

THE AMERICAN MUSEUM OF  
NATURAL HISTORY

INCORPORATED IN 1869



## MEMBERSHIP AND ENDOWMENT

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There are more than two thousand residents of New York and vicinity who support the educational and scientific work of the Museum and enjoy its lectures, publications and other privileges.

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

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

## FORM OF GIFT OR BEQUEST

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*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



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

FOR THE YEAR 1909

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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 MAY 1, 1910

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# BOARD OF TRUSTEES

FOR 1910

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## President

HENRY FAIRFIELD OSBORN

## First Vice-President

J. PIERPONT MORGAN

## Second Vice-President

CLEVELAND H. DODGE

## Treasurer

CHARLES LANIER

## Secretary

J. HAMPDEN ROBB

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## EX-OFFICIO

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

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## ELECTIVE

### CLASS OF 1910

J. HAMPDEN ROBB	PERCY R. PYNE
ARTHUR CURTISS JAMES	JOHN B. TREVOR
J. PIERPONT MORGAN, JR.	

### CLASS OF 1911

CHARLES LANIER	WILLIAM ROCKEFELLER
ANSON W. HARD	GUSTAV E. KISSEL
SETH LOW	

### CLASS OF 1912

ALBERT S. BICKMORE	ARCHIBALD ROGERS
ADRIAN ISELIN, JR.	THOMAS DEWITT CUYLER

### CLASS OF 1913

GEORGE S. BOWDOIN	CLEVELAND H. DODGE
A. D. JUILLIARD	ARCHER M. HUNTINGTON

### CLASS OF 1914

J. PIERPONT MORGAN	JOSEPH H. CHOATE
HENRY FAIRFIELD OSBORN	JAMES DOUGLAS
GEORGE W. WICKERSHAM	

# COMMITTEES OF THE BOARD OF TRUSTEES

## FOR 1910

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### Executive Committee

HENRY FAIRFIELD OSBORN, *Chairman*  
J. PIERPONT MORGAN    GEORGE S. BOWDOIN  
CLEVELAND H. DODGE    ARTHUR CURTISS JAMES  
CHARLES LANIER        A. D. JUILLIARD  
J. HAMPDEN ROBB        ARCHER M. HUNTINGTON  
                              JOHN B. TREVOR

### Auditing Committee

ANSON W. HARD, *Chairman*  
GUSTAV E. KISSEL                      SETH LOW

### Finance Committee

J. PIERPONT MORGAN, *Chairman*  
CHARLES LANIER                      PERCY R. PYNE  
THOMAS DEWITT CUYLER    ADRIAN ISELIN, JR.  
                              J. PIERPONT MORGAN, JR.

### Nominating Committee

PERCY R. PYNE, *Chairman*  
SETH LOW                                ARCHIBALD ROGERS

### Committee on Buildings and Plans

J. PIERPONT MORGAN, JR., *Chairman*  
JOHN B. TREVOR

The President is *ex-officio* a member of all  
Standing Committees

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## ADMINISTRATIVE OFFICERS

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### Director

HERMON CAREY BUMPUS

### Assistant Secretary and Assistant Treasurer

GEORGE H. SHERWOOD

# APPOINTIVE COMMITTEES FOR 1910\*

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## COMMITTEE ON BIRD GROUPS

JOHN L. CADWALADER, *Chairman*

## COMMITTEE ON AFRICAN EXPLORATION

JOHN B. TREVOR, *Chairman*

HERMON C. BUMPUS

JAMES GUSTAVUS WHITELEY

ROBERT W. GOELET

HERBERT L. BRIDGMAN

FRANK M. CHAPMAN

## COMMITTEE ON PRIMITIVE PEOPLES OF THE SOUTHWEST

ARCHER M. HUNTINGTON, *Chairman*

JAMES DOUGLAS

## COMMITTEE ON ANTARCTIC EXPLORATION

ARCHER M. HUNTINGTON, *Chairman*

ARTHUR CURTISS JAMES

HERMON C. BUMPUS

## COMMITTEE ON NORTH AMERICAN WOODS AND FORESTRY

GIFFORD PINCHOT, *Chairman*

Mrs. MORRIS K. JESUP

Prof. JAMES W. TOUMEY

Miss MARY PARSONS, *Secretary*

## COMMITTEE ON FISHES AND MARINE LIFE

CLEVELAND H. DODGE, *Chairman*

ERNESTO FABBRI

ALESSANDRO FABBRI

CHARLES H. TOWNSEND

## COMMITTEE ON MINERALS AND MINES

JAMES DOUGLAS, *Chairman*

## COMMITTEE ON INDIANS OF THE PLAINS

ARCHIBALD ROGERS, *Chairman*

GEORGE BIRD GRINNELL

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\* These Committees are appointed annually by the President, for service kindly volunteered to the respective departments.

# SCIENTIFIC STAFF

FOR 1910

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## *DIRECTOR*

HERMON CAREY BUMPUS, Ph.D., Sc.D., LL.D.

## *DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY*

Prof. R. P. WHITFIELD, A.M., Curator Emeritus  
EDMUND OTIS HOVEY, A.B., Ph.D., Curator

## *DEPARTMENT OF MINERALOGY*

L. P. GRATACAP, Ph.B., A.B., A.M., Curator  
GEORGE F. KUNZ, A.M., Ph.D., Honorary Curator of Gems

## *DEPARTMENT OF INVERTEBRATE ZOÖLOGY*

Prof. HENRY E. CRAMPTON, A.B., Ph.D., Curator  
ROY W. MINER, A.B., Assistant Curator  
FRANK E. LUTZ, A.B., A.M., Ph.D., Assistant Curator  
L. P. GRATACAP, Ph.B., A.B., A.M., Curator of Mollusca  
WILLIAM BEUTENMÜLLER, Associate Curator of Lepidoptera

Prof. WILLIAM MORTON WHEELER, Ph.D., Honorary Curator of Social Insects  
ALEXANDER PETRUNKEVITCH, Ph.D., Honorary Curator of Arachnida  
Prof. AARON L. TREADWELL, B.S., M.S., Ph.D., Honorary Curator of Annulata

## *DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY*

Prof. BASHFORD DEAN, A.B., A.M., Ph.D., Curator of Fishes and Reptiles  
LOUIS HUSSAKOF, B.S., Ph.D., Assistant Curator of Fossil Fishes

## *DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY*

Prof. J. A. ALLEN, Ph.D., Curator  
FRANK M. CHAPMAN, Curator of Ornithology  
ROY C. ANDREWS, A.B., Assistant in Mammalogy  
W. de W. MILLER, Assistant in Ornithology

## *DEPARTMENT OF VERTEBRATE PALÆONTOLOGY*

Prof. HENRY FAIRFIELD OSBORN, A.B., Sc.D., LL.D., D.Sc., Curator  
W. D. MATTHEW, Ph.B., A.B., A.M., Ph.D., Associate Curator  
WALTER GRANGER, Assistant Curator of Fossil Mammals  
BARNUM BROWN, A.B., Assistant Curator of Fossil Reptiles

## SCIENTIFIC STAFF FOR 1910—*Continued*

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### *DEPARTMENT OF ANTHROPOLOGY*

CLARK WISSLER, A.B., A.M., Ph.D., Curator  
PLINY E. GODDARD, A.B., A.M., Ph.D., Associate Curator  
HARLAN I. SMITH, Associate Curator  
ROBERT H. LOWIE, A.B., Ph.D., Assistant Curator  
HERBERT J. SPINDEN, A.B., A.M., Ph.D., Assistant Curator  
CHARLES W. MEAD, Assistant  
ALANSON SKINNER, Assistant

### *DEPARTMENT OF PHYSIOLOGY*

Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator

### *DEPARTMENT OF PUBLIC HEALTH*

Prof. CHARLES-EDWARD AMORY WINSLOW, S.B., M.S., Curator

### *DEPARTMENT OF WOODS AND FORESTRY*

MARY CYNTHIA DICKERSON, In Charge

### *DEPARTMENT OF BOOKS AND PUBLICATIONS*

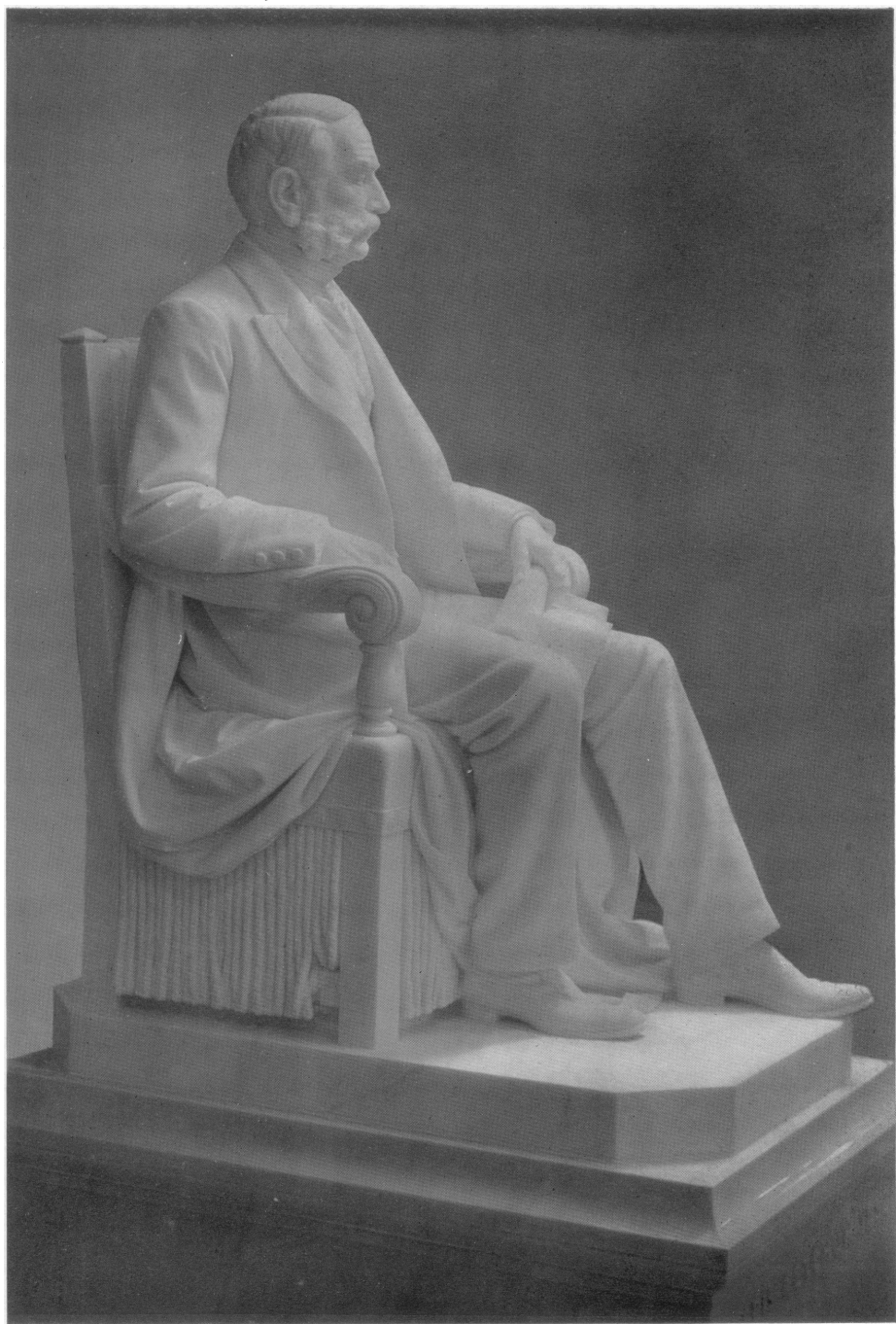
Prof. RALPH W. TOWER, A.B., A.M., Ph.D., Curator  
A. WOODWARD, Ph.D., In Charge of Maps and Charts

### *DEPARTMENT OF PUBLIC EDUCATION*

Prof. ALBERT S. BICKMORE, B.S., Ph.D., LL.D., Curator Emeritus  
GEORGE H. SHERWOOD, A.B., A.M., Curator







MEMORIAL STATUE OF MORRIS K. JESUP  
By William Couper, Sculptor

## FORTY-FIRST ANNUAL REPORT

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*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 submits herewith a report of the activities of the Museum during the year 1909.

Both the scientific and the administrative branches of the Museum, under the guidance of Director Hermon C. Bumpus, have made greater progress than in any previous year.

The past history and the future scope and plan of the Museum have continued to be subjects of very careful investigation and reflection. As intimated in the Fortieth Annual Report, it is of the utmost importance that the Trustees and the City should have before them an ideal plan of a complete and perfectly arranged Natural History Museum covering all the branches of natural science, so that all of the work of the Museum shall be so arranged as ultimately to become a part of the final plan. Opportunity often dictates what collections shall be secured, what halls shall be first arranged, what explorations shall be sent out. But a policy of opportunity is not a wise one for the future, which must prepare for the needs of a very much greater city than New York is at the present time in such a manner as to be a source of pride and a most efficient agent of public enlightenment in pure and applied science. This, together with the establishment of a great library, was among the original plans of the Founders of the Museum in 1869. Such a report on the future scope and plan has been prepared and submitted\* by the President, but it will not be published until it has received both the careful consideration and the approval of the Trustees.

### ENDOWMENT AND MAINTENANCE

An increase of the endowment is the greatest need of the Museum at this time. The present fund of \$2,195,645.92 should be increased to at least \$5,000,000. The munificent

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\* At the Annual Meeting, February 14, 1910.

bequest of Mr. Jesup has indirectly enabled the Trustees to extend the scientific staff (pages 13 and 14) for the first time to cover all the branches of natural history, some of which were, of necessity, slighted or set aside in the early development of the Museum. The gifts and special funds for the past year (pages 58 to 63) have been more liberal than ever before, and promise to increase year by year. Through these gifts a number of very important expeditions has been fitted out, including among others two to Africa, one to the East Indies, one to the Arctic Ocean and one to the pueblos of the South-western States. All of these special gifts increase our collections, but none of them provides for their installation and exhibition, which are the legitimate uses of the Endowment Fund, on the theory that the Trustees present the collections, while the City houses and cares for them. The uses of an increased Endowment Fund are to widen our already wide sphere of exploration, to further enrich our collections and to hasten the installation of material now in hand.

Similarly, to meet our present needs, the City Maintenance Fund should be increased to the legal limit of \$200,000. During the present year it has amounted to \$180,048.69. For purposes of bookkeeping the Maintenance Account has been kept separately, so that it does not show the deficit which actually exists this year of \$36,670.01 over and above the amount provided by the City. The Maintenance deficits between the years 1901 and 1909 have reached a total of \$152,665.93. Every dollar thus expended by the Trustees from the Endowment Fund and from special gifts is a direct loss to the City, because it means so much less expenditure on collections.

#### APPOINTIVE COMMITTEES

The various Appointive Committees have become important agents of the Museum's growth during the past year. Through special interest and through service of time and advice most generously volunteered, as well as through special subscriptions, these Committees are greatly increasing the efficiency of the administration. As at present established (see page 12) the Committees are as follows:

<i>Subject</i>	<i>Chairman</i>
Habitat Bird Groups,	JOHN L. CADWALADER
African Exploration,	JOHN B. TREVOR
Ethnology of the Southwest,	ARCHER M. HUNTINGTON
Antarctic Exploration,	ARCHER M. HUNTINGTON
Woods and Forestry,	GIFFORD PINCHOT
Fishes and Marine Life,	CLEVELAND H. DODGE
Minerals and Mines,	JAMES DOUGLAS
Indians of the Plains,	ARCHIBALD ROGERS

The Committees are composed partly of Trustees, partly of other friends and patrons of the Museum, and partly of distinguished men of science attached to other institutions. It will be observed that each Committee is devoting itself, in consultation with the Director, to one or more of the exhibition halls of the future, so that the chairman and other members may have the pleasure and satisfaction of seeing some definite results of their labors.

## MUSEUM EXTENSION

The Museum has already entered upon a method of *Museum Extension* on a scale which reaches almost the entire school system of the City through the circulation of small traveling museums. Within its walls there has been established a *Children's Room*, which promises to become a more important feature as time goes on and which deserves a special endowment fund of \$25,000. We have also made a beginning in reaching the blind through our *Museum for the Blind*, the first of its kind to our knowledge.\*

The Trustees should now consider the advisability of establishing *Branch Museums in Manhattan and the Bronx*, which would hold the same relation to the parent Museum as the Branch Libraries do to the New York Public Library. For example, a Branch Museum might be placed on the east side of the City, in the center of a population eager for education and keenly appreciative both of the Branch Library and of the free Lecture System. Such an institution should be the gift of some special benefactor and philanthropist; it should be amply endowed so as not to be a tax on the parent

\* This Museum has received a munificent endowment since December 31, 1909.

institution; it should enjoy a maintenance fund from the City which would provide merely for its up-keep and administration, but not for its collections. The parent Museum could contribute, without sacrifice, many admirable educational exhibits from its duplicate series. Such a Branch, which might well be established in coöperation with our sister institution, the Metropolitan Museum of Art, would be a great force in the Americanization of the newcomers of all lands who are crowding to the east side of our City.

## I. ADMINISTRATION AND BUILDING

SCIENTIFIC STAFF.—Several changes have been made in the personnel of the scientific staff. Owing to advancing years and failing health, Professor R. P. Whitfield has been obliged to give up active work as Curator of Geology and Invertebrate Palæontology and has been retired as *Curator Emeritus*. Dr. Edmund Otis Hovey, Associate Curator of the department since 1901, has been promoted to the curatorship.

In the Department of Anthropology, Professor Marshall H. Saville has resigned his position as Honorary Curator of Mexican Archæology and the staff has been strengthened by the appointment of Dr. Pliny E. Goddard, formerly of the University of California, as an Associate Curator, and of Dr. Herbert J. Spinden, of Harvard University, as an Assistant Curator. Mr. Harlan I. Smith, who has held an assistant curatorship in the department for the past nine years, has been made an Associate Curator.

A Department of Ichthyology and Herpetology has been established during the year, with Dr. Bashford Dean as its head. The appointment of Dr. Dean is a nominal change, as he has been a member of the scientific staff since 1903.

Mr. Barnum Brown has been made Assistant Curator of Fossil Reptiles and Mr. Walter Granger Assistant Curator of Fossil Mammals.

Recently the Trustees have created a Department of Public Health, and through a coöperative arrangement with President Finley of the College of the City of New York, the services of Professor Charles-Edward Amory Winslow have been

secured as Curator. This department will have for its aim the demonstration of the relation between man and the lower organisms. Professor Winslow will not begin active work, however, until July, 1910.

**BUILDING.**—While the new wing on Columbus Avenue (the south section of the West Façade) was formally accepted last year by the City from the contractors, much work remained to be done in decorating and casing before the halls could be occupied. Application for funds for furnishing and equipping this section of the building was made to the Board of Estimate and Apportionment, and, in July, \$100,000 was appropriated for this work.

At the request of the Trustees, Commissioner Henry Smith directed that the Department of Parks pave the entrance roadway on Seventy-seventh Street with asphalt block. This work was done at the expense of the Park Department and was not a draft on the Museum funds.

The contract for the construction of the service roadway, to enter the Museum grounds from Columbus Avenue, was let on July 1, 1909, to the Atlanta Contracting Company, and operations were begun at once on this much needed improvement. At the close of the year good progress had been made and the work was nearing completion.

The mechanical workshops have been moved from the east wing to the more commodious quarters in the basement of the new west wing. These shops have been equipped with electric motors for running the machinery, new benches, steam box and lockers. While these quarters are considerably larger than the old shop, they are quite insufficient for all our mechanical work, and temporary shops have been provided in various parts of the building.

The repairs are no small item in a building of this size, and as time passes these will necessarily increase. This work alone has kept a large force of carpenters, painters and other mechanics continuously employed throughout the year.

The adoption of a graded system of wages for the employees has produced satisfactory results. The efficiency of the force of attendants has been further improved by the

establishing of a grade known as floor sergeants who are under the direction of a captain. Each sergeant is in charge of a floor and is held responsible for the condition of the exhibition halls, as well as for the conduct of the attendants under his supervision. Under this arrangement the men take a greater interest in their halls and the results are practical.

At our request the United States Post Office Department has placed a mail box in the vestibule of the building and collections are made hourly from nine till four.

## II. PUBLIC EDUCATION

MUSEUM EXTENSION TO THE SCHOOLS AND LIBRARIES.—The Museum extension to the schools and libraries is in charge of the Department of Public Instruction, which in future will be known as the Department of Public Education.

This department coöperates with the City Board of Education and expends a large sum annually without receiving any special appropriation therefor.

The usual requests for the Nature Study Collections have been received and filled promptly. The routine work of distributing and transferring the collections occupies the time of two messengers. During the year 435 cabinets have been in circulation and the schools supplied number 419. Data supplied by the teachers show that the number of pupils studying these collections during the year was 922,512, which is a greater number than has been recorded in any previous year, and is an indication of their value as a teaching adjunct.

Some of the suburban schools also have been supplied with these collections at a nominal rental.

The method of sending special loan collections to the public libraries, which was begun last year, has been continued during the present year. The collections have been prepared at the request, and with the assistance, of Misses Moore and Tyler of the Public Library staff, and include material illustrating life in the Arctic, and the habits and costumes of the Indians, the Chinese, the Filipinos, etc.

LECTURES TO SCHOOL CHILDREN.—Two courses of lectures, supplementing class-room work in geography and history,







CHILDREN'S ROOM

were arranged and delivered at the Museum during the fall and spring. The attendance at these lectures was 17,172.

**CHILDREN'S ROOM.**—Early in the year the room located near the main entrance on the second floor was opened for children. This room has been equipped with low tables and kindergarten chairs, and near by are children's books, modeling clay and tools. It is open regularly on Wednesdays and Saturdays, and children are encouraged to study, draw and model from the mounted and living specimens. As many as two hundred children have attended in one day. On Wednesday afternoons the class is held for the children of Members.

**ROOM FOR THE BLIND.**—The Branch Library at 83d Street and Amsterdam Avenue makes a specialty of books for the blind, and this fact suggested to the Museum authorities the idea of setting aside a room for the blind. Here are assembled objects of natural history, which can be handled without damage. These specimens are accompanied by special labels printed in raised letters. We are indebted to Miss Goldthwaite, who is in charge of the library for the blind, for many helpful suggestions and for the printing of the labels. Recent statistics show that there are 6,165 blind people in the State of New York, and this innovation of the Museum has met with the most emphatic approval.

