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FORTY-SECOND ANNUAL REPORT

OF

THE AMERICAN MUSEUM OF NATURAL HISTORY

FOR THE YEAR 1910

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

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NEW YORK

ISSUED FEBRUARY 13, 1911

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FOR 1911

ACTING DIRECTOR

CHARLES H. TOWNSEND, Sc.D.

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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
JOHN A. GROSSBECK, Assistant

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
CHARLES W. LENG, Ph.D., Honorary Curator of Coleoptera

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., Associate Curator of Fossil Fishes
JOHN TREADWELL NICHOLS, A.B., Assistant Curator of Recent Fishes
MARY CYNTHIA DICKERSON, B.S., Assistant Curator of Herpetology

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

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

SCIENTIFIC STAFF FOR 1911—*Continued*

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

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

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
JOHN HENRY O'NEILL, S.B., Assistant

DEPARTMENT OF WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, B.S., Curator

DEPARTMENT OF BOOKS AND PUBLICATIONS

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

DEPARTMENT OF PUBLIC EDUCATION

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

PORTION OF FINISHED FUR SEAL GROUP. Gift of the late Mr. D. O. Mills. The seals were collected expressly for the Museum in 1908 at the Pribilof Islands and were mounted by Mr. Frederick Blaschke, animal sculptor

FORTY-SECOND ANNUAL REPORT

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

The President submits herewith his report of the progress of the Museum for the year 1910. A new feature of the preparation of this report is that its departmental sections* have been written under the President's direction by the Curators and Officers in charge.

Our gratitude should first be expressed to the old friends and supporters of the American Museum, whose generous gifts of the past year are acknowledged in detail in the pages of this report.

While our income from endowment has not materially increased, the total gifts towards exploration and exhibition exceed those of any previous year in the Museum's history.

We have gained also new friends at home and abroad who have been impressed with the spirit and purpose of the Museum. Among the latter may be mentioned especially three from Great Britain, Sir Ernest Shackleton, Mr. F. C. Selous and Mr. Walter Winans. The contribution of the Belgian Government to the Congo Expedition may also be recalled.

The addition of three new departments since 1907, namely, of Living Fishes and Reptiles, of Woods and Forestry and of Public Health, has made serious demands upon our income, when taken in connection with the strengthened personnel of several of the older departments and the general advances in salaries and wages to meet the increased cost of living which affects our entire force of 224 persons. Thus the increased endowment afforded by Mr. Jesup's bequest, which cannot by its terms be used for any item of Maintenance, is offset by these increases. Expansion along this line, how-

* Beginning on page 26.

ever, has now reached its proper limit for some years to come, and the application of an enlarged endowment, which is urgently needed, will be mainly in the direction of placing on exhibition the superb material from many lands with which our storage rooms are still crowded.

The plan for the general rearrangement of our great and rapidly increasing collections and exhibition halls, including the movement in the direction of a final ideal plan which shall be popular, educational and scientific, has made marked progress, but has not yet reached a stage where it can be published.

The maintenance of the Museum by the City has been increased for 1911 to $189,757, but if this were enlarged to the legal limit of $200,000, enjoyed by our sister Museum of Art, it would still fall far below the actual expenditures for maintenance, which amounted in the year 1910 to $229,259.38.

During the present year the whole exhibition space, including the new West Wing, has been completely occupied and application has been made to the Park Department for the erection of a new wing.

We take this opportunity of acknowledging the spirit of cordial coöperation which has animated Park Commissioner Stover and the members of the Board of Estimate and Apportionment.

EXHIBITION, INSTALLATION, ALTERATION

The chief work of the past year has been the equipment and preparation for exhibition of the new West Wing of the Museum on Columbus Avenue and the rearrangement and transfer of the exhibitions and collections in the Department of Anthropology connected therewith. Thus a number of notable collections, some of which have been in the Museum for many years, have been installed for the public in the following new exhibition halls:

Philippine Islands, Fourth Floor, New Wing

South Sea Islands, Fourth Floor, New Wing

Indians of the Southwest, First Floor, New Wing

African Ethnology, Second Floor, New Wing

Main Room of the "Mitla" Restaurant

Removals and rearrangements, in connection with these important changes, have led to the following transfers:

Mineralogical Hall, Fourth Floor, West Wing
Mexican Hall, Second Floor, West Wing

The Hall of Molluscs, which has been removed from the fifth floor, to make room for the new Administrative Offices, is still in preparation and will not be open to the public for some time. This involves a rearrangement of the shell collections of the Museum, among the earliest of its acquisitions, which, when completed, will appear under the new aspect of the modern spirit of museum exhibition.

The Buildings and Plans Committee, in connection with the expenditure of the $100,000 equipment fund, appropriated by the Board of Estimate and Apportionment on July 2, 1909, has instituted a thoroughly systematic method of preparing, approving and filing of all plans and of controlling expenditures. A special room for the Buildings and Plans Committee and for the filing of plans will be fitted up.

