |
| WM. LANMAN BULL. | Miss CAROLINE L. MORGAN. |
| JOHN L. CADWALADER. | SAMUEL F. B. MORSE.* |
| JAMES C. CARTER.* | RICHARD MORTIMER. |
| CHARLES W. CASS.* | LEVI P. MORTON. |
| GEORGE W. CASS.* | FRANCIS CHILD NICHOLAS, Ph. D. |
| Prof. CHAS. F. CHANDLER. | LLOYD PHENIX. |
| Mrs. GEO. W. COLLORD.* | PHILLIPS PHENIX. |
| HANSON K. CORNING.* | HENRY W. POOR. |
| Mrs. RICHARD P. DANA.* | HOWARD POTTER.* |
| ALFRED B. DARLING.* | O. B. POTTER.* |
| CHARLES DEERING. | Dr. WILLIAM W. RADLOFF. |
| WM. EARL DODGE, 4th. | MARSHALL O. ROBERTS.* |
| ABRAM DUBOIS.* | JOHN D. ROCKEFELLER. |
| CYRUS W. FIELD, Jr.* | C. V. S. ROOSEVELT.* |
| JOSIAH M. FISKE.* | F. AUGUSTUS SCHERMERHORN. |
| H. M. FLAGLER.* | H. M. SCHIEFFELIN.* |
| ROBERT GORDON. | GRANT B. SCHLEY. |
| GEORGE G. GRAY.* | Mrs. HARRIET L. SCHUYLER. |
| CHARLES W. GRISWOLD.* | PHILIP SCHUYLER.* |
| JOHN A. GROSSBECK. | CHARLES H. SENFF.* |
| JAMES B. HAGGIN. | ELLIOTT F. SHEPARD.* |
| F. R. HALSEY. | JOHN SLOANE.* |
| Miss LAURA P. HALSTED.* | JOHN SNEDEN.* |
| WM. H. HARBECK.* | D. C. STAPLETON. |
| Mrs. HENRY O. HAVEMEYER. | CHARLES D. STICKNEY. |
| SAMUEL HAWK.* | Miss CAROLINE PHELPS STOKES.* |
| Very Rev. E. A. HOFFMAN, | Miss OLIVIA E. PHELPS STOKES. |
| D. D., LL. D.* | Mrs. FRANK K. STURGIS. |
| H. B. HOLLINS. | RUTHERFURD STUYVESANT.* |
| PAUL GRISWOLD HOWES. | JOHN T. TERRY.* |
| MEREDITH HOWLAND.* | LEWIS S. THOMPSON. |
| SAMUEL N. HOYT.* | JAMES THOMSON.* |
| D. B. IVISON.* | TIFFANY & Co. |
| CHARLES M. JESUP. | 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.

Baron LUDOVIC MONCHEUR.
 Rear-Admiral ROBERT E. PEARY,
 U.S.N.
 Dr. LEONARD C. SANFORD.

LIFE MEMBERS

By contribution of \$100, or through honorary election

ERNEST KEMPTON ADAMS.*
 C. R. AGNEW.
 G. B. AGNEW.
 CARL E. AKELEY.
 JOHN E. ALEXANDRE.*
 Admiral E. ALEXEIEFF.
 Rev. ARTHUR HUNTINGTON ALLEN.
 RICHARD H. ALLEN.*
 F. D. ALLER.
 BERNARD G. AMEND.*
 F. LOTHROP AMES.
 LARZ ANDERSON.
 Mrs. BLANCHE L. ANDREWS.*
 CONSTANT A. ANDREWS.
 FRANCIS R. APPLETON.
 Mrs. MARTIN ARCHER-SHEE.
 ALLISON V. ARMOUR.
 S. T. ARMSTRONG, M.D.
 Mrs. WILLIAM ARMSTRONG.
 BENJAMIN WALWORTH ARNOLD.
 B. G. ARNOLD.*
 JOHN JACOB ASTOR.*
 VINCENT ASTOR.
 J. T. ATTERBURY.*
 Mrs. EDGAR S. AUCHINCLOSS, Jr.
 Mrs. EMMA B. AUCHINCLOSS.
 HUGH D. AUCHINCLOSS.*
 SAM SLOAN AUCHINCLOSS.
 Miss FLORENCE AUDUBON.
 Miss MARIA R. AUDUBON.
 SAMUEL P. AVERY.*