In addition to the extension work, this department has charge of the photographic work of the Museum, which during the past year has reached large proportions.

**ASTRONOMY.**—In the future Museum it is evident that a hall devoted to the science of cosmology should be provided. The astronomical clock and representation of the solar system in the foyer have proved to be exhibits of exceptional interest.

In view of the public interest in Halley's Comet, a representation of its orbit has been placed in the foyer, showing its relation to the sun and the earth.

**ATTENDANCE.**—The total number of visitors for the year was 839,141, a figure which is greater than that of any previous year with the exception of 1908, when there was a phenomenal attendance at the Tuberculosis Exhibition. This increase is

especially gratifying when it is considered that the abolishing of the transfer system on the surface cars has unquestionably deprived many, who could not afford the extra carfare, from visiting the Museum.

The free lectures given in coöperation with the Board of Education, the New York Academy of Sciences and Affiliated Societies were attended by 48,988; Mrs. Roesler's lectures by 1,136 and those for school children by 20,165.

### LECTURE COURSES

The lectures delivered at the Museum during the year number 139. These include (1) a spring and fall course to Members; (2) a spring and fall course for the pupils of the public schools; (3) free lectures on public holidays; (4) a course of Jesup Lectures, given under the auspices of Columbia University; (5) four lectures on biology for the Normal College and High Schools of Manhattan; (6) special lectures in conjunction with the New York Academy of Sciences, Lincoln Centenary Committee, etc., and (7) three courses given in coöperation with the Board of Education of the City of New York.

The following lectures to Members were delivered by members of the scientific staff and others:

#### LECTURES TO MEMBERS

March	4.—Birds in Their Relation to Man.....	Frank M. Chapman
"	11.—The Conservation of Our Rivers and Lakes.....	Charles H. Townsend
"	18.—The Conservation of Natural Scenery in America....	J. Horace McFarland
"	25.—Conservation from Palisades to Adirondacks.....	Edward Hagan Hall
April	1.—Hunting with Canoe and Camera in New Brunswick..	William Lyman Underwood
November	18.—Alaska and the Exploration of Mt. McKinley.....	Herschel C. Parker
December	2.—Camera Adventure in the Wilds of Africa.....	A. Radclyffe Dugmore
"	9.—With Peary in the Arctic.....	Donald B. McMillan
"	16.—The Coast of Brittany and the Industries of the People.....	Hugh M. Smith

PUBLIC LECTURES ON HOLIDAYS

- New Year's Day, January 1.—Florida Bird Life (with moving pictures),  
Frank M. Chapman  
Washington's Birthday, February 22.—Food and Game Fishes of the  
Eastern United States—Habits and Methods of Cap-  
ture ..... Roy W. Miner  
Thanksgiving Day, November 25.—The Fiji Islanders and Other  
People of the South Seas..... Charles H. Townsend  
Christmas Day, December 25.—By Canoe to Hudson Bay... Alanson Skinner

LECTURES FOR CHILDREN

The lectures for pupils of the public schools and for the children of Members were continued during the spring, as follows:

- March 8 and 29.—New York City in Colonial Days..... R. W. Miner  
" 10 " 31.—Japan and Her People..... Louis Hussakof  
" 12 " April 16.—The Panama Canal..... E. O. Hovey\*  
" 15 " " 19.—Famous Rivers of the World..... Walter Granger  
" 17 " " 21.—Natural Wonders of Our Country..... R. W. Miner  
" 19 " " 23.—American Forests and Their Uses.. G. H. Sherwood  
" 22 " " 26.—Mediterranean Countries, Ancient and  
Modern..... Walter Granger  
" 24 " " 28.—The American Indian of To-day..... H. I. Smith  
" 26 " " 30.—Travels in the Western States..... Barnum Brown†

A fall course was given as follows:

- October 25 and November 15.—The Development of New York City,  
R. W. Miner  
" 27 " " 17.—Life in the Arctic Regions.....  
Mrs. A. L. Roesler  
" 29 " " 19.—American Forests and Their Uses...  
G. H. Sherwood  
November 1 " " 22.—Scenes in the British Isles.. Louis Hussakof  
" 3 " December 1.—Life Among Our Indians..... H. I. Smith  
" 5 " " 3.—Animals Helpful to Man..... R. W. Miner  
" 8 " " 6.—Mining Industries of the United  
States..... E. O. Hovey  
" 10 " " 8.—Animals Injurious to Man..... F. E. Lutz  
" 12 " " 10.—Travels in South America.. Louis Hussakof

\* On March 12, owing to the absence of Dr. Hovey, this lecture was delivered by Mr. R. C. Andrews.

† On March 26 and April 30, owing to the absence of Mr. Brown, this lecture was delivered by Mr. R. C. Andrews.

*Report of the President*

## COLUMBIA UNIVERSITY LECTURES

*In coöperation with the Museum*

A series of lectures on Light, arranged by Columbia University and begun in 1908, was continued as follows (Dr. Richard C. Maclaurin, lecturer):

- January 6.— VI. The Exact Laws of Reflection and Refraction and Their Bearing on the Construction of Optical Instruments  
 “ 13.— VII. Optical Properties of Crystals  
 “ 20.—VIII. The Principle of Interference and Its Explanation of Various Colour Phenomena  
 “ 27.— IX. The Measurement of Light Waves and the Theory of Diffraction

February 3.— X. Some Relations Between Light and Electricity

Four Lectures on Biology, arranged by the Biology Departments of the Normal College and the High Schools of Manhattan, given on Thursday afternoons :

- January 14 and May 20.—American Forests and Their Uses ..... George H. Sherwood  
 February 18.—Our Atlantic Fisheries.....Hermon C. Bumpus  
 March 18.—Public Health.....Josephine Baker  
 April 15.—Natural History of Animals.....Henry E. Crampton

## SPECIAL LECTURES

Under the auspices of the New York Academy of Sciences

*In coöperation with the Museum*

- February 4.—Austria and its Beauties.....Felix Leibinger

Under the auspices of the Lincoln Centenary Committee of the City of New York

- February 12.—Abraham Lincoln..... W. W. Ellsworth

## BOARD OF EDUCATION LECTURES

*In coöperation with the Museum**Tuesday evenings*

A Course of Eight Lectures on “Asia”

- January 5.—The East and the West and Their Different Ideals, Ian C. Hannah  
 “ 12.—China's Everlasting Empire..... “  
 “ 19.—England's Eastern Empire..... “  
 “ 26.—The Russian March Across Asia ..... “  
 February 2.—Japan's Transformation..... “  
 “ 9.—America as an Asiatic Power ..... “  
 “ 16.—World Organization.....Mrs. Lucia Ames Mead  
 “ 23.—Mohammed and Mohammedanism.....Isya Joseph

A Course of Nine Lectures on Architecture

March	2.—Rome.....	A. D. F. Hamlin
"	9.—Constantinople .....	"
"	16.—Venice.....	"
"	23.—History of Architecture as seen in New York Buildings, Joseph M. Tilden	
"	30.—Paris.....	A. D. F. Hamlin
April	6.—London.....	"
"	13.—New York .....	"
"	20.—Florence, Cradle of the Renaissance.....	Francis M. Strickland
"	27.—Berlin, and Military Life in Germany.....	Henry Zick

A Course of Eleven Lectures on North America

October	5.—Uncle Sam's Farm.....	Charles S. Bullock
"	12.—The Pacific Northwest.....	Edward Russell Perry
"	19.—Northern California.....	Homer C. Bristol
"	26.—Southern California... ..	"
November	2.—The Historic Alamo City.....	R. Cornelius Raby
"	9.—The Yosemite Valley .....	Miss Mary V. Worstell
"	16.—The Canadian Rockies.....	Benjamin S. Comstock
"	23.—Across the New England States.....	Edward P. Crowell
"	30.—The Land of the Big Red Apple—Oregon .....	J. R. Lynch
December	7.—The White Hills .....	George Newton Cross
"	14.—The City of Washington.....	"

*Saturday Evenings*

A Course of Eight Lectures on Natural Science

January	9.—The Development of the Milk Industry... ..	Lafayette B. Mendel
"	16.—Adirondack Forest.....	James F. Whipple
"	23.—The Physiology of Growth.....	Lafayette B. Mendel

Three Lectures on "Forestry," given with the coöperation of the  
Forest Service, Department of Agriculture,  
Washington, D. C.

January	30.—Forests and Waters.....	William L. Hall
February	6.—National Forest Policy .....	H. A. Smith
"	13.—Conservation of Natural Resources.....	Overton W. Price
"	20.—The Life History of a Lake.....	Herbert E. Gregory
"	27.—Earthquakes.....	Cyrus C. Adams

A Course of Eight Lectures on Sociology

March	6.—The Man That is Down and Out.....	Orlando F. Lewis
"	13.—The Treatment of Prisoners.....	"
"	20.—Our Hospitals and Asylums.....	"
"	27.—Modern Ways of Helping Others.....	"

- April 3.—Child Labor in America .....Owen R. Lovejoy  
 “ 10.—The Children's Court.....Ernest K. Coulter  
 “ 17.—The Processes of American Government.....Franklin A. Rose  
 “ 24.—The City Beautiful, or the Planning and Embellishment of Cities,  
 Arthur Alexander Stoughton

A Course of Eleven Lectures on “Inorganic Chemistry,”  
 by William L. Estabrooke, Ph.D.

- October 9.—Physical and Chemical Change  
 “ 16.—Oxygen and Ozone  
 “ 23.—Hydrogen and Hydrogen Peroxide  
 “ 30.—Water  
 November 6.—Chlorine and Hydrochloric Acid  
 “ 13.—Fluorine, Bromine and Iodine  
 “ 20.—Nitrogen and Its Oxides; Nitric Acid and Ammonia  
 “ 27.—Carbon and Some of Its Compounds  
 December 4.—Carbon Dioxide and Ventilation  
 “ 11.—The Atmosphere  
 “ 18.—Combustion and the Flame

## HOSPITALITY TO SCIENTIFIC SOCIETIES

Many are the requests that are received by the Museum from various scientific societies and organizations for the use of the lecture and conference rooms, and so far as it is consistent with the aims of the institution, these requests have been granted.

On February twelfth was held the celebration of the one hundredth anniversary of the birth of Charles Robert Darwin and the fiftieth anniversary of the publication of “The Origin of Species.” At this time there was unveiled a bronze bust of Darwin, the work of Mr. William Couper and the gift of the New York Academy of Sciences. The presentation address was made by Mr. Charles Finney Cox, the Academy's president, and the bust was accepted on behalf of the Trustees of the Museum by President Henry Fairfield Osborn. The exercises were held in the Synoptic Hall, which, in view of the permanent installation of the bust and of the exhibit of the zoölogical material so closely associated with his name, was rededicated by the Trustees as the “Darwin Hall of Invertebrate Zoölogy.”

Another gathering of note was the Twenty-seventh Stated Meeting of the American Ornithologists' Union, one of the



oldest scientific organizations in America. The members were the guests of the Museum from December sixth to the tenth, and reported a successful series of meetings.

Two special exhibits, which attracted many visitors and which were enjoyed by all, were the Annual Exhibition of the National Sweet Pea Association (held July 7 and 8) and the Annual Exhibition of the Horticultural Society of New York (held November 3 to 7). The latter occupied the foyer and the three adjoining halls, and the display was one of exceptional beauty. The attendance at this exhibition was more than 30,000.

The following is a complete list of the societies and organizations which were the guests of the Museum in 1909:

- American Bison Society
- American Ethnological Society
- American Ornithologists' Union
- American Psychological Association, New York Branch
- Audubon Society of the State of New York
- Brooklyn Entomological Society
- Century Association
- Charity Organization Society
- Geological Society of America
- Horticultural Society of New York
- Linnaean Society of New York
- Naples Table Association
- National Association of Audubon Societies for the Protection of Wild Birds and Animals
- National Sweet Pea Association
- New York Academy of Sciences
- New York Entomological Society
- New York Microscopical Society
- New York Mineralogical Club
- Palæontological Society
- Playground Association of America
- Torrey Botanical Club
- West Side Natural History Society

### III. EXPLORATIONS, COLLECTIONS AND EXHIBITIONS

EXPLORATIONS.—The field operations of the Museum, through its expeditions and field agents, have been quite as extensive as in former years. The funds appropriated by the

City cannot be used for the maintenance of these parties, and it is largely through the income from the bequest of Mr. Jesup that this work has been carried on. During the past year the Museum has had representatives in the following localities:

#### EXPLORATIONS BY MUSEUM PARTIES OR REPRESENTATIVES

##### *In United States*

ALASKA	MASSACHUSETTS	OHIO
ARIZONA	MICHIGAN	VIRGINIA
FLORIDA	MONTANA	WISCONSIN
MAINE	NEW MEXICO	WYOMING
	NORTH DAKOTA	

##### *In Foreign Countries*

<i>Arctic America</i>		<i>Canada</i>
ELLESMERE LAND		JAMES BAY
GREENLAND		QUEBEC
SOUTHAMPTON ISLAND		ONTARIO
BRITISH COLUMBIA	INDIA	PHILIPPINE ISLANDS
BRITISH EAST AFRICA	JAPAN	SAMOA
CELEBES	KOREA	TAHITI
EGYPT	MEXICO	TRINIDAD
HAWAII	NEW ZEALAND	VENEZUELA
	NICARAGUA	

#### MINERALS

DEPARTMENT OF MINERALOGY.—The Bement Collection of Minerals, presented to the Museum several years ago by Mr. J. Pierpont Morgan, is so extensive that cataloguing it in an adequate manner is no small task. The special card catalogue of this collection is nearing completion. More than 16,000 cards have been written, and less than 1,000 specimens remain to be identified.

The income from the Bruce Fund has again been usefully applied toward enriching the collections, and fifty-five specimens, either quite new to the collections, or important for their possession of new features or great beauty, have been added in this way.

Owing to limited space, an appropriate installation of the minerals cannot now be made, but it is expected that this will be remedied when the collections are rearranged in the new hall in the west wing.





A FLORIDA ROOKERY. Reproduced from studies made by Mr. Frank M. Chapman in March, 1908, at Cuthbert Rookery in the great Mangrove Swamp south of the Everglades. (North American Ornithology Fund)

## MAMMALS AND BIRDS

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—Important additions have been made to the collections of both mammals and birds. These include mammals from Nicaragua, the Philippine Islands and Arctic America, and birds from Japan, Formosa and Nicaragua.

The most important collection received during the year includes a large series of musk-oxen, a still larger series of the Peary caribou, a number of walrus skulls and scalps, a series of narwhal tusks, and a large number of lemmings and foetal specimens of seals, walrus, narwhal, arctic fox and lemming in alcohol. All of the above was obtained by Commander Robert E. Peary in northern Ellesmere Land and Greenland and turned over to the Museum by the Peary Arctic Club. Other desirable additions were several antelope and specimens of big game from British East Africa, the gift of Messrs. E. Hubert Litchfield, Bayard Dominick, Jr., and Henry Sampson, Jr.

Several mammals and birds in the flesh have been received from the New York Zoölogical Society and the Central Park Menagerie, and we wish to acknowledge these.

The mammals acquired during the year number 625; the birds, 1,616 specimens.

The department has been fairly well represented in the field. Mr. Roy C. Andrews of the Museum staff made a trip early in the year to Tadousac, Quebec, to obtain specimens of the smaller cetaceans, securing three skeletons and a series of skulls of the white whale. Later he was sent to the Philippine Islands to join the staff of the steamer "Albatross" of the United States Fisheries Bureau, to make collections of natural history material in the interest of the Museum.

Mr. R. M. Anderson has continued his explorations in Arctic America in connection with Mr. V. Stefánsson, but as yet no definite report of his work has been received. Mr. Anderson is expected to come out in the summer of 1910.

Mr. M. A. Carriker, Jr., who has planned a long collecting trip to South America, and is now at work in Venezuela, has been commissioned to procure mammal materials for us.

A small instalment from the island of Trinidad has already been received.

Mr. W. B. Richardson has finished his work for the Museum in Nicaragua, having sent us during the year 177 mammals and 753 birds.

By far the most important and the best equipped expedition was sent into the Belgian Colony of the Congo under the direction of Messrs. Herbert Lang and James Chapin. It is the purpose of this expedition to make a biological survey of the Congo, paying particular attention to the smaller and less conspicuous animals. Owing to the very cordial relations existing between the Museum and the Belgian officials, our representatives have been able to secure unusual concessions, and everything points to very successful results. Messrs. Lang and Chapin entered the Congo in June, and on August 14 were at Stanleyville, whence they were about to journey into the Upper Ituri district for an absence of six months.

The entire expense of this expedition has been borne by several friends of the Museum, as noted in the financial statement, and the Belgian government contributed \$1,329.13 toward the work.

An event of the year was the opening of the west side of the gallery of Habitat Bird Groups. This was signalized by a reception to the patrons and bird lovers, which was followed by a special reception to Members. Both of these were well attended.

These groups show in a striking manner the home life of typical North American birds in their natural surroundings, and their preparation has been made possible through the generous contributions of the subscribers to the North American Ornithology Fund. The groups furnished during the year include the Bahama Island, the Cuthbert Rookery, the Golden Eagle, the Ptarmigan, the Klamath Lake, the Sage Hen, the Wild Goose, the Grebe, and, finally, the Loon and the Turkey Buzzard, which complete this important series.

The wide-spread interest in this method of presenting bird life to the public induced a number of friends of the Museum to subscribe to a second bird group fund, and under this grant a series of seasonal bird groups is being prepared. Mr. Chapman has already undertaken some of the necessary field work.

The routine work of the department has progressed. Fire-proof storage cases of superior design have been devised and constructed for the skins of large mammals, and the study collection has been in part rearranged.

In addition to his department duties, the Curator has continued the editorship of the *Bulletin*, a task which absorbs more and more of his time.

## EXTINCT MAMMALS AND BIRDS

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The activities of this department in the field were limited to two expeditions, both of which were very successful: one to the Laramie Cretaceous of Montana, under the direction of Mr. Barnum Brown; the other to Wyoming for exploration of the Tertiary formations of the Wind River Basin, under Mr. Walter Granger.

Among Mr. Brown's finds, especially noteworthy are a nearly complete skeleton and a complete skull and jaws of the gigantic horned dinosaurs or ceratopsians, and portions of three skeletons of a new orthopodous dinosaur.

After concluding the work in Montana, Mr. Brown proceeded to Didsbury, Alberta, Canada, and made a reconnaissance in this region, where he found abundant fossil remains and a fertile field for future work.

In Wyoming, Mr. Granger and his party explored the fossil beds of the Beaver Divide, a region which apparently had not previously been worked by collectors, the Lost Cabin region, Muddy Creek on the Shoshone Reservation and the Crowheart Butte. The material he obtained consists chiefly of small mammals, and, while not of a character to make showy exhibition specimens, it is especially valuable from a scientific standpoint. The geologic results of this expedition are especially noteworthy.

Considerable attention has been given by Dr. Matthew to perfecting the catalogue of the department material. Especially has he devoted his time to the preparation of a catalogue of the published specimens.

Pending the assignment of a new exhibition hall, few changes have been made in the exhibition series, the present congested condition of the halls making new additions impracticable. Several specimens have been or are being mounted for exhibition. Among these mention may be made of skeletons of three of the ancient and peculiar reptiles and amphibians of the Permian Period, *Diopseus*, *Diadectes*, *Eryops*, which are among the oldest of large land animals; a skeleton of *Camptosaurus*, a small herbivorous dinosaur; a skeleton of *Tyrannosaurus*, the gigantic carnivorous dinosaur; a skeleton of *Hesperornis*, the extinct toothed diving bird of the Cretaceous seas, and a *Trachodon* skeleton with skin. This last, perhaps, is the most important acquisition of the year. It is absolutely unique, showing the character of the body covering of this giant dinosaur. It was found in Wyoming in 1908 by Mr. Charles H. Sternberg, and is the gift of Mrs. Morris K. Jesup.

Several desirable additions have been made through exchange with other institutions and negotiations are pending which will greatly increase our collections.

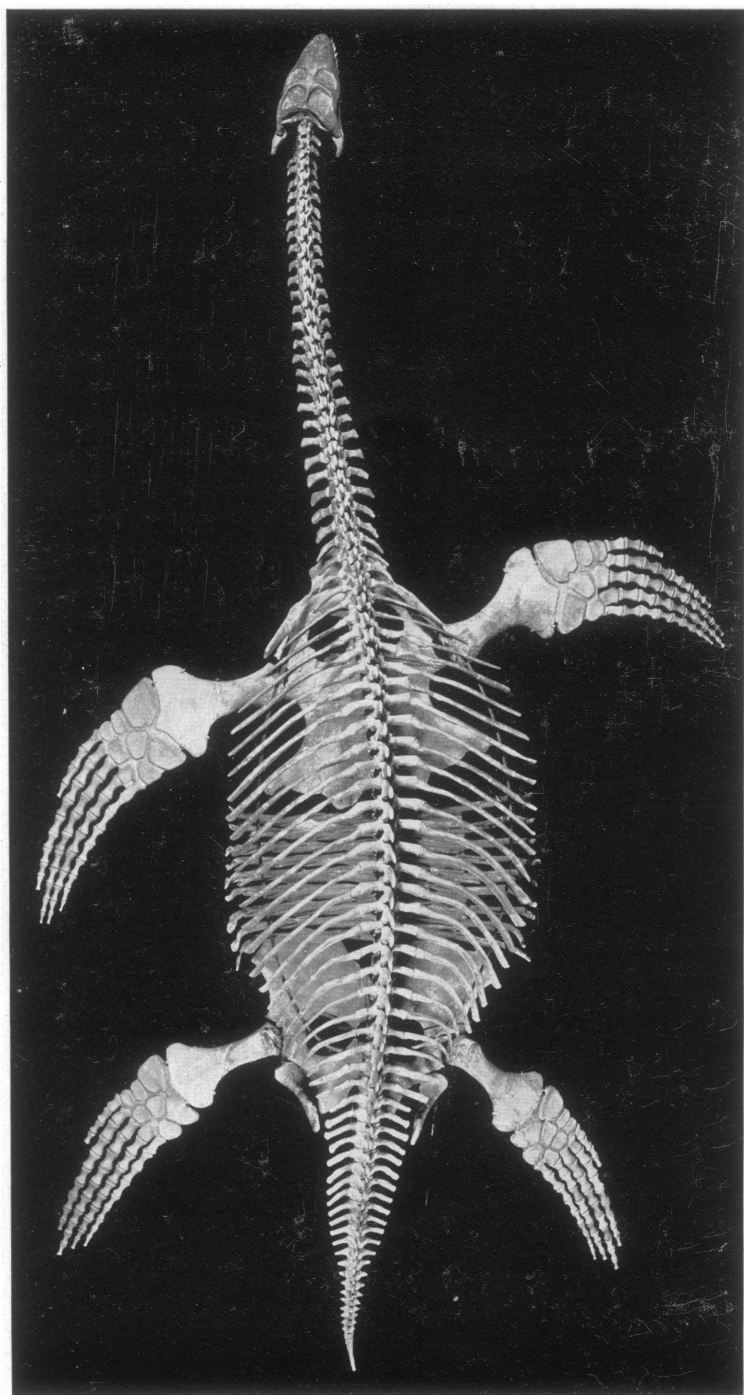
The staff has displayed its usual activity in research, as evidenced by the papers published, which are enumerated under the section "Publications."