The construction of the service roadway from Columbus Avenue under the Southwest Wing was completed in May. The facilities for handling freight and the weighing and storage of coal have been greatly improved thereby.

A restaurant, modeled to conform to the interior of one of the Mexican temples at Mitla, has been opened in the basement. The historic design and equipment of the room in itself, as arranged by Director Bumpus and Professor Saville, have attracted much interest.

For a long time it has been felt that a Members' Room should be provided, which patrons of the Museum and their friends might enjoy while visiting the institution. Such a room is now being equipped on the third floor, from Trustees' funds, with writing tables, telephone booth, etc.

As a greater protection from fire, a new Electric Fire Alarm System has been installed in the basement. The signals

are so arranged that if an alarm is sounded, any employe in the basement can tell instantly in which section of the building the fire is located.

A feature in the furnishing of the new exhibition halls has been the introduction of a new type of gun-metal case with marble base, designed by Director Bumpus in consultation with Secretary Kent of the Metropolitan Museum. These cases are put together in such a way as to facilitate the removal of either side without disturbing the remaining sections or the material within. The construction is simple, artistic, relatively inexpensive, but capable of mechanical improvement in certain details.

The series of changes in the exhibition halls has facilitated the transfer of the Administrative Offices of the Museum to the center of the building, top floor, which is now in progress.

PLANS FOR NEW BUILDING

These changes emphasize the desirability of the adoption and approval by the Trustees of a permanent plan of development of the building, as a whole, also of a final educational and scientific arrangement of all the collections. This matter has been given a great deal of study by the President, in consultation with the heads of various departments, and especially of Anthropology, which department occupies the entire western half of the building.

A preliminary report by the President, entitled "History, Plan and Scope of the American Museum of Natural History," was presented at the Forty-first Annual Meeting of the Trustees, February 14, 1910, in an edition of fifty copies from the Irving Press. A Curators' Edition of the same report will be issued early in 1911, so that the members of the scientific staff may have an opportunity of examining the proposed future plans of the exhibition halls of the Museum and of making any suggestions regarding these plans which may be found desirable, before they are finally adopted by the Board.

In the meantime, Messrs. Trowbridge and Livingston, architects, were invited to prepare preliminary plans for the new Western Entrance Hall of the Museum, facing Seventy-ninth Street. These plans have been very carefully studied by the Buildings and Plans Committee, with reference to making this entrance a monumental gateway to the anthropological half of the Museum and of placing therein, on the first and second floors, the Duc de Loubat collection and other reproduced and original archæological remains from Mexico and Central America, which will represent the high-water mark of native American culture and lend themselves to an imposing architectural treatment. This Hall is being designed in keeping with its contents, and an expert archæologist has been especially despatched by the Museum to the ruins of Mexico and Yucatan to study and prepare detailed plans for structural and mural designs. Director Bumpus and Dr. Spinden also visited Mexico in February for this purpose. At the May Meeting of the Board, the general plans for this great western entrance were approved and referred back to the Committee for the further study of detailed design.

The Committee has also begun the consideration of plans for the construction of an East Wing (South Section of the East Façade) on Eighth Avenue or Central Park West, and of a Court Building in the southeast area.

Responding to a request from the Department of Parks for an estimate of the probable sum which the Museum will require for the purpose of building during the next five years, preliminary application has been made to the City for $2,750,000, or $550,000 per annum for the years 1911–1915, inclusive. This is the amount estimated to be necessary to construct and equip the three new sections and a court building, together with enlargement of the power plant, now under consideration by the Trustees, namely:

WEST ENTRANCE HALL
WEST TRANSEPT
SOUTHEAST WING
COURT BUILDING

The growth of the collections has been so much more rapid than the growth of the building that the Museum still finds itself with its great storerooms on the upper floor overcrowded and with most interesting collections still undisplayed. There are, moreover, certain subjects, which will be of very great value in the educational system of the City, that must be provided for in new buildings, especially astronomy, geography, oceanography and ichthyology. In this connection, for convenience of reference, it is important to summarize the appropriations for building from 1871 to 1909, inclusive:

TOTAL OF APPROPRIATIONS FOR CONSTRUCTION PURPOSES OF THE AMERICAN MUSEUM OF NATURAL HISTORY, 1871–1909

Chapter 290, Laws of 1871	$500,000
Chapter 315, Laws of 1875	200,000
Chapter 44, Laws of 1887	400,000
Chapter 89, Laws of 1889	400,000
Chapter 423, Laws of 1892	350,000
Chapter 448, Laws of 1893	50,000
Chapter 63, Laws of 1894	200,000
Chapter 235, Laws of 1895	500,000
Chapter 175, Laws of 1896	500,000
Chapter 213, Laws of 1897	500,000
Chapter 183, Laws of 1900	350,000
Ordinance Board of Aldermen, July 22, 1902	200,000
Ordinance Board of Aldermen, June 16, 1903	188,000
Ordinance Board of Aldermen, April 11, 1905	500,000
Ordinance Board of Estimate and Apportionment, 1909	100,000
	$4,938,000

The entire sum, namely, $4,938,000, which has been expended thus far for building, is small compared with that appropriated for other great public buildings in the City, or with the important part which the Museum plays in the educational system of New York, or, again, with the large amount, now aggregating $4,473,507.32, which the citizens of New York have contributed to the endowment, to the collections and to the library of this great institution.