SAMUEL P. AVERY.
 Mrs. JAMES C. AYER.*
 Miss E. AYMAR.*
 JULES S. BACHE.
 JAMES A. BAILEY.*
 JAS. MUHLENBERG BAILEY.*
 Miss CHARLOTTE S. BAKER.
 GEO. F. BAKER, Jr.
 H. MARTYN BAKER.
 EDWIN SWIFT BALCH.
 ALBERT H. BALDWIN.
 CARROLL BALDWIN.
 JOSEPH C. BALDWIN.*
 DAVID BANKS.*
 HENRY I. BARBEY.*
 Mrs. P. HACKLEY BARHYDT.
 THOMAS BARING.
 FORDYCE BARKER, M.D.*
 Miss CORA F. BARNES.*
 JOHN S. BARNES.*
 JOHN HENDLEY BARNHART, M.D.
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 BERNARD M. BARUCH.
 W. H. BEADLESTON.*
 C. WILLIAM BEEBE.
 GEORGE E. BELCHER, M.D.*
 BERTRAND F. BELL.
 Mrs. CHRISTOPHER M. BELL.
 C. M. BELL, M.D.*
 DENNISTOUN M. BELL.
 GORDON KNOX BELL.

* Deceased

LOUIS V. BELL.
 WM. F. BELLER.
 AUGUST BELMONT.
 THOMAS G. BENNETT.
 THEODORE BERDELL.*
 C. M. BERGSTRESSER.
 CHARLES L. BERNHEIMER.
 Mrs. CHARLES L. BERNHEIMER.
 JOHN E. BERWIND.
 SAMUEL R. BETTS.
 LYNFORD BIDDLE.
 W. LYMAN BIDDLE.
 Mrs. ALBERT BIERSTADT.
 JOHN BIGELOW.*
 Miss ELIZABETH BILLINGS.
 FREDERICK BILLINGS.*
 Mrs. EMMONS BLAINE.
 J. INSLEY BLAIR.
 T. W. BLAKE.
 GEO. BLEISTEIN.
 Miss CATHERINE A. BLISS.
 CORNELIUS N. BLISS.*
 CORNELIUS N. BLISS, Jr.
 GEORGE BLUMENTHAL.
 HENRY W. BOETTGER.
 ROBERT BOETTGER.
 EDWARD C. BOHDE.
 A. K. BOLAN.*
 GEORGE C. BOLDT.
 W. B. BOURN.
 FREDERICK G. BOURNE.
 LOUIS J. BOURY.
 Mrs. TEMPLE BOWDOIN.*
 GEORGE W. BRACKENRIDGE.
 Mrs. WM. H. BRADFORD, Sr.
 JOHN R. BRADLEY.
 ANTHONY N. BRADY.*
 JAMES C. BRADY.
 HENRI M. BRAEM.*
 COURTNEY BRANDRETH.
 BENJAMIN BREWSTER.*
 FREDK. F. BREWSTER.
 GEORGE S. BREWSTER.
 WILLIAM BREWSTER.
 Mrs. SAMUEL W. BRIDGHAM.
 CHARLES LYMAN BRINSMADÉ.
 CHAS. P. BRITTON.