#### <sup>4</sup> LIVING AND EXTINCT REPTILES, BATRACHIANS AND FISHES

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY.—Until lately the reptiles, fishes and batrachians have been cared for by the Department of Invertebrate Zoölogy, but realizing the need of developing this branch of the Museum's collections, the Trustees created a Department of Ichthyology and Herpetology, which was organized in July and Dr. Bashford Dean of Columbia University, who had been Curator of the Division of Fossil Fishes of the Museum's Department of Vertebrate Palæontology since 1903, was appointed Curator. Dr. Louis Hussakof, Assistant Curator of Fossil Fishes, Miss Mary C. Dickerson, Assistant on living reptiles and batrachians, and Mr. John Treadwell Nichols, Assistant on living fishes, constitute the staff of the new department.







A PLESIOSAUR OF EXTINCT MARINE REPTILE OF THE JURASSIC PERIOD (*Cryptoclidus oxoniensis*), from the Oxford Clays, Peterborough, England. Exchange from British Museum, 1902. Restored and mounted, 1909

The study collections have been examined, recatalogued and inventoried. This inventory shows in round numbers the following specimens and species:

	Number of specimens	Number of species
Fishes (living).....	2,100	600
Fishes (fossil) .....	8,900	800
Amphibians.....	1,775	150
Reptiles .....	4,500	550

The department is fortunate in having a generous fund at its disposal through the endowment of Mr. Cleveland H. Dodge. All important accessions are due to this fund.

In the Hall of Fossil Fishes the acquisition of new material has made desirable certain readjustments in the exhibition series. Above the main entrance a restoration of the jaws of a gigantic shark, *Carcharodon megalodon*, has been displayed. An innovation in the installation is the introduction of an "aquarium" containing a dozen or more models of fishes illustrating the fossils in the adjoining cases. The types represented occur in a single horizon and in a single locality in the Old Red Sandstone of Scotland.

In the Gallery of Recent Fishes few changes have been made. These consist mainly in the introduction of characteristic forms which hitherto have not been represented.

Progress has been made in the preparation of a large bullfrog habitat group by Mr. Dwight Franklin, designed to epitomize the activities and economics of this, our most typical, amphibian.

Collecting has been carried on in Puget Sound by Dr. Edwin C. Starks, under a grant from the Dodge Fund; in North Carolina, by Dr. Hussakof and Mr. Russell J. Coles; on Long Island, by Mr. Nichols, and a well-equipped expedition, under the direction of the Messrs. Ernesto and Alessandro Fabbri, has begun its collecting work among the Florida reefs, on the yacht "Tekla." Almost the entire equipment has been provided by the Messrs. Fabbri, who have also generously offered their vessel and their services for the furtherance of the scientific work of this department.

## MODERN INVERTEBRATES—DARWIN HALL

In the past the invertebrates have been in the custody of several departments which were not intimately related. The appointment of Dr. Henry E. Crampton as Curator of the Department, and the addition of Doctors Lutz, Petrunkevitch and Treadwell to the scientific staff made a reorganization desirable which would bring all of the invertebrate material in one department. The previously independent Department of Entomology was fused with this department and Mr. William Beutenmüller was made Associate Curator of Lepidoptera. Later Mr. L. P. Gratacap was made Curator of Mollusca. By these changes the insects and molluscs have been brought in closer correlation with those of the other invertebrate groups. For some years the lower vertebrates, including reptiles, batrachians and fishes, have been in the charge of this department; now, however, they have been transferred to the newly established Department of Ichthyology and Herpetology.

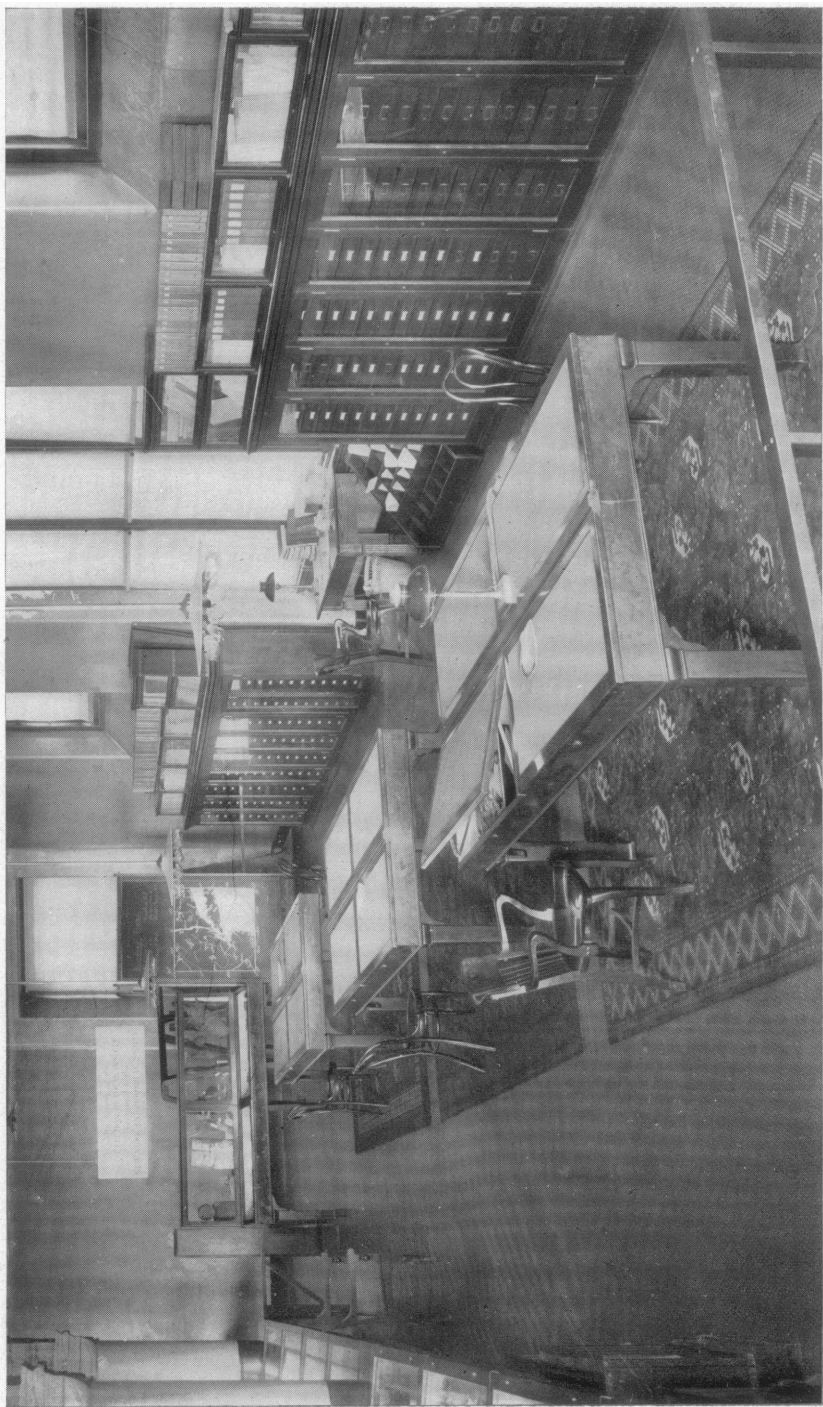
The exhibition material in the Darwin Hall has received careful attention, and many new installations have been added to the exhibition. These include a Bahama Echinoderm Group showing an association of echinoderms and other invertebrates in the neighborhood of a coral reef; a Bahama Sponge Crab Group centering about an association of the sponge crab with a large reef sponge; a Bahama Oyster and Mangrove Crab Group, and the Cold Spring Harbor Group showing an association of mussels, fiddler crabs, oysters and other invertebrates commonly found together on the Long Island shores.

The preparators have also completed about twenty models in glass and wax, including specimens of protozoa, polyps, worms and snails. The models illustrate the form and anatomical structure of these organisms which cannot well be illustrated by natural specimens. Other models are in process of preparation.

## HALL OF LOCAL INSECTS AND INSECT BIOLOGY

Several changes have been made in the Insect Hall. The taxonomic collection of local insects has been moved from





COLLECTION OF LOCAL INSECTS. Under the joint custody of the New York Entomological Society and the Museum

open cases into cabinets where it is available to the public on request, and the Hoffman Collection of Butterflies has been withdrawn from exhibition because many of the beautiful specimens were deteriorating in the strong light. It has been decided to make this the Hall of Local Insects and Insect Biology.

One side of the hall has been converted into a room where visitors are given every facility for serious study of the local insects. The remaining space is devoted to exhibits which aim to give a fairly thorough course in theoretical and applied entomology. The displays are being arranged according to problems rather than according to taxonomic divisions. For example, one case is being devoted to household insects, another to aquatic insects, one to the geographical distribution of insects, and so on. In the section concerned with social insects, a group of "fungus growing ants" has been installed, and a large group of "mound building ants" is under construction. This is merely applying to insects the method long used with mammals and birds, namely, that of putting the animals on exhibition in natural positions instead of mounting them on pins.

The New York Entomological Society, with the coöperation of Dr. Lutz, has taken an especial interest in the development of the collection of local insects. This collection has been placed in the custody of the Society and has been installed in a section of the Hall of Local Insects, which is also used by the Society for its meetings,—an arrangement that is mutually advantageous.

The general insect collections have been temporarily continued in charge of Mr. Beutenmüller. During the year 2,800 specimens of Lepidoptera and over 1,200 insects of other orders have been mounted. There are still on hand about 20,000 unmounted specimens of Lepidoptera. The entire collection of colored-winged moths has been arranged and labeled. This collection is an exceedingly valuable one, and is the best extant so far as North American species are concerned.

On account of the extensive reorganization of this department, the scientific work has been more or less interrupted,

but considerable progress has been made by the members of the staff in their respective investigations.

The department has been well represented in the field. Dr. Crampton visited several groups of islands of the South Pacific in order to extend his studies upon the evolution of terrestrial snails. Among the localities visited were the Society Islands, the Cook Islands, New Zealand, Tonga Islands, Samoa, Fiji, and Hawaii. In addition to zoölogical collections, Dr. Crampton secured considerable anthropological material.

A trip to Mexico and Texas was undertaken by Dr. Alexander Petrunkevitch during the months of July and August, in order to collect spiders and to investigate their habits. Dr. Petrunkevitch brought back with him a valuable collection comprising many fine specimens not only of spiders but of other invertebrates and also of reptiles and amphibians. His collections were made in spite of extremely adverse conditions caused by unexpected floods.

An expedition to Dry Tortugas was undertaken by Prof. Aaron S. Treadwell during the summer months. Professor Treadwell secured a valuable series of the annulates of these islands.

Mr. Miner spent the months of July and August in the Woods Hole region collecting invertebrates for the Museum's study collections and gathering data for models and groups for the exhibition series. With the aid of several members of the preparation staff many sketches of living invertebrates were secured, and a large collection of preserved material was brought back to the Museum.

The fifth expedition was to the vicinity of the Ashokan Watershed, under the direction of Professor Treadwell, who undertook the work of making a biological survey of that region. The funds for financing the expedition were contributed by Mr. S. D. Coykendall.

### EXTINCT INVERTEBRATES

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALEONTOLOGY.—It is with regret that we announce the retirement at the end of the year of Professor R. P. Whitfield from active



service in the department. Advancing age and continued ill-health have made it necessary for him to give up his work, and the Trustees have taken pleasure in appointing him *Curator Emeritus* of the Department. Professor Whitfield came to the Museum in 1877, and during this period of more than thirty-two years he has labored efficiently in developing the Museum's collection of fossil invertebrates.

Dr. Edmund Otis Hovey, who has been in the department for sixteen years, first as Assistant Curator and later as Associate Curator, has been promoted to the curatorship, the appointment dating from January 1, 1910.

During the past year the collections have been enriched through the purchase of a slab about five feet square showing sixty-eight bodies (with arms) of the crinoid *Uintacrinus socialis* and a giant lamellibranch shell, *Inoceramus platinus* (?), more than four feet across. Both of these specimens are from the Niobrara Cretaceous beds of Kansas. Another important purchase was that of a series of Cretaceous fossils from the Mt. Lebanon district of Syria.

The geological material of the department has been under the immediate care of the Associate Curator, Dr. Edmund Otis Hovey. Under his direction the routine work of accessioning and cataloguing the material received has been accomplished. In addition to his regular department work, Dr. Hovey has continued his editorship of the *Museum Journal* and the Guide Leaflets, in which he has been ably assisted by Miss Mary C. Dickerson.

Among the material acquired during the year, first place must be given to the meteorites. Although the three Cape York meteorites (one of which is the largest known), or the "Peary" meteorites, as they are sometimes called, have been on deposit in the Museum for several years, it was not until 1909 that their purchase was finally concluded and that these unique specimens actually became the property of the Museum. This was accomplished largely through the instrumentality and generosity of Mrs. Morris K. Jesup.

The acquisition of three such specimens is noteworthy, but in addition the Museum has acquired by purchase a twenty-pound fragment (the largest known) of the Modoc stone

meteorite, and the Guffey iron meteorite weighing 682 pounds. The last is new to science, and we have all that is known to be in existence of the specimen. The addition of these five specimens gives the Museum one of the largest collections of meteorites in the world, and one which can never be duplicated.

Other gifts of note are a series of ores illustrating the copper and silver deposits of the Calumet and Hecla Mines, donated by the Calumet and Hecla Mines Company, and an unusually well preserved large fossilized tree stump from an abandoned anthracite coal mine under Scranton, Pennsylvania, received from the Delaware, Lackawanna and Western Coal Company. Through the financial aid of Dr. C. E. Slocum, of Defiance, Ohio, and with the coöperation of the Kelley's Island Lime and Transport Company, the Museum has secured two blocks of limestone 8' x 10' and 4' x 4' respectively, from Kelley's Island, Ohio, the surface of each showing deep and perfect glacial grooves as well as glacial polishing.

## LIVING AND EXTINCT RACES OF MEN

DEPARTMENT OF ANTHROPOLOGY.—Special attention has been given to the material in the exhibition halls. In the Northwest Coast Hall the collections have been rearranged in a geographical sequence, so that the visitor in passing from south to north through the hall encounters the tribes as if he were actually traveling from south to north in the country. Four new paintings of Arctic scenes by Mr. F. W. Stokes have been added to the Arctic section of this hall, thereby completing the series of mural paintings provided through the courtesy of Mr. Arthur Curtiss James.

In connection with the Hudson-Fulton Celebration, a special exhibition of the archæology and ethnology of Greater New York and the Hudson Valley was installed in the west hall on the first floor, which it is intended shall remain as a permanent part of the North American type series.

The large ethnological collection from the Fiji Islands, the gift of Mrs. Morris K. Jesup, has been catalogued.

Under the direction of Dr. R. H. Lowie, progress has been made in the preparation of the African Hall, for which





KNOWLES, OKLAHOMA, METEORITE. A nickel-iron meteorite weighing 355 pounds. Length 18 inches, height 14 inches. Found in 1905 near Knowles, Oklahoma

decorative panels, representing African scenes, have been painted by Mr. Albert Operti. In this hall the arrangement will be geographical.

The scientific staff of the department has been augmented by the appointment of Dr. Pliny E. Goddard as an Associate Curator and of Dr. Herbert J. Spinden as an Assistant Curator. Dr. Goddard comes from the University of California and is unusually well equipped to take up ethnological work.

The department has been well represented in the field, nine parties having been actively at work for longer or shorter periods.

Under the special patronage of Mr. Archer M. Huntington and with the advice of the Committee on Primitive Peoples of the Southwest, of which Mr. Huntington is Chairman, the Museum is carrying on extensive exploration and investigation among the Indians of the Southwestern States. This work is being done by Doctors Goddard and Spinden. Dr. Goddard is devoting himself to the nomadic tribes of the area, a work for which he is especially well equipped, and Dr. Spinden is at work among the Pueblo Indians. The culture of these people is extremely complex and in consequence offers an inviting field. Both Dr. Goddard and Dr. Spinden have secured collections which make valuable additions to our exhibition series.

In June Mr. Harlan I. Smith left for the North Pacific coast of America, returning in September. He resumed his archæological reconnaissance, carrying it northward from the northern end of Vancouver Island as far as Skagway, Alaska. He located ancient village sites, shell-heaps and petroglyphs, and secured many photographs. Mr. Smith was accompanied by Mr. Will S. Taylor, a mural artist, who made color studies in oil of the Indians and their environment, which will be the basis of the mural decorations that Mr. Taylor has been commissioned to paint for the Northwest Coast Hall.

During the summer months Mr. Alanson Skinner visited the Northern Ojibway and Eastern Cree of the region south of Hudson Bay where he obtained many notes and specimens. Mr. Skinner also visited the Stockbridge, Oneida, Menominee and Winnebago of Wisconsin, obtaining from the latter an

extensive collection, especially rich in household utensils and costumes.

Mr. Gilbert L. Wilson made a second visit to the surviving Hidatsa and Mandan Indians in North Dakota to continue his ethnological research. He reports this work especially successful.

Captain George Comer has returned from the Arctic with a good collection from ancient village sites on Southampton Island and the northwestern shores of Hudson Bay.

The Curator himself has visited Doctors Goddard and Spinden in the field and made a general survey of the southwestern region of the United States.

Messrs. Stefánsson and Anderson have continued their work along the shores of the Beaufort Sea, but the report of their work has not been received.

The scientific publications have kept pace with the explorations and investigations. An extra volume of the *Anthropological Papers* has been issued, besides several other papers in Vol. II. The contributors have been Doctors Wissler and Lowie, and Messrs. Skinner, Finch, Bolton, Harrington, Schrabisch and Speck.

Among the accessions, mention should be made of a Hawaiian feather cape, the gift of Mr. George S. Bowdoin, and the Starr Philippine Collection, acquired by purchase, consisting of specimens of weapons, household utensils, fishing and hunting implements, clothing and ceremonial objects.

Under an agreement with the War Department, the Museum prepared the Government's Philippine Exhibit at the Alaska-Yukon-Pacific Exposition. The material used for this purpose was part of the collection acquired at St. Louis. The installation was first made in the Philippine Hall of the Museum and later was reassembled at Seattle.

## PHYSIOLOGY

DEPARTMENT OF PHYSIOLOGY.—The preparation of the osteological specimens for the Museum falls largely on this department.

For cleaning small skulls and skeletons, the digestion method has proved so effective that it has been possible to

preserve material which it would have been necessary to discard if the grosser methods of maceration had been used.

During the year, 2,262 skulls, 75 skeletons, 16 sterna, 93 sets of leg bones and the appendages of four birds have been prepared for exhibition or study purposes. The most important among these are the skeletons of one giraffe, two whales, one blackfish, one rhinoceros and one goose-fish.

In addition to the regular work of the department, a considerable portion of the assistant's time has been occupied in the numbering, cataloguing and assorting of specimens in the Department of Mammalogy.

## WOODS AND FORESTRY

With the approval of the Committee on Woods and Forestry, of which the Honorable Gifford Pinchot is Chairman, the Jesup Collection of North American Woods is being rearranged and installed in a way to bring out more clearly the classification of trees, their relationship and their economic uses.

## THE LIBRARY

DEPARTMENT OF BOOKS AND PUBLICATIONS.—It is gratifying to note the progress made in the growth and development of the library. As stated in an earlier report, the purpose of the Curator is to build up a special library of natural science, and therefore no effort is made to secure books not germane to the work and research of a museum of natural history. More and more is our library being recognized by workers in science as the centre where such publications may be consulted. During the year the following new accessions have been received: bound volumes, 1,359; unbound volumes, 632; numbers, 6,369, and pamphlets, 1,495. The working library at the close of 1909 numbered volumes 40,000 and pamphlets 20,000.

Noteworthy gifts have been received from Miss Grace H. Dodge, Prince Ludwig Salvator, Messrs. Anson W. Hard, William G. DeWitt and J. Pierpont Morgan and Professor Ernst Haeckel. The bibliographic catalogue has been increased by the intercalation of 12,706 cards received from

the *Concilium Bibliographicum*, and a like number has been distributed in the series on deposit.

## PUBLICATIONS

Scientific research has been carried on extensively during the past year, the sum of \$16,777.01 having been expended on the publication of the results.

A full list of the scientific publications of the Museum issued in 1909, as received by the Curator for distribution, follows:

### DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

#### *Bulletin*, Volume XXVI

W. J. Sinclair. "The Washakie, a Volcanic Ash Formation." (Pages 25-27.)

### DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

#### *Bulletin*, Volume XXVI

J. A. Allen. "Mammals from British East Africa. Collected by the Tjäder Expedition of 1906." (Pages 147-175, with 10 text figures.)

J. A. Allen. "The White Bear of Southwestern British Columbia." (Pages 233-238, with 4 text figures.)

J. A. Allen. "Further Notes on Mammals from the Island of Hainan, China." (Pages 239-242.)

J. A. Allen. "Mammals from Shen-si Province, China." (Pages 425-430.)

Roy C. Andrews. "Observations on the Habits of the Finback and Humpback Whales of the Eastern North Pacific." (Pages 213-226, plates xxx-xl.)