GENERAL APPORTIONMENT OF MUSEUM AND CITY FUNDS

To clearly show the general policy and scope of the Museum, it is interesting to present the allotment, after very careful analysis, of the total expenditures of the moneys contributed by the City and by the Museum in the year 1909, as follows:

Analysis of Expenditures in 1909

	By the Trustees and Friends of the Museum	By the City	Total
Administration (Maintenance)			
All salaries and supplies for the purpose of scientific and office administration, heating and lighting, current repairs, care of exhibition halls and collections, sundry and general expenses.			
Salaries	$3,403 36	$122,296 94	$125,700 30
Supplies, etc.	16,565 32	26,835 31	43,400 63
Scientific care of Exhibition Halls, Collections (Maintenance)			
All salaries and supplies for the purpose of preparing, preserving and exhibiting specimens and collections	21,750 06	17,834 51	39,584 57
Publication and Research			
For apportionment of services of the scientific staff for publication and research, services of artists and photographers, the preparation and printing of the Bulletin, Memoirs, American Museum Journal, and of the Jesup North Pacific Expedition Publications.			
Publication	25,695 32	.....	25,695 32
Research	11,021 19	.....	11,021 19
Library			
For the payment of all salaries for care and binding, and for the purchase of books, periodicals, etc.	7,482 56	(salaries only) 9,434 21	16,916 77
Exploration and Purchase of Collections			
For the payment of all field salaries and expenses while in the field, purchases of all specimens and collections, payment of express, freight and custom house charges for the same	96,291 68	.....	96,291 68
Public Education			
For the payment of services and supplies for photographic work, lectures, transferring school collections (excepting maintenance of automobile, but including chauffeur's services) and Children's Room	5,004 14	3,873 95	8,878 09
	$187,213 63	$180,274 92	$367,488 55

The Trustees and friends of the Museum will be especially impressed with the large amount that has been expended, particularly for publication and research, for exploration and purchase of collections, as well as the generous contribution of the Museum to the cause of public education, which is not part of our original contract relations with the City. This general apportionment of funds is not a new feature of the Museum policy, but dates back to the early years of President Jesup's administration. It is this broad scientific policy which has given the Museum its world-wide reputation and which has made a position on its scientific staff as desirable as that of an appointment in one of our larger universities.

The analysis shows also that the general gifts or contributions from all sources to the Museum in 1909 exceed by over $7,000 the City's contribution to maintenance. The payroll, owing to the appointment of new scientific officers, the rounding out of the scientific departments of the Museum so as to cover the whole field of natural history, the salaries of these officers, the increases of salaries to members of the scientific staff as well as to the administrative officers of the institution and to the employes or labor force, during the past three years, has reached a very large total.

EDUCATIONAL EXTENSION

The year's progress in the Department of Education is fully reported upon under the heading "Public Education" on page 26. This feature of the Museum's activity is one which brings it more closely in touch than any other with the welfare of our great City, as a whole, and with our entire public educational system. While in our opinion, the City would not be justified in building an institution for pure research or for exploration, it is more than justified, in fact, it is the very wisest use of public funds, to support and extend the system of an institution which is doing so much for the cause of public enlightenment. Here, again, statistical inquiry has been made which illustrates the march of progress during the past seven years, 1904–1910:

STATISTICS OF NUMBERS REACHED BY MUSEUM EXTENSION SYSTEM

	1904	1905	1906	1907	1908	1909	1910
Board of Education Lectures...	44,000	42,212	45,000	35,068	43,386	28,402	43,549
Children's Lectures.....	35,000	35,000	17,187	26,312	22,931	20,165	9,242
Children's Room and Mrs. Roesler's Special Lectures.....				3,376	5,430	7,359	6,368
Classes visiting the Museum for General Study..	7,380	11,000	6,813	7,795	10,818	8,712	9,284
Meetings of Scientific Societies and other Meetings and Lectures..... ...	21,931	35,281	6,867	11,784	15,587	337,433	58,926
General Attendance for all purposes..	402,449	565,489	476,133	537,894	1,043,582	839,141	613,152
Number of Pupils reached by Circulating Collections.....	250,000	375,000	800,000	725,000	575,801	922,512	839,089
	652,449	940,489	1,276,133	1,262,894	1,619,383	1,761,653	1,452,241

The rise of attendance during the years 1908–1909 was due chiefly to the extraordinary interest aroused by the Tuberculosis Exhibition, which brought thousands of new visitors from the East Side of the City especially. It was this interest which led to the establishment of the new Department of Public Health, which, when in full operation, will render permanent public service in a new field.