WILLIAM GOULD BROKAW.
 ADDISON BROWN.*
 DICKSON Q. BROWN.
 FRANK G. BROWN.*
 GEO. MCKESSON BROWN.
 GEORGE H. BROWN.*
 JAMES M. BROWN.*
 STANLEY DOTY BROWN.
 J. HULL BROWNING.
 Miss MATILDA W. BRUCE.*
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 WILLIAMSON BUCKMAN.
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 R. L. BURTON.
 JOSEPH BUSHNELL.
 THOMAS C. BUSHNELL.*
 B. H. BUXTON.
 JOHN L. CADWALADER.
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 Freeland, Arthur G.
 Freeman, Zoheth S.
 French, Daniel C.
 French, Mrs. Daniel C.
 French, S. A.
 Frenkel, Emil
 Freund, Mrs. E.
 Frew, Walter E.
 Frew, Mrs. W. N.
 Frick, Miss Helen C.
 Friedlander, Miss Clara
 Friedlander, Louis
 Friedlander, Victor
 Friedlander, Wm. S.
 Fries, Miss Emilie
 Fries, Harold H.
 Frissell, A. S.
 Frost, Aaron V.
 Frye, Jed
 Fuld, Felix
 Fulda, Clemens, M.D.
 Fuller, Miss Clara C.
 Fuller, Mrs. Eugene
 Fulton, Dr. J. G.
 Gaillard,
 Mrs. William D.
 Gallatin, Albert
 Gallatin, Mrs. Albert
 Gallaway, Robert M.
 Galliver, Geo. A.
 Gambier, E. V.
 Gardin, John E.
 Gardiner, Robert A.
 Garrett, John W.
 Garrett, Laura B.
 Garrett, Robert
 Gartland, George E.
 Garver, John A.
 Gaunt, James
 Gawtry, H. E.
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 Geer, Walter
 Gentzel, G. H.
 Gerrish, Frank Scott
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 Gibson,
 Miss Florence Wier
 Gilbert, Clinton
 Gilbert, Miss Ellen G.
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 Gillett, Wm. K.
 Gillies, Edwin J.
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 Gladding, J. R.
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 Goddard, Mrs. F. Norton
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 Godkin, Lawrence
 Goebel, Lewis S.
 Goldberg, Samuel W.
 Goldfrank, Mrs. M.
 Goldman, Julius
 Goldsmith, Frederick
 Goldsmith, James A.
 Goldsmith, Louis
 Goldwasser, I. Edwin
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 Rev. Charles L.
 Goodfriend, Jacob
 Goodfriend, Meyer
 Goodhue, Chas. E.
 Goodwin, Walter L.
 Gordon, W. S.
 Gottgetreu, Wm.
 Gottheil, Leon
 Gottheil, Paul
 Gotthold, Arthur F.
 Gould, Charles A.
 Gould, Chas. W.
 Gould, Edwin
 Gould, Edwin, Jr.
 Gould, Horace S.
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 Graham, Robert Dun
 Grant,
 Rev. Percy Stickney
 Grasselli, C. A.