Roy C. Andrews. "Further Notes on *Eubalæna glacialis* (Bonn.)." (Pages 273-275, plates xli-l.)

D. G. Elliot. "Descriptions of Apparently a New Species and Subspecies of *Cebus*, with Remarks on the Nomenclature of Linnæus's *Simia apella* and *Simia capucina*." (Pages 227-231.)

John Treadwell Nichols. "A Note on the Dolphins (*Coryphæna equisetis* and *Coryphæna hippurus*)." (Pages 131-133, with 2 text figures.)

L. S. Quackenbush. "Notes on Alaskan Mammoth Expeditions of 1907 and 1908." (Pages 87-130, plates xvii-xxv.)



DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

*Bulletin*, Volume XXVI

- Walter Granger. "Faunal Horizons of the Washakie Formation of Southern Wyoming." (Pages 13-24, plates ii-vi, with 3 text figures.)
- A. Hermann. "Modern Laboratory Methods in Vertebrate Palæontology." (Pages 283-332, plates lii-lvii, with 18 text figures.)
- W. D. Matthew. "Observations upon the Genus *Ancodon*." (Pages 1-8.)
- W. D. Matthew and Harold J. Cook. "A Pliocene Fauna from Western Nebraska." (Pages 361-414, with 27 text figures.)
- H. F. Osborn. "New Carnivorous Mammals from the Fayûm Oligocene, Egypt." (Pages 415-424, with 9 text figures.)

*Memoirs*, Volume IX, Part VI

- W. D. Matthew. "The Carnivora and Insectivora of the Bridger Basin, Middle Eocene." (Pages 289-567, plates xlii-lii, with 118 text figures.)

DEPARTMENT OF ANTHROPOLOGY

*Anthropological Papers*, Volume II

- Robert H. Lowie. "The Northern Shoshone." (Pages 165-306, plate i, with 20 text figures.)
- Clark Wissler. "Notes on New Collections." (Pages 307-364, plates ii-xxiii, with 23 text figures.)

*Anthropological Papers*, Volume III

- Reginald Pelham Bolton. "The Indians of Washington Heights." (Pages 77-112, plates xiii-xvii, with 6 text figures.)
- James K. Finch. "Aboriginal Remains on Manhattan Island." (Pages 65-76.)
- M. R. Harrington. "The Rock-Shelters of Armonk, New York." (Pages 125-140, plates xviii-xx, with 7 text figures.)
- M. R. Harrington. "Ancient Shell Heaps near New York City." (Pages 169-182, with 3 text figures.)
- Max Schrabisch. "Indian Rock-Shelters in Northern New Jersey and Southern New York." (Pages 141-168.)
- Alanson Skinner. "The Lenapé Indians of Staten Island." (Pages 3-64, plates i-xii, with 5 text figures and 1 map.)
- Alanson Skinner. "Archæology of Manhattan Island." (Pages 113-124, with 9 text figures.)
- Alanson Skinner. "Archæology of the New York Coastal Algonkin." (Pages 213-236, with 6 text figures.)
- F. G. Speck. "Notes on the Mohegan and Niantic Indians." (Pages 183-212, plates xxi-xxiv, with 4 text figures.)

*Anthropological Papers*, Volume IV

Robert H. Lowie. "The Assiniboine." (Pages 1-270, plates i-iii, with 17 text figures.)

*Memoirs*, Volume IV, Part VII

James Teit. "The Shuswap." (Pages 443-789, plates xiii-xiv, with 82 text figures.)

## Volume VIII, Part II

Franz Boas. "The Kwakiutl of Vancouver Island." (Pages 301-522, plates xxvii-lil, with 142 text figures.)

## Volume XI, Part III

W. Bogoras. "The Chukchee: Social Organization." (Pages 537-733, plate xxxv, with 1 text figure.)

## DEPARTMENT OF INVERTEBRATE ZOOLOGY

*Bulletin*, Volume XXVI

William Beutenmüller. "The Species of *Holcaspis* and their Galls." (Pages 29-46, plates vii-ix.)

William Beutenmüller. "The Species of *Amphibolips* and their Galls." (Pages 47-66, plates x-xv.)

William Beutenmüller. "The North American Species of *Diastrophus* and their Galls." (Pages 135-146, plates xxvi-xxix.)

William Beutenmüller. "The Species of *Biorhiza*, *Philonix* and Allied Genera, and their Galls." (Pages 243-256, plates xli-xliii.)

William Beutenmüller. "Some North American Cynipidæ and their Galls." (Pages 277-282, plate li.)

T. D. A. Cockerell. "Fossil Diptera from Florissant, Colorado." (Pages 9-12, plate i, with 1 text figure.)

T. D. A. Cockerell. "Fossil Insects from Florissant, Colorado." (Pages 67-76, plate xvi.)

T. D. A. Cockerell. "A Catalogue of the Generic Names Based on American Insects and Arachnids from the Tertiary Rocks, with Indications of the Type Species." (Pages 77-86.)

Roy L. Moodie. "New or Little Known Forms of Carboniferous Amphibia in The American Museum of Natural History." (Pages 347-358, plates lviii-lxv, with 2 text figures.)

James A. G. Rehn. "A Contribution to the Knowledge of the Orthoptera of Sumatra." (Pages 177-212, with 31 text figures.)

Aaron L. Treadwell. "*Haplosyllis cephalata* as an Ectoparasite." (Pages 359-360, with 2 text figures.)

William Morton Wheeler. "Ants of Formosa and the Philippines." (Pages 333-346.)





**TURKEY VULTURE—TURKEY BUZZARD.** Reproduced from studies made by Mr. Frank M. Chapman in May, 1909, on and near Plummer Island, in the Potomac River, ten miles north of Washington. (North American Ornithology Fund)

SPECIAL PUBLICATION

Leonard Worcester Williams. "The Anatomy of the Common Squid."  
(Pages 1-87, plates i-iii, with 16 text figures.)

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

*Bulletin*, Volume XXVI

L. Hussakof. "A New Goblin Shark, *Scapanorhynchus jordani*, from Japan." (Pages 257-262, plates xliv, with 3 text figures.)

L. Hussakof. "The Systematic Relationships of Certain American Arthro-  
dires." (Pages 263-272, plate xlv, with 8 text figures.)

*Memoirs*, Volume IX, Part V

Bashford Dean. "Studies on Fossil Fishes (Sharks, Chimæroids and Arthro-  
dires)." (Pages 209-287, plates xxvi-xli, with 65 text figures.)

### III. MEMBERSHIP

The receipts from membership are an important item in the Museum's income and continuous efforts are made to secure new members. During the past year the results have been especially gratifying.

The new Members number 348, and as the loss through death and resignation is 114, the net gain is 234. It is a pleasure to record that this is the largest number added during a single year in the Museum's history, an indication of the increased interest in the work of the institution.

On December 31, 1909, the total membership was 2,382, divided into classes as follows: Patrons, 103; Fellows, 41; Honorary Fellows, 2; Life Members, 427; Sustaining Members, 17; Annual Members, 1,792.

#### NEW MEMBERS

The following persons were elected Patrons:

MRS. ANDREW CARNEGIE	JAMES DOUGLAS
THOMAS DE WITT CUYLER	GEORGE J. GOULD
W. K. VANDERBILT	

The following persons were elected Fellows:

MRS. HENRY O. HAVEMEYER \*MISS CAROLINE PHELPS STOKES  
MISS OLIVIA E. PHELPS STOKES

BARON LUDOVIC MONCHEUR was elected an Honorary Fellow.

\* Deceased

The following persons were elected Life Members:

DR. JOHN HENDLEY BARNHART	JAMES MCLEAN
MRS. EMMONS BLAINE	EDWARD C. MOORE, JR.
W. B. BOURN	VICTOR MORAWETZ
GEORGE W. BRACKENRIDGE	MISS F. T. MORGAN
CHARLES LYMAN BRINSMADE	HENRY S. MORGAN
S. B. CHAPIN	MISS JANE N. MORGAN
SAMUEL POMEROY COLT	MRS. J. PIERPONT MORGAN, JR.
R. R. CORNELL	J. S. MORGAN, JR.
MRS. DAVIES COXE	DUDLEY OLCOTT, 2d
WILLIAM R. CRAIG	MRS. JOHN E. PARSONS
THOMAS DE WITT CUYLER	FRANK E. PEABODY
WILLIAM T. DAVIS	DR. CHARLES B. PENROSE
LEWIS L. DELAFIELD	GEORGE D. PRATT
WILLIAM G. DE WITT	FREDERICK T. PROCTOR
DR. CARROLL DUNHAM	NORMAN B. REAM
A. F. ESTABROOK	JOHN A. ROEBLING
ALESSANDRO FABBRI	J. SANFORD SALTUS
DANIEL B. FEARING	ARCHDUKE LUDWIG SALVATOR
CHILDS FRICK	EDWARD SHEARSON
GEORGE SCOTT GRAHAM	ALANSON SKINNER
T. A. GRIFFIN	FRANCIS SKINNER
J. HORACE HARDING	MRS. E. A. SLAVEN
MRS. EDWARD S. HARKNESS	DR. HUGH M. SMITH
MRS. W. L. HARKNESS	BYAM K. STEVENS
FREDERIC DELANO HITCH	CHARLES CHAUNCEY STILLMAN
JOHN HUBBARD	FREDERICK STURGES
H. E. HUNTINGTON	MISS P. C. SWORDS
KARL HUTTER	MISS ANNE THOMSON
M. R. JACOBUS	FREDERICK T. VAN BEUREN
O. G. JENNINGS	F. W. VANDERBILT
MRS. OLIVER G. JENNINGS	BAREND VAN GERBIG
MRS. JAMES R. JESUP	ALEXANDER WALKER
MRS. JOHN INNES KANE	JAMES N. WALLACE
*JOHN S. KENNEDY	MRS. SIDNEY WEBSTER
NATHANIEL T. KIDDER	GEORGE PEABODY WETMORE
MRS. SAMUEL LAWRENCE	JOHN J. WILLIAMS
GOODHUE LIVINGSTON	HENRY R. WOLCOTT
WILLIAM G. LOW	ROBERT S. WOODWARD

\* Deceased

The following persons have become Sustaining Members:

H. D. BABCOCK	WALTER C. HUBBARD
MRS. D. C. BLAIR	MRS. CLARENCE H. MACKAY
ERNEST C. BLISS	MORTIMER L. SCHIFF
TEMPLE BOWDOIN	GRANT B. SCHLEY
WILLIAM H. FISCHER	ALBERT TAG
HENRY GOLDMAN	F. D. UNDERWOOD
GEORGE COE GRAVES	DELOS O. WICKHAM
EDWARD S. HARKNESS	MRS. M. ORME WILSON
EGERTON L. WINTHROP	

## 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 1909:

*Trustees*

CORNELIUS C. CUYLER                      D. O. MILLS

*Patrons*

MRS. WILLIAM E. DODGE                      MISS PHEBE ANNA THORNE

*Fellows*

MISS CAROLINE PHELPS STOKES      RUTHERFURD STUYVESANT

*Life Members*

THEODORE K. GIBBS	W. B. ISHAM
JOHN N. A. GRISWOLD	JOHN S. KENNEDY
E. H. HARRIMAN	FORDHAM MORRIS

In appreciation of Mr. Cuyler's interest in the Museum, the Trustees adopted the following Minute at the regular Quarterly Meeting of the Board, November 8, 1909:

It is our very sad duty to record the untimely death of

CORNELIUS C. CUYLER

at Biarritz, France, on July 31, 1909.

Mr. Cuyler was elected a Trustee on February 8, 1904, to succeed the Honorable Abram S. Hewitt. On the decease of Mr. Jesup, he became the especial representative of that family. During the year 1909 he served on the Committee on Buildings and Plans and on Finance.

He began his service for the Museum with his usual optimism, whole heartedness and sound judgment, and was full of pride and hope as to his future connection with its development.

In common with many other institutions which he served with rare fidelity and devotion, we deeply mourn his loss and shall miss him at our councils.



While the death of Mr. Mills did not occur until January 3, 1910, we desire to record in this, the Report of 1909, the resolution which was adopted at the Annual Meeting of the Trustees, February 14, 1910:

This Board records with sorrow its tribute to the late

DARIUS OGDEN MILLS

for twenty-eight years one of its number.

Mr. Mills was elected a Trustee February 13, 1882, and a year later was made a member of the Finance Committee, on which he continued to serve until his death. He was one of the four members of the Committee appointed in 1892 to consider arrangements for educational coöperation, and he also served on the Nominating Committee and was its Chairman for over fifteen years.

The Museum is indebted to Mr. Mills for many generous gifts.

Since the foundation of the Museum forty-odd years ago many prominent and distinguished men have served on the Board of Trustees, but none whose presence was more welcome than that of Mr. Mills. Quiet and gentle in manner, sound in judgment and wise in counsel, modest and simple but full of good sense, just and true in every dealing, he was loved and appreciated by all who knew him. His death on January third leaves his fellow Trustees of this Board with a feeling of profound sense of loss and with the greatest admiration for his fine and lovable qualities of character.

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**IV. FINANCES, MAINTENANCE, ENDOWMENT**

The financial transactions of the Museum have been carried in three separate accounts, namely, the City Maintenance Account, the General Account and the Special Funds Account, all of which are described later. The details of the receipts and disbursements thus classified will be found in the Treasurer's Report, pages 53 to 63 inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York.

**CITY MAINTENANCE ACCOUNT.**—According to the terms of the contract between the City and the Trustees it is the duty of the City to provide for the maintenance of the Museum and the up-keep of the building. During the past year, the City appropriated \$180,000 for this purpose and as usual the receipts and expenditures have been carried in an account separate from the other moneys of the Museum. Generous as this sum may seem, it is quite insufficient to meet all the expenses of maintenance, and items to the amount of \$36,652.01 legitimately chargeable to the City have been paid from the funds of the Trustees. The need of a larger maintenance fund is apparent and it is expected that in the coming year it will be increased to \$200,000, the maximum amount which the law allows.

**GENERAL ACCOUNT.**—The moneys of this account are derived from the interest on invested funds, membership and sales. The total net receipts were \$154,018.51, the principal items of which were as follows:

Interest on bequest of Morris K. Jesup.....	\$49,600.00
Interest on General Endowment.....	50,251.25
Life Members.....	7,100.00
Sustaining and Annual Members.....	17,645.00
Balance of contribution of 1908 by Mrs. Morris K. Jesup, which was applied to the purchase of the Cape York or "Peary" meteorites.....	20,594.60

It was Mr. Jesup's wish, as stated in his will, that the income of his bequest should not be used for maintenance purposes, but for the enlargement of the collections and the prosecution of the scientific work of the institution. In carrying out the terms of the bequest, the Trustees have devoted this money to the support of field parties in Arctic America,

Hudson Bay, British Columbia, Alaska, the Southwest and the Philippines, and to the purchase of important collections and specimens, including the Starr Collection of African Ethnology, the Benedict Collection of Philippine Ethnology, the Palawan Collection of Mammals and Birds, a collection of mammals and birds from Nicaragua, a rare skeleton, with skin, of the dinosaur *Trachodon*, the Modoc and Guffey meteorites, the Mexican Codex, and several objects from the Maori of New Zealand.

TRUSTEES SPECIAL FUNDS ACCOUNT.—Money given to the Museum for specified purposes is carried in this account. Often some patron, or group of patrons, will undertake the support of a particular piece of work or will assist in acquiring an important collection. Such contributions supplement the General Account very materially.

Usually the financial transaction relating to such a matter will be found in the Special Funds Account.

The following shows the total expenditures by the City during the year 1909, as compared with the expenditures by the Trustees from funds derived from all sources, together with the increase of collections by direct gift the cost of which does not pass through the Treasurer's books:

Expenditures by the City.....	\$180,048.69
Expenditures by the Trustees.....	208,031.51

TRUSTEES PERMANENT ENDOWMENT.—The Permanent Endowment is the backbone of the steady development of the Museum and it is for this reason that a larger endowment is imperative. The only additions that have been made to this fund during the year are the bequest of \$10,000 of Mr. William R. Sands, a Life Member of the Museum, and the two patronships of \$1,000 each of Mrs. Andrew Carnegie and Mr. Thomas DeWitt Cuyler. The fund will be further increased by the bequest of \$10,000 of Miss Phebe Anna Thorne, to which her executors intend to add \$15,000, and the bequest of \$100,000 of Mr. D. O. Mills.

Very respectfully yours,

HENRY FAIRFIELD OSBORN

*President*

May 1, 1910



# FINANCIAL STATEMENT

## 1909

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### *PERMANENT ENDOWMENT\**

Morris K. Jesup Fund .....	\$1,135,600 00	
General Fund.....	1,007,750 00	
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	
		<hr/>
		\$2,194,350 00
Uninvested Cash.....		1,295 92
		<hr/>
		<u>\$2,195,645 92</u>

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

THE AMERICAN MUSEUM OF NATURAL HISTORY

CITY MAINTENANCE ACCOUNT

RECEIPTS

1909

Capital Fund, January 1, 1909.....		\$15,000 00
Department of Parks:		
Account of 1908.....		\$49 09
Appropriation for 1909:		
Salaries and Wages .....	\$152,443 00	
Telephone, Rental of .....	382 69	
General Supplies.....	9,645 74	
Materials for Repairs and Re-		
placements by Departmental		
Labor.....	6,694 54	
Repairs and Replacements by		
Contract or Open Order.....	475 26	
Apparatus and Machinery,		
Equipment, Care and Storage		
of same.....	229 80	
Fuel .....	6,652 03	
Contingencies.....	1,427 42	
Bills awaiting reimbursement...	2,049 12	
		179,999 60
<b>Total receipts for the maintenance</b>		
<b>of all departments.....</b>		<b>180,048 69</b>
General Account:		
Transferred to balance deficit.....		226 23
Interest on Credit Balances.....		82 95
Loans.....		3,500 00
		<u>\$198,857 87</u>

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL } Auditing  
SETH LOW Committee

*CITY MAINTENANCE ACCOUNT\**

DISBURSEMENTS

1909

Geology and Invertebrate Palæontology.....	\$5,778 80	
Mineralogy.....	2,534 21	
Mammalogy and Ornithology.....	5,446 85	
Vertebrate Palæontology.....	10,956 74	
Anthropology.....	8,405 43	
Invertebrate Zoölogy.....	8,177 66	
Ichthyology and Herpetology.....	2,013 63	
Physiology.....	1,134 25	
Library.....	9,518 87	
Public Instruction.....	4,003 49	
Preparation and Exhibition.....	8,494 59	
Heating and Lighting.....	21,229 16	
Repairs and Installation.....	20,335 79	
General Supplies and Expenses.....	7,305 45	
Administration.....	64,940 00	
<b>Total disbursements for the maintenance of all departments.....</b>		<b>\$180,274 92</b>
Interest on Credit Balances transferred to General Account.....		82 95
Loans.....		3,500 00
Capital Fund :		
Cash on hand December 31, 1909.....	12,950 88	
Bills awaiting reimbursement.....	2,049 12	
		<u>15,000 00</u>
		<u><u>\$198,857 87</u></u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

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\*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 AMERICAN MUSEUM OF NATURAL HISTORY

GENERAL ACCOUNT

RECEIPTS

1909

Temporary Working Fund Capital.....		\$500 00
Interest on Permanent Endowment.....	\$99,851 25	
Interest on Credit Balances.....	3,771 57	
Fellows.....	1,000 00	
Life Members.....	7,100 00	
Annual Members.....	17,220 00	
Sustaining Members.....	425 00	
Contribution, Percy R. Pyne.....	2,000 00	
Sale of Publications.....	743 55	
Sales and Exchanges.....	1,312 54	
Transferred from Special Funds:		
Gift of Mrs. Morris K. Jesup for the purchase		
of the Peary Meteorites and Ethnological		
Collections .....	20,594 60	
<b>Total receipts for the development of all</b>		
<b>    departments.....</b>		<b>154,018 51</b>
Reimbursements:		
Special Funds Account Transfers:		
African Elephant Group Fund.....	10,000 00	
Horse Exploration Fund.....	1,900 00	
Vertebrate Palæontology Field Funds .....	1,300 00	
Hudson-Fulton Celebration Commission Fund.....	730 02	
Alaskan Basketry Fund.....	250 00	
General Account:		
Unexpended Field Balances, etc. ....	2,597 47	
		16,777 49
Patrons:		
Mrs. Andrew Carnegie.....	1,000 00	
Thomas DeWitt Cuyler.....	1,000 00	
		2,000 00
Loans.....		11,000 00
		<u>\$184,296 00</u>

Examined and Approved { ANSON W. HARD  
GUSTAV E. KISSEL } Auditing  
                                SETH LOW Committee



## GENERAL ACCOUNT\*

### DISBURSEMENTS

1909

Geology and Invertebrate Palæontology.....	\$25,856	17
Mineralogy .....	108	88
Mammalogy.....	22,013	71
Vertebrate Palæontology.....	17,431	44
Anthropology.....	32,107	66
Invertebrate Zoölogy.....	7,647	60
Ichthyology and Herpetology.....	853	80
Physiology.....	1,534	31
Library.....	6,881	56
Publications .....	14,651	36
Public Instruction.....	4,983	20
Preparation and Exhibition .....	8,225	06
Heating and Lighting.....	1,978	05
Repairs and Installation.....	3,279	51
General Supplies and Expenses.....	12,756	14
Sales and Exchanges.....	787	96
Professor Osborn's Research and Publication Fund..	3,403	45
Interest on Overdrafts .....	421	29
<b>Total disbursements for the development of all departments.....</b>	<b>\$164,921</b>	<b>15</b>
<b>Patrons :</b>		
Transferred to Investment Fund, Special Funds Account.....	2,000	00
Loans.....	11,000	00
Transferred to City Maintenance to balance deficit ..	226	23
Cash on hand December 31, 1909.....	5,648	62
Temporary Working Fund Capital.....	500	00
	<u><u>\$184,296</u></u>	<u><u>00</u></u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

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\* 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 AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1909

GEOLOGY:

CHARLES E. SLOCUM FUND..... \$200 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND, BALANCE..... \$355 55

NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:

Miss Carolyn Morgan.....	\$250 00	
Mrs. Harriet L. Schuyler.....	250 00	
Henry Clay Pierce.....	500 00	
Mrs. Morris K. Jesup.....	250 00	
Mrs. John B. Trevor.....	250 00	
F. Aug. Schermerhorn.....	500 00	
John L. Cadwalader.....	250 00	
F. Brandreth.....	50 00	
Mrs. Robert Winthrop.....	250 00	
Mrs. Louise W. Havemeyer.....	250 00	
		2,800 00