EXPLORATIONS, COLLECTIONS AND EXHIBITIONS

The income from the Jesup bequest, as well as the generous gifts of special funds, during the past year, has enabled the Museum to carry on more active and successful expeditions in the field than in any previous year of its existence. The wide geographical extent of our exploratory work may be judged from the following summary:

In the United States

Alaska	Maine
Arizona	Massachusetts
California	Mississippi
Dakota	Montana
Florida	New Mexico

New York

In Foreign Countries

Alberta, Canada	Korea
Arctic America	Mexico
Belgian Congo	Nicaragua
British East Africa	Philippine Islands
Celebes	Samoa
Colombia	Venezuela
Japan	West Indies

The most notable expeditions, perhaps, are those for the benefit of the department of zoölogy, especially the expedition to the Belgian Colony of the Congo and that to British East Africa, as described in Curator Allen's report. It is especially gratifying to note that the Congo Expedition has been partly supported by a contribution from the Belgian Government. Important work has also been done in the collecting of whales off the coast of Japan. The anthropological work in the southwestern as well as in the northwestern United States is yielding fine results. The expeditions for fossil vertebrates have maintained the high standard of previous years. It is greatly desired that special funds should be secured for the continuance of exploration for fossil horses.

HOSPITALITY TO SCIENTIFIC SOCIETIES

The Museum continues to enjoy great popularity as a center for lectures and for conferences of scientific societies and organizations from all parts of the United States. Some of the sessions of the Fortieth Anniversary of the American Fisheries Society were held at the Museum in September, and a luncheon was given to its members.

During the year, the following societies have been entertained:

American Bison Society
American Ethnological Society
American Fisheries Society

American Nature Study Society
American Psychological Association, New York Branch
American Rose Society
American Scenic and Historic Preservation Society
Audubon Society of the State of New York
City History Club of New York
Employees' Nursery Association
Fairview Garden School Association
Geological Society of America
Horticultural Society of New York
Linnæan Society of New York
Mount Holyoke Alumnæ Association
National Association of Audubon Societies for the Protection of Wild Birds and Animals
National Plant, Flower and Fruit Guild
Natural Science Committee of the Associate Alumnæ of the Normal College, New York City
New York Academy of Sciences
New York Entomological Society
New York Library Club
New York Microscopical Society
New York Mineralogical Club
Playground Association of America
School Garden Association of New York
Society of Former Employees of the United States Nurseries
Torrey Botanical Club
West Side Natural History Society

ADMINISTRATION AND CHANGES IN STAFF

The internal administration of the Museum remained under the guidance of Director Hermon C. Bumpus until the middle of June, when he entered upon a six months' leave of absence.

Through the courtesy of the New York Zoölogical Society, Dr. Charles H. Townsend, Director of the New York Aquarium, entered the service of the Museum temporarily as Acting Director, an office which he has filled with marked ability and success.

Professor R. P. Whitfield, who served as Curator of the Department of Geology and Invertebrate Palæontology for more than thirty-two years, and who was made *Curator Emeritus* in 1909, died during the month of April, 1910. He will always be remembered as one who rendered the Museum distinguished and faithful scientific service.

Owing to the heavy tax on Professor Osborn's time, which his administrative duties as President have entailed, he has retired as Curator of the Department of Vertebrate Palæontology, after nineteen years of service, and has been appointed *Curator Emeritus*. Dr. W. D. Matthew, Associate Curator, has been promoted to the active Curatorship.

In May, Dr. Bashford Dean offered his resignation as Curator of the Department of Ichthyology and Herpetology. Dr. Louis Hussakof was promoted to the Associate Curatorship of Fossil Fishes and Mr. John Treadwell Nichols to the Assistant Curatorship of Recent Fishes.

The Department of Public Health was organized last September, with Professor Charles-Edward Amory Winslow, formerly of the Massachusetts Institute of Technology, as its head.

In June, Mr. J. D. Figgins resigned from the preparation staff to accept the Directorship of the Colorado Museum of Natural History at Denver. Later, Mr. Albert E. Butler resigned to accept a position in the preparation department of the same Museum.

In connection with the leave of absence of Director Bumpus and of the resignation of Curator Dean, the Trustees at the May meeting appointed a Committee to consider the present system of internal administration of the Museum, as provided for in the Rules and Regulations of 1902, and to suggest to the Board such changes as might be deemed necessary.

I. PROGRESS OF THE DEPARTMENTS

PUBLIC EDUCATION

George H. Sherwood, Curator

Department of Public Education.—According to the Articles of Incorporation of the Museum in 1869, one function is to furnish popular instruction, and on the basis of this charter the Museum entered into contractual relations with the City. Not only have the Trustees met in full the letter and spirit of this contract with the City, but in many ways,

especially through educational work, they have rendered returns to the City far in excess of their contract obligations.

Without additional compensation from the City, the distribution of circulating collections to the public schools was undertaken, special lectures for school children were instituted and special arrangements were made for the reception of classes and for their guidance through the Museum.

This extension work now involves a supplementary annual expenditure from Trustees' funds of approximately $5,000.