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 Mrs. Clendenen
 Greeff, Bernhard, Jr.
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- Greer, Rt. Rev. David H.
- Greer, Mrs. David H.
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- Gregory, Charles
- Gregory, Chas. E.
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- Griffith, Percy T.
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- Gutmann, Carl
- Gutmann, James
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- Hage, Daniel S.
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- Hague, William
- Hahlo, Arthur H.
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- Halle, J. S.
- Halls, William, Jr.
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- Halsey, R. T. H.
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Louis Gordon
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- Hamlen,
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 Lake, Henry S.
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 Legg, George
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 Lehman, Irving
 Lehman, Meyer H.
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 Lemp, Louis
 Leonori, Charles L.
 Le Roy, Mrs. E. A., Jr.
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 Lesser, Jacob J.
 Leupp, Wm. H.
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 Levison, Benno, Jr.
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 Levy, Ephraim B.
 Levy, Louis S.
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 Lewisohn, Julius A.
 Lewkowitz, Gustav
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 Lichtenstein, Melvin
 Lichtenstein, Paul
 Lichtenstein, Mrs. Paul
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 Lieb, J. W., Jr.
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 Howard, M.D.
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 Gilbert Robert, Jr.
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 Loeb, C. M.
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 Miss Carlotta Russell
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 Lyman, Theodore
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 Maas, Gustavus
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 Macdonald, Charles
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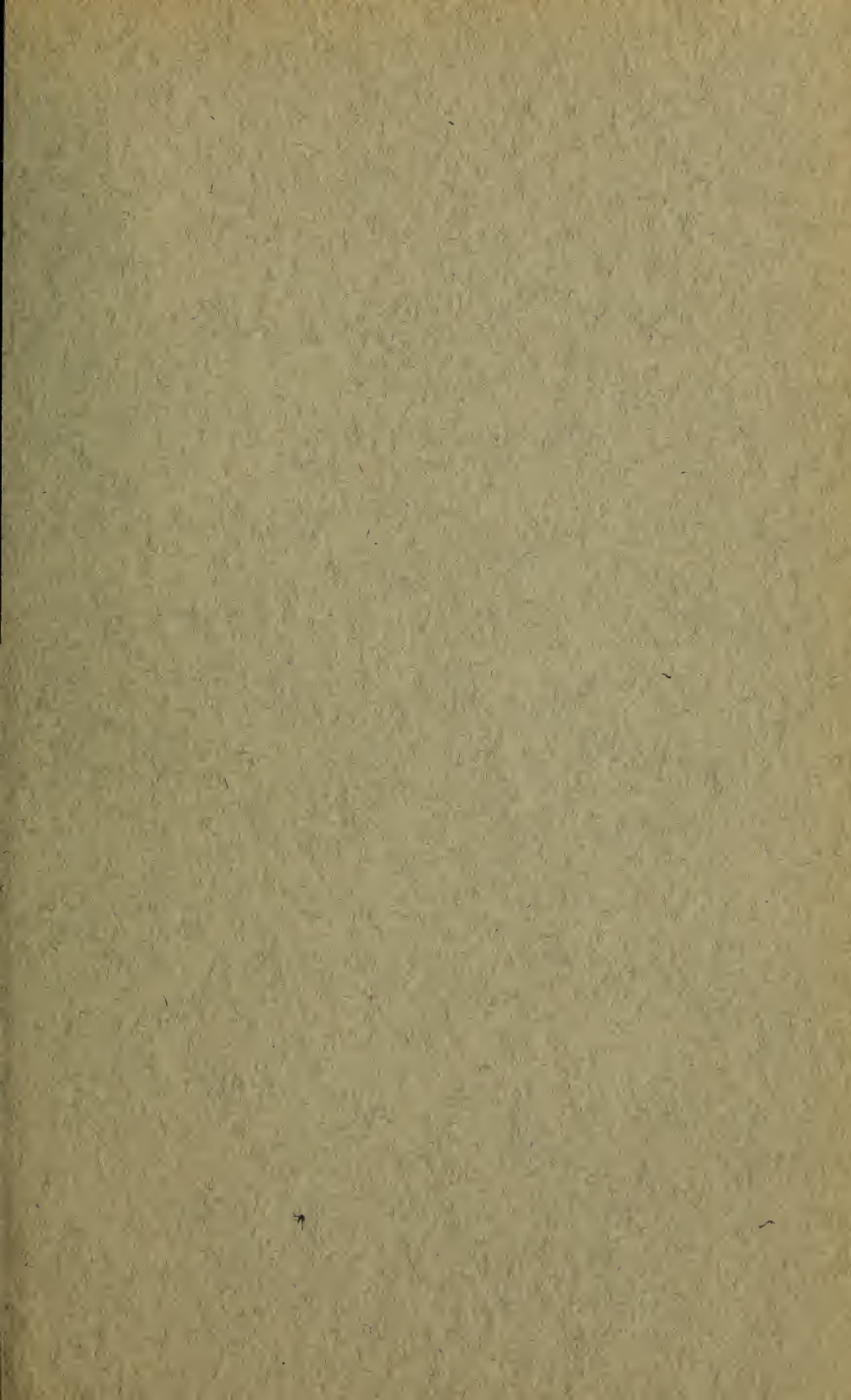
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