AFRICAN ELEPHANT GROUP FUND:

Archer M. Huntington.....	2,000 00	
Arthur Curtiss James.....	1,000 00	
Cleveland H. Dodge.....	1,000 00	
George S. Bowdoin.....	2,000 00	
J. Pierpont Morgan.....	2,500 00	
Gustav E. Kissel.....	500 00	
Percy R. Pyne.....	1,000 00	
		10,000 00

MRS. FRANK K. STURGIS FUND, BALANCE..... 63 78

CONGO EXPEDITION FUND:

Charles Lanier.....	1,000 00	
John B. Trevor.....	2,500 00	
Robert W. Goelet.....	1,000 00	
W. K. Vanderbilt.....	1,000 00	
A. D. Juilliard.....	500 00	
William Rockefeller.....	2,000 00	
J. Pierpont Morgan, Jr.....	1,000 00	
Cleveland H. Dodge.....	1,000 00	
Belgian Government.....	1,329 13	
		11,329 13

CRANDALL OÖLOGICAL FUND:

Mrs. Albert Bierstadt.....	250 00	
Dr. Carroll Dunham.....	10 00	
Samuel Thorne.....	250 00	
J. Chr. C. Hupfel.....	25 00	
William P. Clyde.....	250 00	
Mrs. William H. Bliss.....	50 00	
Charles M. Schott, Jr.....	50 00	
		885 00

	25,433 46
Carried forward.....	\$25,633 46

*SPECIAL FUNDS ACCOUNT*

DISBURSEMENTS

1909

GEOLOGY:

CHARLES E. SLOCUM FUND..... \$200 00

MAMMALOGY AND ORNITHOLOGY:

NORTH AMERICAN ORNITHOLOGY FUND..... \$296 85

NORTH AMERICAN ORNITHOLOGY FUND,  
SERIES 2..... 971 06

AFRICAN ELEPHANT GROUP FUND..... 10,000 00

CONGO EXPEDITION FUND..... 10,629 61

21,897 52

*Carried forward*..... \$22,097 52

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1909

*Brought forward*..... \$25,633 46

MINERALOGY :

MATILDA W. BRUCE FUND :

Balance.....	\$ 9 00	
Interest.....	660 00	
	<u>          </u>	669 00

VERTEBRATE PALÆONTOLOGY :

HORSE EXPLORATION FUND :

Frank K. Sturgis.....	200 00	
Cleveland H. Dodge.....	1,000 00	
George J. Gould.....	1,000 00	
	<u>          </u>	2,200 00

TERTIARY FAUNAL LIFE SCENES FUND :

J. Pierpont Morgan, Jr.....	1,000 00	
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VERTEBRATE PALÆONTOLOGY FIELD FUNDS :

Henry Fairfield Osborn.....	1,500 00	
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TRICERATOPS FUND :

Charles Lanier.....	1,000 00	
	<u>          </u>	5,700 00

ANTHROPOLOGY :

HYDE EXPLORATION FUND :

B. T. B. Hyde.....	50 00	
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WM. DEMUTH COLLECTION :

Balance.....	38 17	
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EAST ASIATIC FUND :

Balance.....	3,180 75	
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BERLIN NORTH AMERICAN FUND :

Balance.....	78 50	
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MURAL DECORATION FUND :

Balance.....	100 00	
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BOARD OF MISSIONS FUND :

Balance.....	830 00	
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ALASKAN BASKETRY FUND :

Mrs. Morris K. Jesup.....	250 00	
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PRIMITIVE PEOPLES OF THE SOUTHWEST FUND :

Archer M. Huntington.....	5,000 00	
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GEORGE S. BOWDOIN FUND.....

	700 00	
	<u>          </u>	10,227 42

*Carried forward*..... \$42,229 88

*SPECIAL FUNDS ACCOUNT*

DISBURSEMENTS

1909

	<i>Brought forward</i> .....		\$22,097 52
MINERALOGY:			
	MATILDA W. BRUCE FUND.....		669 00
VERTEBRATE PALÆONTOLOGY:			
	HORSE EXPLORATION FUND.....	2,200 00	
	TERTIARY FAUNAL LIFE SCENES FUND.....	600 00	
	VERTEBRATE PALÆONTOLOGY FIELD FUNDS.	1,500 00	
	TRICERATOPS FUND.....	<u>1,000 00</u>	5,300 00
ANTHROPOLOGY:			
	HYDE EXPLORATION FUND.....	50 00	
	WM. DEMUTH COLLECTION .....	38 17	
	EAST ASIATIC FUND.....	39 00	
	MURAL DECORATION FUND.....	100 00	
	ALASKAN BASKETRY FUND .....	250 00	
	PRIMITIVE PEOPLES OF THE SOUTHWEST FUND	5,000 00	
	GEORGE S. BOWDOIN FUND .....	<u>700 00</u>	6,177 17
	<i>Carried forward</i> .....		<u>\$34,243.69</u>

THE AMERICAN MUSEUM OF NATURAL HISTORY

SPECIAL FUNDS ACCOUNT

RECEIPTS

1909

<i>Brought forward</i> .....		\$42,229 88
INVERTEBRATE ZOOLOGY:		
EMERSON McMILLIN GIFT .....	\$250 00	
ASHOKAN WATERSHED BIOLOGICAL SURVEY FUND:		
S. D. Coykendall.....	250 00	500 00
ICHTHYOLOGY AND HERPETOLOGY:		
FOSSIL FISH EXPLORATION FUND:		
Balance .....	2,184 44	
Cleveland H. Dodge.....	1,500 00	3,684 44
PUBLIC INSTRUCTION:		
CHILDREN'S MUSEUM FUND:		
Balance .....	183 91	
L. F. Dommerich.....	10 00	193 91
PUBLICATIONS:		
JESUP NORTH PACIFIC EXPEDITION		
PUBLICATIONS:		
Balance.....	729 73	
Mrs. Morris K. Jesup.....	2,000 00	2,729 73
Total receipts for the development of specific departments.....		49,337 96
GIFT OF MRS. MORRIS K. JESUP:		
Balance.....		20,594 60
RESERVE FUND:		
Mrs. Louisine W. Havemeyer.....		250 00
HUDSON-FULTON CELEBRATION COMMISSION		
FUND.....		1,000 00
INVESTMENT FUND:		
Balance.....	1,000,406 61	
Legacy of William R. Sands.....	10,000 00	
General Account:		
Transfers, Patronships .....	2,000 00	
Sale of Bonds .....	241,294 93	
Interest on Credit Balances.....		1,253,701 54
		3,688 62
		\$1,328,572 72

Examined and Approved	{	ANSON W. HARD GUSTAV E. KISSEL SETH LOW	{	Auditing Committee
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*SPECIAL FUNDS ACCOUNT\**

DISBURSEMENTS

1909

<i>Brought forward</i> .....	\$34,243 69
INVERTEBRATE ZOÖLOGY:	
EMERSON McMILLIN GIFT.....	\$250 00
ASHOKAN WATERSHED BIOLOGICAL SURVEY FUND.....	113 50
	363 50
ICHTHYOLOGY AND HERPETOLOGY:	
FOSSIL FISH EXPLORATION FUND.....	1,316 19
PUBLIC INSTRUCTION:	
CHILDREN'S MUSEUM FUND.....	20 94
PUBLICATIONS:	
JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS.....	2,125 65
<b>Total disbursements for the development of specific     departments.....</b>	<b>38,069 97</b>
GIFT OF MRS. MORRIS K. JESUP.....	20,594 60
HUDSON-FULTON CELEBRATION COMMISSION FUND..	1,000 00
INVESTMENT FUND:	
Purchase of Bonds.....	1,252,405 62
INTEREST ON CREDIT BALANCES:	
Earnings to December 31, 1909.....	3,688 62
Cash on hand December 31, 1909.....	12,813 91
	<u>\$1,328,572 72</u>

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1909*

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\*In this account are carried all moneys given to the Museum for specific purposes and not intended for the endowment.

# LIST OF ACCESSIONS, 1909

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## DEPARTMENT OF PUBLIC INSTRUCTION

### BY GIFT

C. E. AKELEY, Chicago, Ill.

4 Photographs of African Elephants in the Field Museum of Natural History, mounted by Mr. C. E. Akeley.

CONGO MUSEUM, Tervueren, Belgium.

9 Photographs of the Congo Exhibit.

PHILIP HINKLE, Cincinnati, Ohio.

1 Photograph of the Serpent Mound.

HUDSON-FULTON COMMITTEE, New York City.

Slides, Shield and Flags.

MRS. MARY E. LOUD, New York City.

1 Mounted Mocking Bird.

G. FREDERICK NORTON, New York City.

7 Transparencies of Whaling Scenes in Hawk Harbor, Labrador.

WELLINGTON MUSEUM, Wellington, New Zealand.

14 Photographs of Maori Busts in course of preparation by the Wellington Museum.

### BY EXCHANGE

CHARLES BESELER & COMPANY, New York City.

52 Photographs of Hudson-Fulton Celebration.

MATTHEW HENSON, of the Peary Arctic Expedition.

110 Photographs and 58 Slides from Negatives made on the Peary Arctic Expedition of 1908.

DONALD B. McMILLAN, Worcester, Mass.

14 Slides from Negatives made on the Peary Arctic Expedition of 1908.

GEORGE A. WARDWELL, of the Peary Arctic Expedition.

101 Photographs and 58 Slides from Negatives made on the Peary Arctic Expedition of 1908.

MESSRS. LOUIS WEISS and HERMANN SCHMIDT, Brooklyn, N. Y.

375 Photographs and 57 Slides from Negatives of the Rio Negro region of South America.

### BY PURCHASE

FREDERICK L. STARR, Chicago, Ill.

52 Photographic Enlargements of Ethnological Types from the Belgian Colony of the Congo.



LOAN

LIEUTENANT GEORGE T. EMMONS, Washington, D. C.

348 Negatives of Alaska and British Columbia from which the Department made prints for its files.

THROUGH MUSEUM EXPEDITIONS

55 Negatives of Cape Fullerton and Repulse Bay regions, made by Capt. George Comer in winters of 1907, 1908 and 1909.

302 Negatives, 28 Slides and 11 Photographs of Alaska and British Columbia, made by Messrs. Harlan I. Smith and W. S. Taylor.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY

GEOLOGY

BY GIFT

MISS M. P. BARTLETT, East Windsor, Conn. ✓

20 Clay Dogs from the Scantic River, East Windsor, Conn.

BUREAU OF SCIENCE, Manila, P. I.

A series of minerals and ores from various provinces in the Philippines.

CALUMET AND HECLA MINES CO., Calumet, Mich. ✕

50 Specimens of ores.

DR. J. MORGAN CLEMENTS, New York City. ✓

28 Specimens of ores and minerals from Colorado, Arizona, Arkansas, and Sonora, Mexico.

DELAWARE, LACKAWANNA & WESTERN COAL CO., Scranton, Pa. ✓

Large fossilized stump from anthracite coal mine under Scranton, Pa.

E. C. EASTON, Gouverneur, N. Y. ✓

1 Piece foliated Talc, 18" x 8".

1 Piece fibrous Talc, 13 inches long.

2 Small fragments of fibrous Talc.

2 Small fragments of Tremolite.

ESTATE OF JAMES D. HAGUE, New York City. ✓

5 Tubes of copper concentrates.

1 Tube of waste slime from the Franklin Mine, Houghton, Mich.

THE MOND NICKEL CO., LTD., Victoria Mines, Ontario. ✕

3 Specimens of wall rock.

2 Specimens of Pyrrhotite and Chalcopyrite.

1 Specimen of converter slag.

1 Specimen of converter matte.

1 Specimen of blast furnace matte.

1 Specimen of Pyrrhotite carrying Nickel.

4 Pounds of blast furnace slag (granulated).

NORTH STAR MINES CO., Grass Valley, Calif. ✓

40-pound section of vein of the North Star Mine and a 2-ounce specimen of vein carrying free gold.

✓ L. D. RICKETTS, Cananea, Sonora, Mex. ✕  
 1 Specimen Sphalerite.

✓ STANDARD PLUNGER ELEVATOR CO., New York City. ✕  
 9 Drill-core specimens.

## BY EXCHANGE

✓ OTTO F. PFORDTE, Rutherford, N. J. ✕  
 8 Specimens of Zincite, Franklinite, etc., from Ogdensburg, N. J.  
 7 Specimens of Willemite, Franklinite, Garnet and Chalcophanite  
 from Franklin and Ogdensburg, N. J.

## BY PURCHASE

✓ 1 Slab of Limestone containing Orthoceratites. —  
 ✓ 1 *Haploscapa* shell, four feet high.  
 ✓ "Modoc" Stone Meteorite, 20 lbs., 3 oz., Scott Co., Kan. —  
 ✓ "Guffey" Iron Meteorite, 682 pounds, Fremont Co., near Guffey, Col.  
 ✓ 1 *Uintacrinus* slab containing 68 bodies. —  
 ✓ "Brenham" Meteorite, second largest fragment in existence of  
 siderolite form, Kiowa Co., Kan. ✕

## THROUGH MUSEUM EXPEDITIONS

✓ 100 Specimens of iron ore, copper and associated rocks from Mar-  
 quette, Ishpeming and Houghton, Mich. Collected by Dr.  
 E. O. Hovey. ✕  
 ✓ 12 Specimens of Hematite, Country Rock and Jaspilite from Oliver  
 Mine, Ishpeming, Mich. Collected by Dr. E. O. Hovey. ✕  
 ✓ 2 Blocks of Limestone 8' x 10' and 4' x 4' respectively, showing glacial  
 grooves and fossils, from Kelley's Island, Ohio. Collected  
 by Dr. E. O. Hovey. Fund supplied by Dr. C. E. Slocum,  
 Defiance, Ohio. ✕

## INVERTEBRATE PALÆONTOLOGY

## BY GIFT

✓ BARNUM BROWN, New York City. ✕  
 30 Laramie Cretaceous fossils from 40 miles east of Glasgow, Mont.

✓ ESTATE OF DR. JAMES W. HALL. ✕  
 10 Sections of corals.

✓ EDWARD H. HOPPENSTEDT, New York City. ✕  
 1 Slab of worm burrows from Wurtsboro, Sullivan Co., N. Y.

✓ E. H. PASCOE, Geological Survey of India. ✕  
 Large series of fossil *Cyrena* shells.

✓ GEORGE A. WARDWELL, of the Peary Arctic Expedition. ✕  
 50 Carboniferous fossils from Lat. 82° 27' north of Greenland.

✓ CHRISTIAN WEBER, Jersey City, N. J.★

- 51 Fossil Plants from the Dakota Group, Fort Harker, Kan.
- 21 Coal Measure Plants from Scranton, Pa.
- 1 Geode, Warsaw limestone, Illinois.
- 8 Sand concretions, Stillwater, N. Y.

BY PURCHASE

- 62 Lamellibranchs, 8 Ammonites, 150 Gastropods, 10 Echinoderms,  
from Mount Lebanon, Syria.

DEPARTMENT OF MAMMALOGY AND  
ORNITHOLOGY

MAMMALS

BY GIFT

DANIEL BEARD, Flushing, N. Y.

- 4 Small mammal skins.

DR. LUCIUS C. BUCKLEY, Bangkok, Siam.

- 4 Small mammals from Siam.

R. R. CARROLL, New York City.

- 1 Young Greenland Seal, 1 mounted head of Newfoundland Caribou.

CAPT. B. D. CLEVELAND, New Bedford, Mass.

- Jaw of Sperm Whale.

R. COLLINS, through Hon. J. H. Rogers, U. S. Consular Agent, Towns-  
ville, Queensland.

- Deformed leg of Cow.

MRS. CORNELL, New York City.

- Caribou head and mounted Seal.

DEPARTMENT OF PARKS, New York City.

- 36 Monkeys, 1 Ocelot, 2 young Leopards, 1 Lion Cub, 1 Gray Fox,  
1 Coatimondi, 1 Grizzly Bear, 1 Brown Bear, 1 Cinnamon Bear,  
2 Fallow Deer, 2 Axis Deer, 1 Brazilian Sheep, 1 Llama, 1  
Camel, 2 Aoudads, 4 Nilghaus, 1 Porcupine, 5 Opossums.  
Total, 64 specimens received in the flesh from the Central Park  
Menagerie.

J. DIXON, Stanford University, Calif.

- Topotypes of *Reithrodontomys raviventris* and *R. halicoetis*.

G. DWIGHT FRANKLIN, New York City.

- 1 Coney, 2 Rabbits.

L. GIBSON, Schenectady, N. Y.

- 1 Eskimo Dog.

WALTER GRANGER, New York City.

- 3 Skulls of Pronghorn.

ARTHUR HEINRICH, Baldwin, N. Y.

2 Rabbits.

Mrs. R. HURD, Gloucester, Mass.

1 Iceland Fox, mounted.

GNEOMAR VON KROCKOW, New York City.

1 Pair of Chamois horns, 4 pairs of Roebuck horns, 1 pair of Ariel Antelope horns, 1 skull of European Hare with malformed incisors.

E. HUBERT LITCHFIELD, B. DOMINICK, Jr., and H. SAMPSON, Jr., New York City.

3 Grant Gazelles, 1 Thompson Gazelle, 1 Coke Hartebeest, 1 Neumann Hartebeest, 1 foetal Rhinoceros, skull and cervical vertebrae of Giraffe, 1 Mongoose, 1 Hyæna, from British East Africa.

CHARLES S. MEAD, Suffolk, Conn.

3 Shrews.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Pair shed antlers.

Photographs of Wapiti.

G. FREDERICK NORTON, New York City.

Whale transparencies.

PEARY ARCTIC CLUB, New York City.

1 Polar Bear skull, 10 Walrus skulls, 10 Narwhal tusks, 50 Musk-oxen (skins with skulls and leg bones), 65 Caribou (skins with skulls and leg bones), about 100 Lemmings (in spirits), 1 Ermine, 5 Walrus foetuses, 1 Seal foetus, 1 Narwhal foetus, 2 Caribou foetuses,—in all, about 250 specimens.

JOHN B. TREVOR, New York City.

Mounted head of Lapland Reindeer.

W. T. VAN RENSELAER, Salt Point, N. Y.

2 Wild European Hares, 1 black Woodchuck, from Dutchess County, N. Y.

COL. A. E. WARD, Kashmir, N. India.

20 Small mammals from Kashmir.

FRANK WOOD, New Bedford, Mass.

Complete Whaling Outfit.

#### BY PURCHASE

2 Specimens of *Ursus kermodei*; 19 specimens of Wolves, Lynxes and Bears from Minnesota; skeletons of Blackfish and Dolphin from New Zealand; 33 small mammals from Palawan Island P. I.; 38 small mammals from the Island of Trinidad, B. W. I.; 177 specimens from Nicaragua; 28 specimens from Hudson Bay.

#### THROUGH MUSEUM EXPEDITION

1 Harbor Seal, 3 skeletons and 6 skulls of the White Whale, 1 Raccoon.

BIRDS

BY GIFT

MRS. H. M. BILLINGS, New York City.

Birds' nests.

MRS. J. B. BLOOMINGDALE, New York City.

1 Bittern (mounted).

EDGAR BURKE, Morristown, N. J.

1 Least Sandpiper.

ROBERT E. CLARKE, Yonkers, N. Y.

1 Reeve's Pheasant.

R. B. CONSTANTINE, South Orange, N. J.

4 Red Jungle Fowls.

HOMER DAVENPORT, Morris Plains, N. J.

1 Crowned Crane.

DEPARTMENT OF PARKS, New York City.

24 Swans, 1 Duck, 1 Peacock, 5 Pheasants, 1 Crane, 5 Eagles, 4  
Hawks, 2 Owls, 10 Parrots, 1 Crow.—Total, 54 specimens  
received in the flesh from the Central Park Menagerie.

DR. JONATHAN DWIGHT, Jr., New York City.

12 Bird skins.

DR. P. JAMES FAGAN, New York City.

1 Canadian Warbler.

DR. A. K. FISHER, Washington, D. C.

2 Evening Grosbeaks (skins).

G. CLYDE FISHER, DeFuniak Springs, Fla.

8 Skins from Florida.

G. DWIGHT FRANKLIN, New York City.

1 Barn Swallow.

O. S. GRINNELL, New York City.

1 Canada Goose.

HENRY HALE, Ridgewood, N. J.

Cast of Great Auk's egg.

FRANCIS HARPER, College Point, N. Y.

1 Laughing Gull, 1 Yellow-billed Cuckoo.

ARTHUR HEINRICH, Baldwin, N. Y.

1 Red-breasted Merganser.

ADAM HERMANN, New York City.

8 Skins from Patagonia.

DR. JOHN HORNUNG, Ventura, Calif.

25 Beautifully prepared skulls.

DR. JOHN HOWLAND, New York City.

40 Mounted birds, mostly of large size.

D. M. HYMAN, New York City.

3 Mounted Ring-necked Pheasants.

DR. D. T. KENNEDY, Southampton, N. Y.