For the purpose of making the teachers better acquainted with the ways in which the Museum is prepared to assist them in their work, a *Teachers' Day* was held at the Museum early in November. Representatives from all of the schools in the City were invited to be present and brief illustrated lectures were given by members of the scientific staff. Addresses were also made by President Henry Fairfield Osborn and Dr. William H. Maxwell, Superintendent of Schools, which were followed by a general reception. One of the results of *Teachers' Day* has been the creation of a greater interest on the part of the teachers in *Museum Extension Work*, and applications for the use of the collections have materially increased.

Museum Extension to the Schools and Libraries.—This is the seventh year that the Museum has supplied the schools of the City with the circulating collections of nature study specimens, and this work continues to receive the emphatic approval of the officials and teachers of the Board of Education. The material contained in these collections has been selected with a view to placing in the hands of the teachers the specimens which they require for class-room work. At the present time these collections include characteristic forms of birds, insects, lower invertebrates, minerals and native woods.

The collections are delivered to the schools by Museum messengers and are called for at the end of the loan period. During the year 334 schools have been supplied and 839,089 children have studied the collections.

Several special collections have been furnished to various branch libraries of the City. The material available for this purpose includes Philippine, Chinese, Indian, Eskimo, African,

Hiawatha, Fiber and Cord, Bird and Native Woods exhibits, and plans for the further development of this feature of the Museum's work are under way.

STATISTICS RELATING TO THE CIRCULATING COLLECTIONS

	1904	1905	1906	1907	1908	1909	1910
Number of Collections in use.....	120	400	435	450	484	435	390
Number of Schools of Greater New York supplied...	115	200	300	325	383	419	334
Number of Pupils studying the Collections.....	250,000	375,000	800,000	725,000	575,801	922,512	839,089

LECTURES TO SCHOOL CHILDREN.—Owing to the many demands that were made upon the time of the assistants in this department, the regular informal course of lectures to school children was omitted in the spring. The fall course, however, took place as usual, with an attendance of 9,242. These lectures are given by various members of the Museum staff, with a view to supplementing the class-room work in geography and history.

In addition to the regular course of lectures to school children, on request, special lectures were arranged for pupils from the High Schools and the Training School for Teachers.

GENERAL LECTURES.—The general lectures have included two courses to Members of the Museum, the usual series given under the auspices of the Board of Education, free lectures on public holidays, and special lectures in conjunction with the New York Academy of Sciences and Affiliated Societies. The attendance at these lectures has been 58,961.

PHOTOGRAPHY.—The general photographic work has been extensive. The special feature of it has been the preparation of the large transparencies for the African Hall, which have been colored in oil.

The reference file of photographs has received several important additions. We are greatly indebted to Mr. A.

Radclyffe Dugmore for permission to make a series of prints from his remarkable negatives of big game taken in British East Africa. A similar courtesy has been extended by Mr. Kermit Roosevelt in connection with the negatives taken by him on his recent hunting trip with his father. Dr. Louis L. Seaman, another African traveler, has given the Museum permission to reproduce his photographs.

Children's Room.—The Children's Room continues to enjoy the popularity which was manifested at its inception. While the main purpose of the room is recreative, an instructor is always present to answer questions and to guide the interests of the children in profitable channels. Owing to the limited equipment and to the cramped quarters now occupied, it is necessary to restrict the attendance, and many children have to be turned away. It is hoped that a patron may be found who will provide the necessary support for extending this work.

Room for the Blind.—Through the bequest of the late Phebe Anna Thorne and the generosity of her executors, a sum of $25,000 has been provided as an endowment of the Room for the Blind, the income from which will provide ample funds for the development of this feature of the Museum's activities. This sum was given as a memorial to Mr. Jonathan Thorne, and a bas-relief tablet in bronze, executed by Mr. Chester M. Beach, has been placed in the room.

During the year, classes from the public schools and from the Institute for the Blind, as well as single visitors, have made use of this exhibit. Plans have also been made for supplying the classes of blind children in the public schools with special loan collections of nature study specimens.

The services of the instructor have been in increasing demand by teachers desiring to have their pupils guided through the Museum, and many special lectures have been given on request.

MINERALS

L. P. Gratacap, Curator

Department of Mineralogy.—The accessions for the year, of noteworthy importance, have been almost entirely confined to specimens procured through the interest of the

Matilda W. Bruce endowment. Among the additions from the Bruce Fund may be mentioned a remarkable Binnite from Switzerland, a Hambergite from Madagascar, the new and brilliant crystallizations of Phenacite from Brazil, the new and attractive Natrochalcite from Chile, Seligmanite from Montana, and the large clear Topazes from Texas. There have also been purchased, through the general appropriation fund, an interesting large twin Calcite from St. Lawrence County, New York, Tourmaline crystals from California and a beautiful native silver group from Houghton, Michigan. Mr. J. Pierpont Morgan presented to the department through Dr. George F. Kunz a very beautiful cut gem of the new gem-stone "Morganite," weighing 57 carats. This is the rose beryl from Mount Bity, Madagascar. With it we received an uncut specimen of the beryl itself. These specimens have been added to the Gem Collection and have attracted deserved attention.

No research work or collecting has been done, with the exception of some local examinations.

The exhibition of minerals is still unsatisfactory, but it is hoped that in the new hall, to which the department expects soon to move its collection, it will be possible to adequately meet the needs of the public, and also the indisputable claims of the collector and the student. This anticipated removal has made necessary the preparation of plans contemplating the new conditions, and plans also calculated to facilitate the mechanical problem of the removal itself.

The Curator has prepared this year a work entitled "Popular Mineralogy," in which is embraced a large section, descriptive, in a popular way, of the Bement Collection of Minerals.

MAMMALS AND BIRDS

J. A. Allen, Curator

Department of Mammalogy and Ornithology.—The accessions in ornithology have been less than in several former years, but in mammalogy they greatly exceed those of any recent year in the history of the department, not only in number of specimens but in their importance. Nearly all have been acquired by purchase or through Museum expedi-

tions. The number of specimens of mammals received during the year is 1,068; of birds, 1,130 skins and about 125 sets of eggs.

As heretofore, valuable specimens of both mammals and birds have been received in the flesh from the New York Zoölogical Society, and many specimens, also in the flesh, from the Central Park Menagerie. Among the more noteworthy gifts are a small collection of birds from the Samoa Islands, including several rare species, and a topotype of a newly described cat from Tibet, from Honorable Mason Mitchell, U. S. Consul at Samoa; two skins of the Glacier Bear, from Alaska, presented by Mr. G. Frederick Norton, of New York City; a skeleton of the rare Giant Forest Pig (*Hylochœrus*) of Africa, presented by Mr. K. V. Painter, of Cleveland, Ohio; a collection of small mammals from Colorado, received from Mr. N. G. Buxton, and a small collection of rare birds from the Hawaiian Islands, from Dr. C. H. Townsend.

During the year a valuable collection has been received from the Museum's Stefánsson-Anderson Arctic Expedition, consisting of 200 bird skins, numerous nests and eggs and nearly 100 mammals, the latter including a series of Barren Ground Caribou and White Sheep. Many of these specimens were obtained near the Arctic coast, in the Colville River district of Alaska, a region hitherto almost unexplored.

Mr. M. A. Carriker, Jr., has continued his work for the Museum in eastern Venezuela, and during the year has sent to the Museum about 200 mammals, many of which were new to the collection and several new to science. He has now transferred his field of work to western Venezuela, where he will remain during 1911.

Especially important acquisitions have been made through the work of Mr. Roy C. Andrews, Assistant in Mammalogy, who late in the season of 1909 was detailed to the "Albatross" on a trip of exploration through the Dutch East Indies, through the courtesy of the United States Bureau of Fisheries. Although opportunities for shore collecting were few and brief, Mr. Andrews secured about 350 specimens of birds and a considerable number of mammals, very few of

which were previously represented in the Museum's collections. On leaving the "Albatross" at Nagasaki, in February, 1910, Mr. Andrews was able to arrange with the President of the Oriental Whaling Company of Osaka for opportunity to secure skeletons of a considerable number of whales and porpoises, all of which have safely reached the Museum. They include the Sulphurbottom, Finback, Sperm and Sardine whales, all fully adult and of large size respectively for the species; also two Killer whales and ten porpoises, representing four species, one of them new to science. He was able also to study, photograph and take measurements of 180 large whales, and to study and photograph various parts of skeletons *in situ*, the relations of which cannot always be satisfactorily determined after maceration. Not only is Mr. Andrews entitled to great credit for the use he made of his opportunities, but the Museum is greatly indebted for courtesies and material assistance rendered to Mr. Andrews by the President and other officials of the Oriental Whaling Company, without whose cordial assistance such success would have been impossible.

Early in the year (February to May) Mr. F. M. Chapman, Curator of Birds, made a trip to the Mount Orizaba region of Mexico to secure material and data for a large "habitat group" to illustrate American tropical bird life. The trip was eminently successful, everything having been secured that can be required in the construction of the group.

Thus far no material has been received from the Museum's Congo Expedition under the leadership of Messrs. Herbert Lang and James Chapin. This expedition, which was made possible through the contributions of a number of friends of the Museum, left New York in May, 1909, with the expectation of remaining in the Congo for three years. Advices received from them give assurance that they have thus far met with most excellent success along every line of their work, the collections already made numbering thousands of specimens of birds and mammals, besides much material in other departments of natural history.

Mr. W. B. Richardson, who for three years collected mammals and birds for the Museum in Nicaragua, was sent on an expedition to western Colombia in October of the present

A Dinosaur Mummy. This dinosaur (*Trachodon annectens*) was discovered in Wyoming in 1908 by Mr. Charles H. Sternberg and purchased by the Museum through the Morris K. Jesup Fund

year, and a small collection has already been received from him. His work promises excellent results and will be continued during the coming year.