1 Hooded Merganser.

- EDWIN C. KENT, New York City.  
1 Blue Goose.
- EDWARD LANE, New York City.  
1 Long-eared Owl.
- ROBERT B. LAWRENCE, New York City.  
1 Northern Phalarope.
- G. E. LODGE, London, England.  
8 Skins of Red Grouse and Partridge.
- MISS NINA MARSHALL, New York City.  
1 Weaver Bird.
- W. DEW. MILLER, Plainfield, N. J.  
2 Bufflehead Ducks, 1 Short-eared Owl.  
2 Small birds.
- HON. MASON MITCHELL, Apia, Samoa.  
2 Tooth-billed Pigeons, 3 Fruit Pigeons and 1 Gallinule.
- NEW YORK FOREST, FISH AND GAME COMMISSION, Albany, N. Y.  
2 Ptarmigans, 1 Black Grouse, 2 Golden Plovers, 2 Sandpipers, 2  
Woodcocks.—Total, 9 specimens received in the flesh.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.  
1 Ostrich, 1 Rhea, 1 Ocellated Turkey.
- O'NEILL-ADAMS COMPANY, New York City.  
1 Mounted Snowy Owl.
- ADAM A. PELHAM, Palenville, N. Y.  
Nest and two eggs of Ovenbird.
- HARRY C. RAVEN, Bay Shore, N. Y.  
2 Ducks and 1 Bittern.
- MRS. AGNES ROESLER, New York City.  
1 Red-shouldered Hawk.
- DR. L. C. SANFORD, New Haven, Conn.  
4 Ducks, 1 Red-throated Loon, 11 skins including a Yellow Rail.
- MISS MARY J. SMITH, New York City.  
6 Parrot eggs.
- J. O. SNYDER, Palo Alto, Calif.  
7 Skins of small birds.
- FREDERIC W. STACK, New Rochelle, N. Y.  
57 Skins of North American birds.
- ARTHUR SUSSMAN, Long Branch, N. J.  
1 Swan, shot at Manahawkin Bay, N. J.
- HON. JOHN E. THAYER, Lancaster, Mass.  
A series of eggs of Heermann's Gull.
- DR. E. LEROY THOMPSON, Nantucket, Mass.  
Wings, feet and head of a Blue Goose.
- E. WALDSTEIN, New York City.  
1 Parrot.
- REV. M. P. WELCHER, Norwalk, Conn.  
10 Nests and several eggs.

BY EXCHANGE

167 Specimens from Japan ; 16 small birds from Lower California ;  
10 small birds from Costa Rica ; 4 large birds from Nebraska ;  
1 Great Horned Owl from New York.

BY PURCHASE

595 Specimens from Nicaragua ; 103 (mostly large) specimens from  
Palawan, P. I. ; <sup>30</sup>31 Penguins ; 2 Jabirus ; 7 specimens from  
Siam ; 2 Golden Eagles ; 13 eggs of Albatross and Fulmar.

THROUGH LOCAL COLLECTING

358 Specimens, mostly from Long Island, N. Y.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

BY GIFT

N. H. BROWN, Lander, Wyo.

Skull of *Amyrnodon* and skull of a *Titanotherium* found by the donor in  
Tertiary formations near Lander.

AMORY COFFIN, S. Orange, N. J.

2 Teeth of *Mastodon* from Eddystone Island, S. C.

KARL HAGENBECK, Stellingen-bei-Hamburg, Germany.

Statuette models of *Bos primigenius*, *Iguanodon*, *Diplodocus*, *Glyptodon*,  
*Parciasaurus* and *Triceratops*.

CHARLES LANIER, New York City.

Skull of the Horned Dinosaur *Triceratops*, with the horns excep-  
tionally perfect and of record size, found by George Sternberg  
in the Cretaceous of Wyoming.

BY EXCHANGE

BRITISH MUSEUM, London, England.

Cast of type skull of *Hyracotherium*.

PALÆONTOLOGICAL MUSEUM, Munich, Germany.

Complete skeleton of *Pterodactylus* from the lithographic limestones  
of Bavaria.

DARMSTADT MUSEUM, Germany.

Cast of skeleton of *Halitherium* from the Oligocene of Germany.

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.

Skull and jaws of the Sabre-Tooth Tiger from the asphalt deposits  
near Los Angeles, Calif.

BY PURCHASE

INCOME FROM MORRIS K. JESUP BEQUEST.

Mummied skeleton of the Duck-Billed Dinosaur *Trachodon* from the  
Upper Cretaceous of Wyoming.

Skull, with complete horns, of the Long-Horned Bison, and lower  
jaws of the Imperial Mammoth, from the Pleistocene of Kansas.

Skull of the Marine Reptiles *Clidastes* and *Toxochelys* from the Marine Cretaceous of Kansas.

Skull of the extinct Beaver *Steneofiber* from the Miocene of Nebraska. Skull and associated bones of *Moropus* from the Miocene of Nebraska.

Skull of *Mastodon* from the Pleistocene of Indiana.

2 Partial skeletons of *Pteranodon* from the Cretaceous of Kansas.

2 Carapaces of gigantic extinct Tortoises from the Miocene of Kansas.

Model of skull and jaws of *Prozeuglodon* of the Fayûm, Egypt.

Model of skull and jaws of *Megaladapis*, the giant extinct Lemur of Madagascar.

#### THROUGH MUSEUM EXPEDITIONS

#### CRETACEOUS OF MONTANA.

Skeleton of a Horned Dinosaur, probably new; skeleton of a small undescribed Dinosaur and of another specimen probably of the same genus, also skeleton of *Champsosaurus*, all from the Hell Creek Beds of central Montana. Collected by Messrs. Brown and Kaison.

#### TERTIARY OF WYOMING.

Collection of fossil mammals from the Wind River formation, containing several new species and genera and better specimens of most of the known Wind River mammals; also a number of specimens of fossil mammals from Upper Eocene and Lower Oligocene formations near Lander, Wyo. Collected by Messrs. Granger, Olsen and Stein.

#### TERTIARY OF EGYPT.

Collection of fossil mammals from the Fluvio-marine formation of the Fayûm district, obtained by Mr. R. Markgraf.

### DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

By GIFT

#### CLEVELAND H. DODGE FUND.

7 Fossil fishes from various localities selected from the collection of Dr. F. Krantz, Bonn, Germany.

1 *Semionotus capensis*, South Africa.

10 Teeth of *Ptychodus mortoni*, Kansas.

3 Fossil fishes from the Green River shales, Wyoming, as follows:  
1 *Lepidosteus simplex* (the best specimen recorded of this rare form), 1 *Dasyatis radians*, 1 *Priscacara pealei*.

70 Species of fishes collected at Naples by Dr. Louis Hussakof.

15 Species of fishes collected in Denmark by Mr. John T. Nichols.

18 Species of fishes collected on Long Island by Mr. John T. Nichols.

4 Mounted fishes.

4 Fishes for the study collection.



DEPARTMENT OF ANTHROPOLOGY.

12 Species of fishes, collected near Fort Wrangle, Alaska, by Mr. Harlan I. Smith.

OTTO FALKENBACH, New York City.

1 *Fistularia* and 1 *Chilomycterus*.

DR. LOUIS HUSSAKOF, New York City.

5 *Coccosteus minor*, 1 *Palæospondylus gunni*.

Collection of approximately 200 individuals representing about 20 species, collected at Beaufort, N. C.

MRS. AMY KNIPE, Charleston, S. C.

1 Tooth of *Carcharodon megalodon*.

DR. A. KRAUSSE, Asuni, Sardinia, Italy.

2 Fishes collected in Sardinia.

DR. THEODORE LENS, Military Hospital, Curaçao.

6 Fishes from Curaçao.

PROF. C. F. W. McCLURE, Princeton, N. J.

4 Great Sea Lampreys.

NEW YORK AQUARIUM, New York City.

1 Sand Shark (local).

Collection of fishes (about 100 specimens) mainly from Bermuda.

PEARY EXPEDITION OF 1908.

6 Trout.

FRANK SEELEY, S.S. "Yumuri."

18 Species of fishes from the Gulf of Mexico.

F. S. SWEET, New York City.

1 *Mallotus villosus*.

BY EXCHANGE

AMHERST COLLEGE, Department of Biology.

1 *Ichthyodectes hammatas*.

HANCOCK MUSEUM, Newcastle-on-Tyne, England.

25 Specimens from the coal measures of Northumberland, as follows:

2 *Acanthodopsis wardi*, 7 *Megalichthys hibberti*, 2 *Strepsodus sauroides*, 10 *Ctenodus* and 4 *Gyracanthus tuberculatus*. (These are from the well-known collection of Messrs. Hancock and Atthey.)

NATAL GOVERNMENT MUSEUM, Pietermaritzburg, Natal.

1 South African Sawfish (having six gills), *Pliotrema warreni*.

NEW SOUTH WALES FISHERIES DEPARTMENT, Sydney, Australia.

Several *Hyperlophus spratellides*.

ON DEPOSIT

COLUMBIA UNIVERSITY, New York City, through Department of Zoölogy.

250 Fishes, representing 60 species, from various localities.

## REPTILES AND BATRACHIANS

## BY GIFT

## CLEVELAND H. DODGE FUND.

Collection of Amphibians (50 specimens) for use in preparing habitat groups.

1 Galapagos Turtle.

## LEE F. BARNUM, Brooklyn, N. Y.

Various Reptiles and Batrachians.

## CENTRAL PARK MENAGERIE, New York City.

1 Rock Python.

## C. F. CLARKE, Havana, Cuba.

1 Lizard.

## COLUMBIA UNIVERSITY, New York City.

10 Amphibians, mainly African.

## HARRY A. DAVIS, S.S. "Kilpatrick."

1 Banded Sea-snake (*Platurus laticaudatus*) from Manila, P. I.

## WILLIAM T. DAVIS, Staten Island, N. Y.

2 Gray Tree-frogs (*Hyla versicolor*).

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

1 Skin and skull of Crocodile.

6 Snakes from Formosa.

Several Lizard skins from the Philippine Islands.

## DR. T. B. ENDERS, New York City.

2 Snakes and several reptile eggs.

## H. C. FULMER, Stevenson, Ala.

1 Lot of Batrachians.

## A. HERMANN, New York City.

30 Lizards from various localities.

## DR. A. KRAUSSE, Asuni, Sardinia, Italy.

10 Reptiles from Sardinia.

5 Amphibians from Sardinia.

## GNEOMAR VON KROCKOW, Brooklyn, N. Y.

1 Lot of Batrachians and Reptiles.

## DR. THEODORE LENS, Military Hospital, Curaçao.

1 Lot of Lizards.

## NEW YORK AQUARIUM, New York City.

3 Turtles and 3 Crocodiles.

## LORING OLMSTED, City of Mexico.

About 20 Snakes from Mexico.

## DR. ALEXANDER PETRUNKEVITCH, Montclair, N. J.

1 Specimen *Cacilian* from Mexico.

## LOUIS RUHE, New York City.

4 European Tree-frogs (*Hyla arborea*).

## MRS. N. A. SHAW, New York City.

1 Snake.

ALANSON SKINNER, Staten Island, N. Y.

1 Turtle.

DR. ANTHONY WOODWARD, New York City.

1 Snake (*Heterodon platyrhinos*).

CHARLES WUNDER, Dundee Lake, N. J.

1 Snake (*Heterodon platyrhinos*).

BY PURCHASE

1 Bullfrog (*Rana catesbiana*) from Canada.

THROUGH MUSEUM EXPEDITIONS

1 Lot of Reptiles and Batrachians from Ashokan Watershed, N. Y.

Collected by Prof. Aaron L. Treadwell and Mr. Gneomar von Krockow.

1 Lot of Reptiles and Amphibians from Mexico. Collected by Dr. Alexander Petrunkevitch.

DEPARTMENT OF ANTHROPOLOGY

BY GIFT

H. E. BARD, New York City.

Ethnological collection from the Philippine Islands.

MRS. J. B. BLOOMINGDALE, New York City.

Pottery vessel from prehistoric grave at Chepu, Peru; Lapp needle-case from Norway.

GEORGE S. BOWDOIN, New York City.

Basket from South Pacific Islands; feather cape from the Hawaiian Islands.

SAMUEL MORRIS CONANT, Pawtucket, R. I.

Stone arrow point from Thonotosassa, Fla.

KENNETH LEE COONTZ, New York City.

Large grooved stone maul found at Yankton, S. D.

J. L. DAVIDSON, Lockport, N. Y.

Skull and human bones from Indian burial place near Lockport, N. Y.

LIEUTENANT G. T. EMMONS, Princeton, N. J.

Rattle from the Chilcotin of British Columbia.

FLINT & COMPANY, New York City.

Saddle and bridle from Morocco.

MRS. EDNA HILLYER FORD, Wautun, Wis.

11 Photographs of Indians of different tribes.

ROBERT F. GILDER, Omaha, Neb.

Parts of three skulls and two pieces of long bones (human) from the George West Farm Mound near Omaha, Nebraska; 4 pieces of skull and 2 scrapers.

GEORGE BIRD GRINNELL, New York City.

12 Indian saddles; 3 back rests; a stone anvil.

- BENOIT GUERRY, North Conway, N. H.  
Stone ax, North Conway, N. H.
- WILLIAM HAGUE, New York City.  
Contents of an ancient Indian cache in Laurium, Mich.
- EDWARD HAGAMAN HALL, New York City.  
Skeleton of dog (nearly complete) and 6 potsherds from Manhattan Island.
- FRITZ V. HOLM, New York City.  
Set of rubbings of inscription on the Nestorian Tablet in Sian-fu, Shen-si, China.
- DR. U. S. KAHN, New York City.  
Head-dress from Abyssinia.
- CARLOS LARRABURC, Lima, Peru.  
Head-dress of Indians on Rio Ucayali, Peru.
- DR. CARL LUMHOLTZ, New York City.  
Girdle woven by the Mayo Indians, State of Sinaloa, Mexico.
- HON. MASON MITCHELL, Apia, Samoa.  
2 Tibetan scrolls; collection of ancient and modern objects from Tibet and China.
- WILLIAM C. MUSCHENHEIM, New York City.  
Contents of an ancient Indian shell pit, Spuyten Duyvil, New York City.
- DR. FRANCIS C. NICHOLAS, New York City.  
3 Gold nose ornaments (prehistoric) from Yaruman, Colombia.
- GEORGE OLSEN, New York City.  
Fragments of a steatite pot, Wyoming.
- MRS. DAVID PEACOCK, New York City.  
Bow and arrow from South America; carved stick (totem) from Sitka, Alaska.
- PEARY ARCTIC CLUB, New York City.  
Dog sled, snow shoes, cooking apparatus, etc.
- CHARLES PERCY, S.S. "Roosevelt."  
Whalebone dish, Eskimo.
- CHARLES W. PINCKNEY, New York City.  
Catlinite pipe from Yankton, S. D.
- M. F. SAVAGE, New York City.  
6 Steel engravings showing old time customs in Fiji Islands.
- ALANSON SKINNER, Staten Island, N. Y.  
Ojibway cup-and-ball game made of moose bones, from Missanabie, Ontario, Canada; Seneca-Iroquois costume from Cattaraugus Reservation, New York; collections of archæological specimens from Runyon, Middlesex Co., N. J.; 2 silver bracelets of Ojibway Indians; stone celt from South River, N. J.; archæological collection from Staten Island.
- MRS. F. W. SKINNER, Staten Island, N. Y.  
Basket of birch bark, Ojibway; flower cut from birch bark, Ojibway.

MRS. E. SUTTON SMITH.

2 Stone axes from Maine; grape shot dug from Bunker Hill; circular stone dug from Copp's Hill.

HARLAN I. SMITH, New York City.

Pair Chinese slippers.

JOHN I. SOLOMON, New York City.

Ornament carved in ivory. Supposed to be an old piece of Singalese carving.

THE LATE HARRIE HAYDON STARKEY, Brooklyn, N. Y.

Ethnological collection from Alaska.

NORTON B. TILLOTSON, New York City.

Buffalo-horn spoon and wooden bowl from grave near the Black Hills.

DR. W. W. TOMPKINS, Charleston, W. Va.

Grooved stone ax from vicinity of Charleston, W. Va.

CHRISTIAN WEBER, Jersey City, N. J.

7 Pottery vessels from Arkansas.

W. A. WELCH, San Antonio, Amazonas, Brazil.

Jointed arrow for fish from Indians of Rio Beni; paddle from Indians of Rio Beni; paddle from Indians of Madre de Dios; pair rubber shoes and rubber ball from Indians of Upper Madeira, Brazil; 2 gourd baskets from Sarterem on Amazon, Province of Para.

MESSRS. G. L. and F. N. WILSON, Minneapolis, Minn.

Potsherds from Mandan village site, North Dakota.

MRS. CLARK WISSLER, New York City.

Stone celt from Wayne Co., Indiana; gold pendant—human figure with nose ornament and 23 green stone ornaments and beads, from Llanos of Casanari, Colombia.

S. H. WOLF, New York City.

3 Pieces of pottery from Ruins of Jalapa, Mexico.

FRANK WOOD, New Bedford, Mass.

Shell breast plate from New Mecklenburg.

BY EXCHANGE

BERLIN MUSEUM, Berlin, Germany.

21 Casts from stone yokes and palmas, Mexico.

CHICAGO ACADEMY OF SCIENCE, Chicago, Ill.

19 Ethnological specimens from Africa, Abyssinia, Alaska and the United States.

DR. PAUL EHRENREICH, Berlin, Germany.

12 Photographs of Indians of the Rio Purus, Amazonas, Brazil.

L. A. FUERTES, Ithaca, N. Y.

Seal float from the vicinity of Fort Simpson.

FRANK S. GORDON, Blairstown, N. J.

32 Copper bells (prehistoric) from Jalisco, Mexico.

BYRON E. HOOVER, New York City.

Basket from the Yahgan Indians, Tierra del Fuego.

W. K. MOOREHEAD, Andover, Mass.

Archæological material from Jacobs Cavern and village site, McDonald Co., Mo.

NEW YORK STATE MUSEUM, Albany, N. Y.

Archæological material from an Erie Indian village site at Ripley, N. Y.

Collection of Iroquois archæology from New York and New Jersey.

Mrs. A. L. ROESLER, New York City.

Baby carrier with quill and bead work from the Dakota, Pine Ridge, S. D.

ROYAL ETHNOGRAPHICAL MUSEUM, Stockholm, Sweden.

Collection of baskets from Africa.

E. THOMPSON SETON, Cos Cob, Conn.

War shirt from the Ogallala Sioux and moose-hide shirt made by Cree Indians.

STÄDTISCHES VÖLKERMUSEUM, Frankfurt a/M., Germany.

Ethnographical material from German Colonies in Africa.

GEORGE C. STONE, New York City.

Chinese gun.

#### THROUGH MUSEUM EXPEDITIONS

Ethnological collection from the Jicarilla Apache of northern New Mexico. Collected by Dr. P. E. Goddard. Provided for by Mr. Archer M. Huntington.

Ethnological and archæological collection from the Penobscot Indians, Old Town, Me. Collected by Mr. William C. Orchard.

Ethnological collection from the Cree and Ojibway of the region of Hudson and James Bays and from the Winnebago of Black River Falls, Wis. Collected by Mr. Alanson Skinner. Provided for by the Morris K. Jesup Fund.

Archæological and ethnological specimens from British Columbia and Alaska. Collected by Mr. Harlan I. Smith. Provided for by the Morris K. Jesup Fund.

Ethnological collection from the Philippine Islands. Collected by Dr. Hugh M. Smith.

Ethnological collection from the Mackenzie River region. Collected by Mr. V. Stefánsson.

Ethnological collection from the Teton Sioux of the Pine Ridge Reservation, South Dakota, and phonograph records from the same. Collected by Dr. J. R. Walker. Provided for by the Morris K. Jesup Fund.

Ethnological collection from the Hidatsa and Mandan of North Dakota. Collected by Rev. Gilbert L. Wilson.

DEPARTMENT OF MINERALOGY

BY GIFT

THE MATILDA W. BRUCE FUND.

55 Specimens of minerals, including Antimony, Apatite, Argyrodite, Arsenolite, Benitoite, Beryl, Bakerite, Bismuth, Bismutite, Brochantite, Cassiterite, Cerargyrite, Childrenite, Corundum, Cuprite, Diopside, Dioptase, Graftonite, Hematite, Hexagonite, Iodyrite, Kröhnkite, Malachite, Mullerine, Neptunite, Opal, Orthoclase, Patronite, Phenacite, Phlogopite, Pyrite, Siderite, Silver, Semsseyite, Spodumene, Stibiotantalite, Talc, Titanolite, Topaz, Tremolite, Valleriite, Wollastonite, Wurtzite.

W. BOLES BALDWIN, New York City.

11 Specimens of Opal from Mexico.

CLARENCE S. BEMENT, Philadelphia, Pa.

A beautiful group of radiating Tourmaline from Haddam Neck, Conn.

H. BOOTH, Poughkeepsie, N. Y.

1 Crystal of Chondrodite, Tilly Foster, Putnam County, N. Y.

W. H. BRADLEY, C. E., New York City.

One round section (core) taken at 268-foot level below curb, of gneissoid granite, Astoria, L. I.

One round section (core) taken at 2,000-foot level below curb, of gneissoid granite, Astoria, L. I.

W. A. BUCKNER, Arkansas.

3 Specimens of Peridotite from the Ozark Diamond Mining Company's land, on the edge of the diamond-bearing Arkansas Diamond Mining Company's land.

1 Specimen of Obsidian, Magnet Cove, Ark.

1 Specimen of Lodestone from Magnet Cove, Ark.

H. CLEARY, C. E., New York City.

Peat specimen from "peat-bog," Centre Street, New York City.

ALBERT S. COFFIN, C. E., New York City.

Section of drill-core in garnetiferous gneiss, 150 feet below curb, at Eighty-seventh Street and Broadway.

JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

1 Specimen pure lump Graphite from Ceylon.

1 Specimen flake Graphite with quartz, Ticonderoga, N. Y.

1 Specimen scale gneissoid Graphite, Ticonderoga, N. Y.

1 Bottle of lump Graphite, Ceylon, India.

WALTER GRANGER, New York City.

1 Specimen of Gypsum from Wind River Formation, Lost Cabin, Wyo.

ALFRED C. HAWKINS, Sewaren, N. J.

1 Specimen of cubical Pyrite in Triassic shales, Piscataway, N. J.

J. F. HEMENWAY, New York City. ✓

Octahedral Sphalerite, "Lucky Inn" Mine, Slovan District, near Raslo, B.C.

CHARLES HOFFSTETTER, Jersey City, N. J. ✓

1 Specimen of Septaria; limonite sheathing on crust, Elk Prairie Jefferson Co., Ill.

ROBERT A. A. JOHNSTON, for Canadian Geological Survey. ✓

1 Specimen of Baddeckite from Baddeck, N. S.

A. L. LACK, New York City. ✓

Tourmaline from 181st Street and Lafayette Avenue, New York City.

A. H. PETEREIT, New York City. ✓

1 Specimen of Calcio-Volborthite from Telluride, Col.

DAVID PROSKEY, Nevada. ✓

600 Minute crystals of Gold from ore at Rawhide, Nev.

T. SAUNDERS, New York City. ✓

1 Specimen of Coccoilite (pyroxene), Weaverstown, Warren Co. N. Y.

R. B. SPENCE, Elmira, N. Y. ✓

3 Specimens of crystallized Silver in reticulated octahedrons from Nipissing, Ontario, Canada.

MRS. JAMES SULLIVAN, New York City. ✓

Specimens of various minerals, including Aragonite, Calcite, Natrolite.