The White Bighorn Sheep Group was completed early in the year, and a Fur Seal Group, the gift of the late Mr. D. O. Mills, has been prepared and placed on exhibition; also a hippopotamus and several large African antelopes. The new Loon Group has been added to the series of Habitat Groups of Birds, and work on the Mount Orizaba Life-Zone Group is well under way.

Six papers, prepared by the Curator, have been published during the year in the Museum *Bulletin*, five of which relate to mammals and one to birds. One of them is a final report on the mammals recently received by the Museum from Nicaragua. As usual, the Curator has also had editorial supervision of the *Bulletin*.

Mr. Miller, Assistant in Ornithology, has spent much time on a monographic review of the birds of Nicaragua, based on the Richmond collection, which will be ready for publication in the next volume of the *Bulletin*.

EXTINCT VERTEBRATES

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

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The most important accessions of the year have been through Museum expeditions to the Cretaceous Dinosaur beds of Montana and of Alberta, Canada, in charge of Mr. Brown, and to the Lower Eocene of Wyoming, in charge of Mr. Granger. Both expeditions were more than usually successful. Mr. Brown obtained a large and valuable collection, including skeletons of the Duck-billed Dinosaur, of a diminutive Horned Dinosaur and of a large Armored Dinosaur. Mr. Granger's party secured a skeleton of the Four-toed Horse, *Eohippus*, representing a somewhat older stage in the Ancestry of the Horse than has been known hitherto, besides a large series of skulls, jaws, etc., of Lower Eocene mammals, many of them new to science. Dr. W. J. Sinclair, of the geological staff of Prince-

ton University, joined this expedition as a volunteer, and contributed valuable observations upon the geology of the country, besides discovering many of the specimens secured.

A discovery of peculiar interest to citizens of New York is a considerable part of a dinosaur skeleton at Fort Lee, at the very gates of the city. This specimen was found in the red shales which underlie the trap rock of the Palisades about a mile and a half north of the ferry landing, and the animal whose bones are thus preserved probably wandered in life over what is now Manhattan Island. The Museum is indebted for this discovery to Messrs. J. E. Hyde, D. D. Condit and J. C. Boyle, postgraduate students under Professor Kemp of the Department of Geology of Columbia University.

Through the efforts of President Osborn, Dr. R. Broom, the distinguished palæontologist of Cape Colony, has been induced to collect in the interests of this Museum in the Karroo formation of that region, and has already secured a skeleton and a fine series of skulls of the ancient and peculiar types of fossil reptiles which inhabited Africa during the Permian Period.

The Museum has secured through exchange with the Tübingen University a fine Ichthyosaur skeleton, which when restored and mounted will afford an excellent companion piece to the Plesiosaur skeleton recently placed on exhibition. Other important exchanges have been made with the Stockholm and La Plata Museums. The exchange list in this department now includes the Museums of London, Paris, Berlin, Munich, Stuttgart, Tübingen, Frankfurt, Darmstadt, Basel, Prague, Lyons (City and University), Stockholm, Christiania, Moscow, Bucharest, Bologna, Stellenbosch, Adelaide, Buenos Aires, La Plata, and the Universities of Yale, Princeton, Michigan, Kansas, California, the National Museum and others.

Finally, in earnest of the cordial relations existing between this institution and the Senckenberg Museum of Frankfurt, the directors of that museum have recently notified us of their decision to present to us a splendid skeleton of *Mystriosaurus*, a marine crocodile of the Jurassic Period. This will be an important addition to the series of fine skeletons of

extinct marine reptiles of Europe which have been acquired chiefly through exchange and gift.

The most important additions to the exhibition series are the skeletons of *Cryptoclidus*, a Plesiosaur or marine reptile of the Jurassic Period, and of *Camptosaurus*, an American relative of the *Iguanodon* of Europe; a fine skull and jaws of the great Horned Dinosaur, *Triceratops*, and a skull of *Mastodon*. A number of important skeletons or groups are ready for exhibition or are in course of preparation. Of these the group of four great Ground Sloth skeletons (completed) and skeletons of a small ancestral Ground Sloth and of the peculiar extinct Ungulates, *Toxodon* and *Macrauchenia* (in preparation) are designed for the South American exhibit in the new hall soon to be occupied. A skeleton of the clawed ruminant, *Agriochœrus*, and a panel mount of five skeletons of *Stenomylus*, an extinct Cameloid, have been completed for the Fossil Mammal Hall. For the Dinosaur Hall the skeleton of the Toothed Bird, *Hesperornis*, and the "Dinosaur Mummy" are completed; those of the primitive reptile, *Diadectes*, and the primitive amphibian, *Eryops*, of the Permian Period, are nearly completed; the *Tyrannosaurus* group, two giant carnivorous dinosaurs with their prey, is well under way, and work has begun on a mountable skeleton of the Horned Dinosaur, *Triceratops*.