OLIVER TIMS, New York City. ✓

1 Specimen of Tourmaline-bearing Rock, Maine.

1 Specimen of Slate, Greenwood Lake, N. J.

BERNARD ZIGRELIUS, New York City. ✓

30 Fragments of Agate, 7 specimens of Copper, 2 specimens of Chlorastrolite, 2 specimens of Thomsonite, from Lake Superior Michigan.

Limestone holding Galena from Isle Royale, Lake Superior.

#### BY EXCHANGE

ROBERT B. GAGE, New Jersey State Survey. ✓

1 Specimen of Emplectite from Cobalt, Ontario, Canada. -

3 Specimens of Hydrocuprite from Somerville, N. J. ✓

ALFRED C. HAWKINS, Sewaren, N. J. ✓

1 Specimen of Chrysoberyl from 122d Street and Morningside Park New York City.

H. S. PECK, Albany, N. Y. ✓

1 Specimen of Barite (with Psilomelane) from McCormick, S. C.

1 Specimen of Psilomelane from McCormick, S. C.

1 Specimen of Psilomelane (replacing Asbestos) from McCormick, S. C.

1 Specimen of Siderite (with Barite) from Frostburg, Md.



OTTO F. PFORDTE, Rutherford, N. J. ✓

- 1 Specimen of Breithauptite from Cobalt, Ontario, Canada. —
- 1 Specimen of Chalcocite from Franklin Furnace, N. J.
- 1 Specimen of Datolite from W. Paterson, N. J. —
- 1 Specimen of Fluorite from Franklin Furnace, N. J. —
- 1 Specimen of Heulandite from W. Paterson, N. J. —
- 1 Specimen of Galena from Franklin Furnace, N. J. —
- 1 Specimen of Galena from Stirling Hill, N. J. —
- 1 Specimen of Erythrite from Cobalt, Ontario, Canada. —
- 1 Specimen of Franklinite from Franklin Furnace, N. J. —
- 1 Specimen of Niccolite from Cobalt, Ontario, Canada. —
- 1 Specimen of Pectolite from W. Paterson, N. J. —
- 1 Specimen of Phlogopite from Franklin Furnace, N. J. —
- 1 Specimen of Smaltite from Cobalt, Ontario, Canada. —
- 1 Specimen of Stilbite from W. Paterson, N. J. —
- 2 Specimens of Black Willemite from Franklin Furnace, N. J. —

MILTON G. SMITH, New York City. ✓

- 4 Specimens of Orthoclase (Sanidine) from Tonapah, Nev.
- 1 Specimen of Trona (crystallized) from Owens Lake, Myo Co., Calif.

BY PURCHASE

- ✓ 1 Specimen of Natrolite on Datolite from Bergen Hill, N. J. —

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

INVERTEBRATES

BY GIFT

Mrs. B. ANDERSON-STIGEN, New York City.

- 3 Pieces of Amber (containing insects).

G. W. J. ANGELL, New York City.

Various insects from the vicinity of New York and Key West, Fla.

H. G. BARBER, Roselle Park, N. J.

Various Hemiptera.

WILLIAM C. BARBOUR, Succasunna, N. J.

- 1 Slide of Statoblasts of *Pectinatella magnifica*.

WILLIAM C. BEEBE, New York City.

- 1 Spider (*Admetus pumilio*) and 1 Scorpion (*Centrurus margaritatus*).

REV. T. S. BENDRAT, Boonville, Oneida Co., N. Y.

- 2 Spiders (*Heteropoda vinatoria* L.).

WILLIAM BEUTENMÜLLER, New York City.

- 1 Specimen of *Cicindela patruela*.

E. A. BISCHOFF, Newark, N. J.

Various Carabidæ.

Mrs. J. B. BLOOMINGDALE, New York City.

- 1 Lot of Sponges, Corals, Sea-fans, Echinoderms, Insects and Molluscs.

- MRS. M. H. BRISTOL, New York City.  
1 Wasps' Nest from South America.
- MRS. PETER J. BRADY, Brooklyn, N. Y.  
1 Trap-door Spider Nest.
- MRS. N. L. BRITTON, New York City.  
1 Vial of Annelids from Jamaica and 1 Sponge from the Bahamas.
- EDGAR B. BRONSON, New York City.  
2 Goliath Beetles and 4 Cetonid Beetles from Africa.
- HENRY BROWN, Paris, France.  
A small collection of Butterflies and Moths from Europe.
- DR. B. H. BUXTON, Cornell University Medical College, New York City.  
4 Myriapods and 6 Arachnids.
- C. CHRISTMAN, New York City.  
101 Cray-fish (*Cambarus bartonii* Fab.).
- C. F. CLARKE, Havana, Cuba.  
1 Lot of Scorpions, Millipedes and Spiders.
- WILLIAM T. DAVIS, Staten Island, N. Y.  
Various Insects, 2 Colonies of *Pectinatella magnifica*, and 1 lot of Annelids and Arachnids.
- R. P. DOW, Brooklyn, N. Y.  
1 *Clivina impressifrons*.
- G. P. ENGELHARDT, Brooklyn, N. Y.  
Various Coleoptera.
- H. D. EIGHME, Cristobal, Canal Zone, Panama.  
1 Goliath Beetle.
- EDWARD FORSHAY, New York City.  
2 *Callinectes sapidus*.
- DWIGHT FRANKLIN, New York City.  
2 Horseshoe Crabs (*Limulus polyphemus*).
- COL. EDWARD GEBHARD, Bensonhurst, L. I.  
4 Lunar Moths and Cocoons.
- D. P. GLOVER, Sparta, N. J.  
1 Dobson Fly (*Corydalus cornuta*).
- EMIL GRAMM, Germantown, Pa.  
1 Mantis (*Tenodera sinensis*).
- R. M. HARPER, Tallahassee, Fla.  
1 Sponge from Everglades, Fla.
- EDWARD D. HARRIS, New York City.  
30 Cicindelidæ.
- A. O. HEINRICH, Baldwin, L. I.  
Various Insects and Crustaceans and 1 Fossil Mollusc.
- JOHN HISCOX, New York City.  
1 Specimen of *Libinia emarginata* with oyster shell on carapace.
- DR. ROBERT T. JACKSON, Cambridge, Mass.  
Collection of Echinoderms from various parts of the world, including several rare species.

- J. R. JOHNSON, New York City.  
 1 Giant Slug (*Limax maximus*).
- L. H. JOUTELL, New York City.  
 2 Perrenyi and 2 Yamamia.
- COUNTESS ALEDA VON KROCKOW, Brooklyn, N. Y.  
 1 Lot of Porifera.
- MESSRS. GNEOMAR VON KROCKOW, L. F. BARNUM and OGDEN  
 GILES, Brooklyn, N. Y.  
 Various Myriapods, Isopods, Spiders, Insects and Molluscs.
- C. W. LENG, New York City.  
 Various Insects.
- DR. THEODORE LENS, Military Hospital, Curaçao.  
 1 Lot of Myriapods, Insects and Scorpions.
- J. J. LEVISON, Brooklyn, N. Y.  
 Exhibit of Insect work and Insecticides.
- W. DEW. MILLER, Plainfield, N. J.  
 1 Lot of Myriapods.
- DR. THOMAS H. MONTGOMERY, JR., Philadelphia, Pa.  
 Collection of type specimens of Arachnids (Lycosidae, Pisauridae).
- NEW YORK AQUARIUM, New York City.  
 Various Molluscs, Crustaceans and other Invertebrates.
- C. E. OLSEN, Maspeth, N. Y.  
 200 Specimens of various Insects.
- PEARY ARCTIC CLUB, New York City.  
 1 Lot of Crustaceans from the Arctic Regions.
- CHARLES PERCY, S.S. "Roosevelt."  
 1 Jar with Marine Incrustations.
- DR. ALEXANDER PETRUNKEVITCH, Montclair, N. J.  
 1 *Peripatus*, various Arachnids and 1 nest of Trap-door Spider.
- CHARLES L. POLLARD, Staten Island, N. Y.  
 A collection of Lepidoptera from various parts of the world.
- C. H. ROBERTS, New York City.  
 1 Lot of Coleoptera.
- CAPT. WIRT ROBINSON, West Point, N. Y.  
 A small collection of North American Beetles.
- C. SCHAEFFER, Brooklyn, N. Y.  
 Various Coleoptera.
- GEORGE H. SHERWOOD, New Rochelle, N. Y.  
 1 Beetle.
- C. E. SLEIGHT, Ramsey, N. J.  
 About 4,000 Insects from Ramsey, N. J.
- HARLAN I. SMITH, New York City.  
 1 Lot of Crustaceans from Alaska.
- J. B. SNIFFIN, New York City.  
 Various Crustaceans.
- MISS GEORGINA B. SPOONER, New York City.  
 1 Trap-door Spider with nest (*Stasimopus natalensis* Cambridge).

DR. AARON L. TREADWELL, Poughkeepsie, N. Y.

1 Lot of Annelids.

F. E. WATSON.

23 Pupæ of Lepidoptera and 4 parasites.

REV. M. P. WELCHER, Norwalk, Conn.

1 Wasps' Nest and 1 Moth's Cocoon.

H. D. WHITON, New York City.

1 *Vespa crabro* Linn.

CHARLES WUNDER, Dundee Lake, N. J.

1 Lot of Insects.

#### BY EXCHANGE

BROOKLYN MUSEUM, Brooklyn, N. Y.

111 Blown larvæ and 13 pupæ of Lepidoptera.

1 Specimen of *Euplectella aspergillum* from the Sea of Japan.

1 Lot of Invertebrates from the Marine Biological Laboratory,  
Woods Hole, Mass.

#### BY PURCHASE

2 Dozen slides of mounted Rotifera from various parts of the world.

Prepared by Mr. C. F. Rousselet.

1 Lot of dry and alcoholic Insects from Sardinia and other parts of Europe.

1 Collection of Lepidoptera from Jamaica, B. W. I.

1 Lot of Arachnids and Myriapods from Naples, Italy.

1 Lobster from Baldwin, L. I.

1 Specimen of *Nectopilema verrilli* Fewkes.

A valuable collection of North American Tortricidæ containing many types and cotypes.

#### THROUGH MUSEUM EXPEDITIONS

Collection of about 3,500 Arachnids, Myriapods, Insects and Crustaceans from Austin, Tex., and Mexico. Collected by Dr. Alexander Petrunkevitch.

Collection of Molluscs, Crustaceans, Myriapods, Formicidæ, etc., from the South Sea Islands. Collected by Prof. Henry E. Crampton.

1 Crustacean, 2 Squid and 1 Octopus from Naples, Italy. Collected by Dr. L. Hussakof of the Department of Ichthyology and Herpetology.

Various Molluscs and Insects from Cold Spring Harbor, N. Y. Collected by Dr. F. E. Lutz.

Various Annulates, Insects and Spiders from Highwood, N. J. Collected by Dr. F. E. Lutz.

Various Sponges, Crustaceans, Gastropods and Insects from Far Rockaway, L. I. Collected by Dr. F. E. Lutz.

Collection of Annulates from Tortugas, Fla. Collected by Prof. Aaron L. Treadwell.

Collection of Annulates, Insects, Molluscs, Crustaceans, Arachnids, Myriapods and Sponges from the Ashokan Watershed, N. Y. Collected by Prof. Aaron L. Treadwell and Mr. Gneomar von Krockow.

Collection of Marine Invertebrates (Tunicates, Molluscs, Arthropods, Echinoderms, Bryozoans, Parasitic Worms, Coelenterates, and Sponges) from Woods Hole, Mass., and vicinity. Collected by Messrs. Roy W. Miner, H. Mueller and Dwight Franklin.

# TREES

## BY GIFT

MR. EMIL CALMAN, New York City.

2 Blocks of Black Damar Gum.

FRARY MANUFACTURING CO., Charlemont, Mass.

3 Pieces of timber and wood turnings.

REV. M. P. WELCHER, Norwalk, Conn.

Maple and Cherry stems into which Bittersweet had grown.

EDWARD R. LADEW ESTATE, New York City.

1 Piece Hemlock bark, 6 ft. x 12 ft.

EDWARD D. ADAMS, New York City.

Manna lichens, Department of Parks, Manhattan.

Section of Oak tree planted by King Edward VII of England, October 11, 1860.

# MOLLUSCA

## BY GIFT

JOSEPH MANUEL ANDREINI, New York City.

Miscellaneous collection of shells (bivalves and univalves) comprising *Arca*, *Asaphis*, *Bulla*, *Columbella*, *Cypræa*, *Littorina*, *Margarita*, *Nerita*, *Purpura*, *Trochus*, *Urasalpinx*, from the Island of Sacrificias, Vera Cruz, Mexico.

DEPARTMENT OF ANTHROPOLOGY, through DR. CLARK WISSLER.

1 *Conus hebræus*, 1 *C. vitulinus*, 3 *Cypræa carneola*, 1 *C. mappa*, 1 *C. testudinaria*, 1 *C. talpa*, 1 *Dolium pomum*, 1 *Latirus sanguifluus*, 1 *Mitra sphaerulata*, 1 *Melampus luteus*, 1 *Natica aurantia*, 1 *N. mamillata*, 1 *Ovulum ovum*, 1 *Terebra maculata*, 1 *T. crenulata*.

WILLIAM BRADY, New York City.

A small collection of shells (bivalves and univalves), comprising *Chione*, *Chama*, *Hemicardium*, *Lævicardium*, *Lima*, *Lucina*, *Natica*, *Nerita*, *Modiola*, *Pecten*, *Pectunculus*, *Purpura*, from Florida and Bahamas.

A. DA COSTA GOMEZ, Brooklyn, N. Y.

2 Specimens of *Camæna cicatricosa*, Müll.

1 Specimen of *Meleagrina margaritifera*, coated with *Chama spinosa*, Sow., Gulf of California.

## ✓ L. P. GRATACAP, New York City. ✓

Some 500 specimens of land and marine shells (including recent fossil forms) from Bermuda.

## ✓ CHARLES DAYTON GWYER, Brooklyn, N. Y. ✓

1 Specimen of *Pecten irradians*, coated with *Anomia glabra*, showing reproduction of the pecten ribs on the latter. Long Island Sound.

1 Specimen of *Cypræa reticulatus* (diseased) from Sandwich Islands.

4 Specimens of *Oliva melchersi*, Mke., from Gulf of California.

## ✓ Y. HIRASE, Kyoto, Japan. ✓

*Cardium arenicolum*, *Sunetta excavata*, *Tellina staurella*, *T. scobinata*; *Cassis saburon*, *Conus marmoreus*, *C. pulicarius*, *Cypræa tigris*, *C. vitellus*, *Haliotis ovina*, *Oliva irisans*, *Strombus aratum*, from Japan.

## ✓ JAMES W. JUDD, Brooklyn, N. Y. ✓

2 Specimens of *H. (Coryda) alauda*, color variety, from Cuba.

## ✓ L. MAURER, New York City.

1 Specimen of *Conus fergusonii*, Sow., from Indian Grave, Peru, (a very rare shell).

## ✓ DR. H. A. PILSBRY, Philadelphia, Pa. ✓

Specimens of *Ashmunella chiricahuana*, Dall, *A. fissideus*, Pils., *A. lepiderma*, Pils., *A. levettei*, Bld., *A. wolkeri*, Ferris, from Florida Mts., N. M.

## ✓ MRS. JAMES SULLIVAN, New York City. ✓

13 Specimens of bivalves and univalves, including *Anomia*, *Argina*, *Melongenina*, *Monoceras*, *Nerita*, *Pecten*, *Strombus*, *Triton*, *Turbo*.

## ✓ CHRISTIAN WEBER, Jersey City, N. J. ✓

Specimens of *Ammicola*, *Lymnæa*, *Physa*, *Planorbis* (2 species), from White Lake, near Blairstown, N. J.

## BY EXCHANGE

## ✓ CHARLES DAYTON GWYER, Brooklyn, N. Y. ✓

2 Specimens *Unio (Diplodon) australis*, Lam., from Victoria, Australia.

2 Specimens of *Cardium tenuicostatum*, Lam., from Victoria, Australia.

3 Specimens of *Tapes fumigata*, Sow., from Victoria, Australia.

3 Specimens of *Donax deltoides*, Lam., Victoria, Australia.

1 Specimen of *Mactra rufescens*, Lam., Victoria, Australia.

1 Specimen of *Mactra parva*, Pet., Victoria, Australia.

## ✓ WILLIAM H. WEEKS, JR., Brooklyn, N. Y. ✓

1 *Pecten hastatus*, Sow., British Columbia.

1 *Pecten irradians*, Linn. (yellow variety), British Columbia.

6 Specimens *rubidus*, Hds., British Columbia.

1 Specimen *Chamostrea albida*, Lam., Victoria, Australia.

2 *Conus anemone*, Lam. (var.), Victoria, Australia.

5 *Natica conica*, Lam., Victoria, Australia.

BY PURCHASE

✓ *Lymnæa stagnalis*, *Planorbis trivolvis* (var. *macrostoma*), from Mackenzie River.

✓ A collection of Jamaican shells, comprising *Helix* (*Thelidomus* and *Pleurodonte*), *Hemitrochus*, *Helicina*, *Proserpina*, *Cyclotus*, *Alcadia*, *Cyclostoma*, *Stenogyra*, *Varicella*, *Trochatella*, *Microceramus*, *Urocoptis*, *Brachypodella*, *Physa*.

# INCORPORATION

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

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*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.

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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,  
[L. S.] this fourteenth day of April, in the year one thousand  
eight hundred and sixty-nine.

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

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† 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

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

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

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

*Whereas*, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

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

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

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

*Thirdly.*—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building,

subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

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

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

*Sixthly.*—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the

operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

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

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

of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

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

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

In presence of  
D. PORTER LORD.

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

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

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

SEAL  
of the American  
Museum of  
Natural History

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

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

[SEAL.]

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

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

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

[SEAL.]

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

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

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

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

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

# CONSTITUTION

OF THE

## AMERICAN MUSEUM OF NATURAL HISTORY

IN THE CITY OF NEW YORK

Amended May 10, 1909

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### 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 who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be



eligible 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 quarterly, on the second Monday of every February, May, August and 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 quarterly 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. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such 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, 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.

## ARTICLE V

SECTION 1. The President shall have a general supervision and direction over 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.

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.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly 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.

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.

These accounts shall be under the care of an Assistant Treasurer, who 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.

SEC. 5. The offices of Secretary and Assistant Treasurer may be held by the same person.

## ARTICLE VI

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members 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 to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. 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.

No bills shall be paid unless approved, in writing, by the President, the Chairman of the Executive Committee, or the Director.

## ARTICLE VIII

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. 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.

## 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 five candidates to be elected by ballot at the said meeting.

## ARTICLE X

The President shall be a member, *ex-officio*, of all standing committees.

## ARTICLE XI

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 XII

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 XIII

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 \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500, at one time, may be elected a Fellow, who 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, at one time, may be elected a Life Member.

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, 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.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

#### ARTICLE XIV

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

#### ARTICLE XV

No alterations shall be made in this Constitution, unless at a regular quarterly 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 alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

# BY-LAWS

Amended May 10, 1909

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## I

Benefactors, giving \$50,000, 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 laboratories and parts of the Museum not open to the public, 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 laboratories and parts of the Museum not open to the public, and are issued to Subscribers for distribution among friends and visitors.]

## II

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

## III

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. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

IV

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.

V

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.

VI

All bequests or legacies, not especially designated, 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.

VII

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.





FOR THE EQUIPPING AND FINISHING OF THE  
BUILDING AND THE CONSTRUCTION OF  
ADDITIONS THERETO

LEGAL ENACTMENTS OF 1905

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of five hundred thousand dollars (\$500,000), to provide means for the equipping and finishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto.

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 March 16, 1905, 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 by chapter 409 of the Laws of 1904, 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 five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of the City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen April 11, 1905, a majority of all the members elected voting in favor thereof.

Approved by the Mayor April 18, 1905. (Signed) P. J. SCULLY, *Clerk.*

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Contracts awarded to December 31, 1906.

For the erection of Fire Lines, Sprinkler System, Fire Escapes, etc.

Contract awarded R. J. F. Gerstle Company, November 26, 1905, \$19,838.

Completed January 11, 1907.

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For the erection and completion of a New Wing, to be known as the South Wing of the West Façade, and a Permanent Cellar Passageway running therefrom in northerly and easterly direction.

Contract awarded Guidone & Galardi, May 22, 1906, \$325,000.

Completed June 6, 1908.

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For the construction of a Service Roadway from Ninth Avenue to and under the New South Wing of the West Façade.

Contract awarded Atlanta Contracting Company, July 1, 1909, \$26,000.

APPROPRIATIONS AND EXPENDITURES MADE THEREON  
TO DECEMBER 31, 1909

APPROPRIATION:

By Direct Appropriation.....	\$500,000 00	
Premium on Sale of Bonds.....	<u>10,883 92</u>	\$510,883 92

EXPENDITURES:

Guidone & Galardi.....	\$325,600 00	
Charles Volz, Architect's Fees....	16,279 95	
R. J. F. Gerstle Co.....	19,838 00	
Charles Volz, Architect's Fees....	991 89	
Atlanta Contracting Co.....	26,000 00	
Charles Volz, Architect's Fees....	1,300 00	
Cady, Berg & See.....	6,935 71	
Harlem Contracting Co.....	4,652 94	
George H. Storm & Co.....	1,725 16	
Pittsburgh Plate Glass Co.....	1,696 77	
M. G. Reeves.....	1,596 00	
Connecticut Dynamo & Motor Co..	875 09	
Museum Orders.....	34,710 08	
Carpenters' Payroll, etc.....	<u>61,517 53</u>	
	\$503,719 12	
Outstanding Open Market Orders.....	<u>5,270 26</u>	\$508,989 38
Available Balance Dec. 31, 1909.....		<u>\$1,894 54</u>

# FOR FURNISHING AND EQUIPPING THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1909

BY THE BOARD OF ALDERMEN

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan.

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 2, 1909, 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 one hundred thousand dollars (\$100,000), to provide means for furnishing and equipping The American Museum of Natural History, Seventy-seventh Street and Columbus Avenue, Borough of Manhattan, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars (\$100,000), the proceeds whereof to be applied to the purposes aforesaid.”

Adopted by the Board of Aldermen July 13, 1909, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 26, 1909.

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

# LIST OF MEMBERS

## PATRONS

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

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SAMUEL V. HOFFMAN.  
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C. P. HUNTINGTON.\*  
Mrs. C. P. HUNTINGTON.

\* Deceased

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 FREDERICK E. HYDE, Jr.  
 JAMES H. HYDE.  
 ADRIAN ISELIN.\*  
 ADRIAN ISELIN, Jr.  
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 D. WILLIS JAMES.\*  
 CHARLES M. JESUP.  
 MORRIS K. JESUP.\*  
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 Lord LEITH OF FYVIE.  
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 PHILLIPE MARCOU.  
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 FRANCIS O. MATTHIESSEN.\*  
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 MASON MITCHELL.  
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 J. PIERPONT MORGAN, Jr.  
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 Mrs. WM. H. OSBORN.\*  
 OSWALD OTTENDORFER.\*  
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 Dr. WM. PEPPER.\*  
 I. N. PHELPS.\*  
 S. WHITNEY PHENIX.\*  
 HENRY CLAY PIERCE.  
 HENRY W. POOR.  
 PERCY R. PYNE.\*  
 PERCY R. PYNE.  
 J. HAMPDEN ROBB.  
 COLEMAN T. ROBINSON.\*

\* Deceased

JOHN D. ROCKEFELLER.  
 JOHN D. ROCKEFELLER, Jr.  
 WM. ROCKEFELLER.  
 Col. ARCHIBALD ROGERS.  
 THEODORE ROOSEVELT.\*  
 THEODORE ROOSEVELT.  
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 WILLIAM C. SCHERMERHORN.\*  
 JACOB H. SCHIFF.  
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 JESSE SELIGMAN.\*  
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 JAMES BAKER SMITH.\*  
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 FREDERIC W. STEVENS.  
 D. JACKSON STEWARD.\*  
 A. T. STEWART.\*  
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 APPLETON STURGIS.\*  
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 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 JONATHAN THORNE.\*  
 JONATHAN THORNE.  
 Miss PHEBE ANNA THORNE.\*  
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 VICTOR CORSE THORNE.  
 JOHN B. TREVOR.\*  
 JOHN B. TREVOR.  
 Mrs. JOHN B. TREVOR.  
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 GEO. W. VANDERBILT.  
 W. K. VANDERBILT.  
 HAROLD GARRISON VILLARD.  
 HENRY VILLARD.\*  
 EDWIN H. WEATHERBEE.  
 Dr. WILLIAM M. WHEELER.  
 WILLIAM C. WHITNEY.\*  
 RICHARD T. WILSON.  
 Miss C. L. WOLFE.\*  
 JOHN D. WOLFE.\*

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*By contribution of \$500, or through honorary election*

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SAMUEL P. AVERY.*	WHEATON B. KUNHARDT.
CHARLES T. BARNEY.*	Prof. WILLIAM LIBBEY, JR.
THOMAS BARRON.*	A. A. LOW.*
CORTLANDT FIELD BISHOP.	HENRY G. MARQUAND.*
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JAMES H. JONES.	Mrs. ROBERT WINTHROP.
GOVERNEUR KEMBLE.*	R. A. WITTHAUS, M.D.

Miss CAROLA WOERISHOFFER.

## HONORARY FELLOWS

Dr. BASHFORD DEAN.

\* Deceased

Baron LUDOVIC MONCHEUR.

## LIFE MEMBERS

*By contribution of \$100, or through honorary election*

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 G. B. AGNEW.  
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 Miss MARIA R. AUDUBON.  
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 SAMUEL P. AVERY.  
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 JOHN S. BARNES.  
 JOHN HENDLEY BARNHART, M.D.  
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 AUGUST BELMONT.  
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 SAMUEL R. BETTS.

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 FREDERICK BILLINGS.  
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 T. W. BLAKE.  
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 CORNELIUS N. BLISS.  
 CORNELIUS N. BLISS, Jr.  
 GEORGE BLUMENTHAL.  
 EDWARD C. BOHDE.  
 A. K. BOLAN.  
 GEORGE C. BOLDT.  
 W. B. BOURN.  
 FREDERICK G. BOURNE.  
 Mrs. TEMPLE BOWDOIN.  
 GEORGE W. BRACKENRIDGE.  
 Mrs. WM. H. BRADFORD, Sr.  
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 COURTNEY BRANDRETH.  
 BENJAMIN BREWSTER.  
 GEORGE S. BREWSTER.  
 WILLIAM BREWSTER.  
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 GEO. MCKESSON BROWN.  
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 DAVID LONEY BRUCE-BROWN.  
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 HENRY CHAUNCEY.

\* Deceased

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 JAMES A. CHURCH.  
 LESTER B. CHURCHILL.  
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\* Deceased



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 WM. P. ENO.  
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 ALLEN W. EVARTS.  
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 CHILDS FRICK.  
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 WILLIAM H. GEBHARD.\*  
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 BENJAMIN HART.\*  
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 CHARLES C. HIBBARD.\*  
 JAMES J. HIGGINSON.  
 HUGH HILL.  
 FREDERIC DELANO HITCH.  
 VeryRev.E.A.HOFFMAN,D.D.,LL.D.\*  
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 THEO. D. HOWELL.\*  
 Mrs. FLORENCE HOWLAND.  
 ALFRED M. HOYT.\*  
 ALFRED W. HOYT.  
 MARK HOYT.\*  
 JOHN HUBBARD.  
 Dr. ALEX. C. HUMPHREYS.  
 WILSON G. HUNT.\*  
 ARCHER M. HUNTINGTON.  
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 H. E. HUNTINGTON.  
 FRANK D. HURTT.  
 KARL HUTTER.  
 CLARENCE M. HYDE.\*  
 Dr. FREDERICK E. HYDE.

JAMES H. HYDE.  
 HENRY IDEN.  
 GEORGE ILES.  
 W. B. ISHAM.\*  
 D. B. IVISON.\*  
 THEO. F. JACKSON.  
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 Dolan, Mrs. Clarence W.  
 Doll, Jacob  
 Dominick, Bayard, Jr.  
 Dommerich, L. F.  
 Doremus, R. P.  
 Dormitzer, Henry  
 Dorsett, R. Clarence  
 Doughty, Mrs. Alla  
 Douglass, Alfred  
 Douglass, Benjamin, Jr.  
 Douglass, Mrs. R. Dun  
 Dow, Mrs. Frederic G.  
 Dowd, Joseph  
 Downey, John I.  
 Dows, Mrs. David

Drake, Miss Mary E.  
 Drakenfeld, B. F.  
 Draper, Chas. A.  
 Draper, Charles D.  
 Drayton, J. Coleman  
 Dreier, Carl  
 Drey, Morris  
 Dreyer, John P.  
 Drummond, I. Wyman  
 Duane, James May  
 Du Bois, F. N.  
 DuBois, Miss Katharine  
 DuBois, Dr. Matthew B.  
 Dudley, P. H.  
 Dulles, William  
 Duncan, Mrs. John P.  
 Duncan, Stuart  
 Dunham,  
     Mrs. George H.  
 Dunham, H. F.  
 Dunlap, Mrs. R.  
 Dunn, Gano  
 Durkee, Eugene W.  
 Dutcher, William  
 Dutton, Charles T.  
 Dwight, John E.  
 Dwight, Dr. Jonathan, Jr.  
  
 Eaton, Geo. Dummer  
 Edgar, Daniel  
 Edgell, George S.  
 Edmonds, John W.  
 Edson, Jarvis B.  
 Edwards, R. L.  
 Eekhoff, Herman J.  
 Ehrich, Jules S.  
 Ehrich, Mrs. Wm. J.  
 Eilbeck, J. H.  
 Eilers, Karl  
 Eilshemius, Henry G.  
 Eimer, A. O.  
 Eimer, August  
 Einstein, I. D.  
 Elliott, Mrs. George  
 Ellis, John W.  
 Ellis, W. H.  
 Ellis, Wm. D.

- Ely, Fredk. G.  
 Emanuel, John H., Jr.  
 Embury, Miss Emma C.  
 Emery, Charles G.  
 Emmet, C. Temple  
 Emmet, Miss Lydia F.  
 Emmet, Robert Temple  
 Engle, Robt. H.  
 Eno, John Chester  
 Erbsloh, R.  
 Erdmann, Martin  
 Erstein, Leopold  
 Ettlinger, Louis  
 Evans, Richard  
 Evans, William T.  
 Ewing,  
     Mrs. Thomas, Jr.  
 Fabbri, Ernesto G.  
 Fahnestock, H. C.  
 Faile, Charles V.  
 Fairbanks, Henry P.  
 Fairchild, Charles S.  
 Fairchild, S. W.  
 Fargo, James C.  
 Farish, John B.  
 Farnham,  
     Mrs. Horace P.  
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 Fatman, Morris  
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 Fearons, George H.  
 Fellows, Wm. Gordon  
 Ferguson, Alfred L.  
 Ferguson, Mrs. Farquhar  
 Ferguson, Harry L.  
 Ferris, Frank A.  
 Field, Wm. B. Osgood  
 Field,  
     Mrs. Wm. B. Osgood  
 Fischer, T. Tasso  
 Fisher, L. G.  
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 Flint, Dr. Austin, Jr.  
 Flint, Chas. R.  
 Flower, Frederick S.  
 Floyd-Jones, Edward H.  
 Fohr, Franz  
 Follmer, Charles J.  
 Foot, Miss Katharine  
 Fordyce, Dr. John A.  
 Forster, Wm.  
 Forsyth, Robert  
 Foster, Edward W.  
 Foster, J. Hegeman  
 Foster, Scott  
 Frankenberg, W. V.  
 Frankfield, A.  
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 Fraser, Miss J. K.  
 Freedman, Andrew  
 French, Daniel C.  
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 French, Richmond S.  
 French, S. A.  
 Frew, Walter E.  
 Fried, Samson  
 Friedlander, Louis  
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 Frissell, A. S.  
 Frye, Jed  
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 Fulda, Clemens, M.D.  
 Fuller, Mrs. Eugene  
 Furst, Arnold S.  
 Gade, W. F.  
 Gale, Miss Margaret E.  
 Gallaway, Robert M.  
 Gannon, F. S.  
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 Gardiner, James T.  
 Gartland, George E.  
 Garver, John A.  
 Gaunt, James  
 Gawtry, H. E.  
 Gay, Joseph E.  
 Geer, Geo. J.  
 Geer, Robert C.  
 Geer, Walter  
 Gerard, Victor  
 Gerrish, Frank Scott  
 Gilbert, Clinton  
 Gillies, Edwin J.  
 Gillies, John S.  
 Gilmore, W. S.  
 Glatz, Charles  
 Glazier, Henry S.  
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 Goddard, F. N.  
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 Godkin, Lawrence  
 Goeble, Lewis S.  
 Goldschmidt, Geo. B.  
 Goldschmidt, S. A.  
 Goodchild, John  
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 Goodfriend, Meyer  
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 Gould, Miss Helen M.  
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 Grant, R. Suydam  
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 Greeff, Ernest F.  
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 Greenwood, Isaac J.  
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 Greer, Rt. Rev. David H.  
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 Gregory, Chas. E.  
 Gregory, E. C.  
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 Grinnell, George Bird  
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 Griswold, Chester  
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 Guggenheim, William  
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 Gutmann, Carl

Hague, Arnold  
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 Haines, Henry F.  
 Hale, Thomas  
 Hall, Mrs. John H.  
 Hall, W. H.  
 Halls, William, Jr.  
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 Halsey, Robert H.  
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 Hamburger, Samuel B.  
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     Miss Catherine L.  
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     Louis Gordon  
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     Mrs. Ogden H.  
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     Mrs. McDougall  
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     Miss Caroline Coventry  
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 Heinze, Arthur P.  
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 Hendricks, Francis  
 Hendricks, Harmon W.  
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     Miss Augusta D.  
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 Hoskins, C. F.  
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 Howard, Montague  
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     John J., M.D.  
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     Mrs. Georgia C.  
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 Humphreys, Geo. H.  
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- Hüpfel, J. Chr. G.  
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     Samuel Macauley  
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     Mrs. Frederic B.  
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 Josephi, E. A.  
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 Judson, Henry I.  
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 Kahle, M.  
 Kahn, Felix E.  
 Kahn, Otto H.  
 Kahn, Ulysses S., M.D.  
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     Mrs. Hamilton Fish  
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     Mrs. Frank Browne  
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 Kimbel, Henry  
 King, Thos. M.  
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     Mrs. Wm. M.  
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     Mrs. Thomas  
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 Klaw, Marc  
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 Knapp, Mrs. H. K.  
 Knauth, Antonio  
 Kohlman, Charles  
 Kohn, Arnold  
 Kohn, S. H.  
 Kohn, Theo. A.  
 Kohns, L.  
 Kolb, Gustave F.  
 Kraus-Boelté,  
     Mrs. Maria  
 Krech, Mrs. Angeline J.  
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 Kuhn, Edward  
 Kuser, Anthony R.  
 Kuttroff, Adolf  
 Lacey, H. D.  
 Lacombe, E. Henry  
 Lagai, Dr. G.  
 Lagowitz, Miss H. L.  
 Laidlaw, Mrs. Henry B.  
 Laidlaw, Mrs. Jas. Lees  
 Lamarche, Henry J.  
 Lambert, Adrian V. S.  
 Lambert, Samuel W.  
 Lammel, Rev. Anthony  
 La Montagne, Harry  
 L'Amoreaux, J. S.  
 Landon, Francis G.  
 Landon, Henry Hutton  
 Lane, Edward V. Z.  
 Lane, James Warren  
 Lane, Wm. Armistead  
 Langdon,  
     Woodbury G., Jr.

- Lange, J. D.  
 Langmann, G., M.D.  
 Lantz, Jesse  
 Lapham, Lewis H.  
 Lathrop, Alanson P.  
 Lauderdale, Dr. J. V.  
 Laughlin, James, Jr.  
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 Lavelle, Rev. Michael J.  
 La Vie, Geo. A.  
 Lawrence, Emlen N.  
 Lawrence, Miss M.  
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     Gen. Samuel C.  
 Lawrence, William W.  
 Leale, Charles A., M.D.  
 Leacycraft, J. Edgar  
 Ledyard,  
     Mrs. Lewis Cass  
 Lee, Charles N.  
 Lee, Mrs. Frederic S.  
 Lee, J. Bowers  
 Lefferts, Marshall C.  
 Lefferts, William H.  
 Legg, George  
 Lehmaier, James M.  
 Lehmaier, Mrs. Louis A.  
 Lehman, Meyer H.  
 Leigh, B. W.  
 Leighton, George B.  
 Leland, Amory  
 Lemp, Louis  
 Leonori, Charles L.  
 Leshner, A. L.  
 Leupp, Wm. H.  
 Leverich, S. Duncan  
 Levi, Albert A.  
 Levi, Emil S.  
 Levison, Benno, Jr.  
 Levy, Emanuel  
 Levy, Mitchell A. C.  
 Lewis, August  
 Lewis, Frederic Elliott  
 Lewis, Richard V.  
 Lewis, Wm. J., M.D.  
 Lewjsohn, Albert  
 Lewisohn, Miss Irene
- Libbey, Frederick A.  
 Lichtenstein, Melvin  
 Lichtenstein, Paul  
 Lieb, J. W., Jr.  
 Lincoln, Lowell  
 Lisman, Frederick J.  
 Livingston, E. de P.  
 Livingston,  
     Gilbert Robert, Jr.  
 Livingston, Wm. S.  
 Lloyd, Francis G.  
 Lobenstine, W. C.  
 Locke, Charles E.  
 Lockman, John T.  
 Lockwood,  
     Dr. George Roe  
 Loeb, James  
 Loewi, Valentine  
 Loewy, Benno  
 Logan, Frank J.  
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     Mrs. Geo. de Forest  
 Loring, D. A.  
 Lorsch, Henry  
 Louis, Chas. H.  
 Lounsbery, R. P.  
 Lovejoy, A. B.  
 Low, Ethelbert I.  
 Lowell,  
     Miss Carlotta Russell  
 Löwengard, Otto  
 Ludington, C. H.  
 Ludlow, James B.  
 Lueder, A.  
 Lummis,  
     Benjamin Rush  
 Lummis, Wm.  
 Lusk, Miss Anna H.  
 Lüttgen, Walther  
 Lyall, Arthur V.  
 Lydig, Philip M.  
 Lyman, Henry D.  
 Lyman, Theodore  
 Lyon, Ralph
- Maas, Gustavus  
 Mabon, J. B.  
 Macdonald, Charles  
 MacDougall, Geo. R.  
 Mack, Arthur J.  
 Mackey, Oscar T.  
 MacVeagh, Charles  
 Macy, F. H., Jr.  
 Macy, George H.  
 Macy, Wm. H., Jr.  
 Mager, F. Robert  
 Mahl, Wm.  
 Mallory, Charles  
 Manierre, Charles E.  
 Mann, W. D.  
 Mansbach, E.  
 Mansfield, Howard  
 Marbury, Miss E.  
 Markle, John  
 Markoe, Dr. J. W.  
 Marling, Alfred E.  
 Marlor, Henry S.  
 Maron, Otto  
 Marsh, C. P.  
 Marsh, J. A.  
 Marshall, Charles H.  
 Marston, Edgar L.  
 Marston, Edwin S.  
 Martin, E. Howard  
 Martin, W. M.  
 Martinez, M. R.  
 Marvin, Charles D.  
 Marwick, James  
 Mason, Miss Fanny P.  
 Massey, George  
 Mastin, J. Edward  
 Matheson, Wm. J.  
 Mathews, Frank S.  
 Mathews, Thos.  
 Maxwell, John R., Jr.  
 Mayer, Dr. Alfred G.  
 Mayer, Marcus  
 Maynard, George W.  
 McAleenan, Henry A.  
 McAlpin, Dr. D. H., Jr.  
 McAlpin, George L.  
 McBean, Duncan D.  
 McBurney,  
     Charles, M.D.

- McBurney, Mrs. Charles  
 McCagg, Louis B.  
 McCarthy, J. M.  
 McCready,  
     Mrs. Caroline A.  
 McDonald, Wm.  
 McIntyre, Ewen  
 McIntyre, John G.  
 McKelvey, Charles W.  
 McKelvey, J. J.  
 McKenney, Henry P.  
 McKeon, John C.  
 McKim, John A.  
 McKim, Le Roy  
 McLane,  
     James W., M.D.  
 McLean, George H.  
 McMahan,  
     Rev. Joseph H.  
 Mead, Marvin H.  
 Meeker, Henry E.  
 Mehl, Henry  
 Meigs, Titus B.  
 Melcher, John S.  
 Mellen, C. S.  
 Meloy, Andrew D.  
 Melville, Henry H.  
 Messenger, H. J.  
 Metcalfe,  
     Capt. Henry, U.S.A.  
 Meyer, Amandus  
 Meyer, B. G.  
 Meyer, Edwin O.  
 Meyer, Geo. A.  
 Meyer, Harry J.  
 Meyer, Robert B.  
 Meyn, Heinrich  
 Milbank, Joseph  
 Milburn, John G.  
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 Milholland, John E.  
 Miller, D. S.  
 Miller, Geo. Macculloch  
 Miller, Roswell  
 Mills, John T., Jr.,  
 Mitchell, Alfred  
 Mitchell, A. M.  
 Mitchell, Cornelius B.  
 Mitchell, John J.  
 Mitchill, Miss M. E.  
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 Moffitt, Samuel  
 Montant, Alphonse  
 Montross, N. E.  
 Moore, Casimir de R.  
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 Moore, W. H. Helme  
 Morewood, George B.  
 Morgan, Miss Annie T.  
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 Morgan, George H.  
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 Morris, John  
 Morris, Theo. Wilson  
 Morrison, Edward A.  
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 Müller, Robert, Jr.  
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 Munson, C. W.  
 Murphy, Franklin  
 Murray, F. W., M.D.  
 Murray, J. Irvin, Jr.  
 Murtha, Thomas F.  
 Muschenheim, Wm. C.  
 Myers, Chas. A.  
 Myers, L.  
 Myers, Theo. W.  
 Nash, E. S.  
 Nash, Wm. A.  
 Nathan, Frederick  
 Nathan, Harmon H.  
 Nathan, Joseph  
 Neilson, John  
 Nelson, Mrs. S. B.  
 Neuburger, David  
 Neustadt, Mrs. S.  
 Newberry, Truman H.  
 Newbury, Andrew J.  
 Newton, James S.  
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 Nichols, William E.  
 Nicoll, De Lancey  
 Ninick, Mrs. A. K.  
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 Norris, Henry S.  
 Norton, Ex.  
 Norton, Geo. F.  
 Notman, George  
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 Obbrig, Adolph  
 Ochs, Adolph S.  
 Oettinger, P. J.  
 Ogden, Robert C.  
 Olcott, Dudley  
 Olcott, E. E.  
 Olcott, Geo. M.  
 Olesheimer, Jacob  
 Olin, S. H.  
 Ollive, Thos. S.  
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 Olyphant, Robert  
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     Mrs. Leonard E.  
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Parsons, Schuyler L.  
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Patterson, Edward  
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Pearson, F. S.  
Pease, Geo. Card  
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Pedersen, Dr. James  
Pell, Stephen H. P.  
Pellew, Henry E.  
Penfold, Wm. Hall  
Pennington, John C.  
Pennington, Wm.  
Peoples, W. T.  
Perkins, George W.
- Perkins, R. P.  
Perry, Chas. J.  
Perry, William A.  
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Frederick, M.D.  
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Pfender, W. S.  
Phelps, Geo. B.  
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Phillips, Guy  
Phillips, Wm. H.  
Phipps, Henry, Jr.  
Pickering, Henry G.  
Pickhardt, Carl  
Piel, Gottfried  
Piel, Michael  
Pierson, D. H.  
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Pinkus, F. S.  
Piva, Celestino  
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Plaut, Albert  
Plaut, Joseph  
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Porter, Gen. Horace  
Porter, William L.  
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Potter, Frederick  
Potter, James Brown  
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Potts, Jesse W.
- Powell, Wilson M.  
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Procter, William  
Proctor, George H.  
Proctor, Thomas R.  
Pryer, Chas.  
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Pulitzer, Ralph  
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Pyne, Percy R., 2d
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