In all the more important recent exhibits of this department the object has been, by grouping and selection of characteristic poses and by adding suitable accessories, to increase their interest and teaching value. This method, widely adopted for exhibits in recent zoölogy, appears to be equally successful in the exhibition of fossil vertebrates. With collections of the size that those of this department have attained, it appears important to aim at quality rather than quantity in its exhibits and to show a few impressive and instructive groups rather than a much larger number and variety of individual specimens.

A series of four large wall panels for the Tertiary Mammal Hall, the gift of Mr. J. P. Morgan, Jr., illustrating faunal life scenes in that period, has been designed and the preliminary drawings completed by Mr. Knight, under direction of Professor Osborn.

Mr. Chubb has continued his work upon modern osteology, especially of the horse, and has several important preparations completed or in progress.

The most important publication of the year from this department is Professor Osborn's "Age of Mammals," published by the Macmillan Company, in which for the first time the results of the great activity of recent years in collecting and research upon fossil mammals have been brought together in popular form. This work has been accomplished through the aid of the Research and Publication Fund. No adequate text-book on this subject hitherto has existed, and the need for one has been frequently urged. "The Orders of Mammals," by Dr. Gregory, an able and philosophic study of the relationships of the various large groups of mammals, living and extinct, issued as Vol. XXVII of the *Bulletin*, also has been very favorably received. Studies of the *Tyrannosaurus* skull and the *Trachodon* mummy by Professor Osborn, upon the Toothed Birds by Mr. Brown, upon Permian Vertebrates by Dr. Case and Dr. Broom, upon Sabretooth Tigers and Primitive Rodents by Dr. Matthew, have been completed, and other important research work is in progress.

In consequence of the heavy demands upon Professor Osborn's time as President, Dr. Matthew has been appointed active Curator, Professor Osborn taking the title of *Curator Emeritus* and continuing to direct, as formerly, the general policy of the department, while relieved of its executive detail. Mr. Barnum Brown has been appointed Associate Curator of Fossil Reptiles, and Mr. Walter Granger, Associate Curator of Fossil Mammals; these appointments are a well merited recognition of their successful exploration work and efficient and loyal coöperation in the various activities of the department. The department is also fortunate in the addition of Dr. W. K. Gregory to its regular staff.

LIVING REPTILES, BATRACHIANS, LIVING AND EXTINCT FISHES

BASHFORD DEAN, Curator; LOUIS HUSSAKOF, Associate Curator

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY.—Professor Bashford Dean served as Curator until April and then

handed the department over to Dr. Louis Hussakof, who took charge of the fossil fishes. The care of the living fishes was assigned to Mr. Nichols, under the supervision of the Director, and that of the living batrachians and reptiles to Miss Dickerson, also under the supervision of the Director.

Living Fishes.—Early in March the operations of the yacht "Tekla," which had been cruising in Florida waters for several weeks under command of Messrs. Alessandro and Ernesto Fabbri, came to an end. Through the kind interest of the Messrs. Fabbri, the Museum received by gift collections of fishes made during this trip, chiefly under the direction of Mr. Nichols. The Museum also received as a gift from the Messrs. Fabbri the moulds of a large cub shark and of a fourteen-foot saw-fish, both of which have been largely remodeled and cast and are now displayed in the Corridor of Recent Fishes.

Through the generosity of Mr. Cleveland H. Dodge, the department was enabled to send for a period of seven weeks (middle of March to the end of April) an expedition to Moon Lake, Mississippi, for the purpose of collecting materials for an exhibition group of that singular ganoid, popularly known as the paddlefish. The expedition succeeded beyond all expectation. The specimens were collected, the necessary color studies and photographs made and moulds of fish in various attitudes prepared. The entire material now awaits preparation into a group. This expedition was in charge of Dr. Louis Hussakof, who acted under the general direction of Professor Dean and was ably assisted in the field by Mr. Dwight Franklin of the taxidermist staff of the Museum.

The summer's fishing trip of Mr. Russell J. Coles, of Danville, Virginia, may also be regarded, in a way, as a Museum expedition, for it resulted in the gift to the Museum, by Mr. Coles, of a valuable collection of fishes from the North Carolina coast, including several forms which are exceedingly rare and one (a batoid shark, *Mobula ölfersi*) which was previously known from but two examples.

Among the important exhibits, already installed or in course of installation, may be mentioned the large cub shark and the fourteen-foot saw-fish, referred to above, also a nine-foot sword-

fish, the gift of Mr. George McKesson Brown. Other preparations, including a model of the Japanese frilled shark, *Chlamydoselachus*, and of a tunny are under way and not far from completion.

The identification and cataloguing of recent fishes has made very satisfactory progress and work on the study collections has steadily progressed.

Mr. Nichols has prepared a list of the species of fishes occurring within fifty miles of New York City. This will undoubtedly be of great help in the work of the department in selecting recent fishes to be introduced into the exhibition, and will be invaluable when it becomes possible to have an especial "local" collection.

The unidentified "lantern fishes" in the Museum's collection have been worked up by Professor Charles H. Gilbert of Stanford University, but are not yet published.

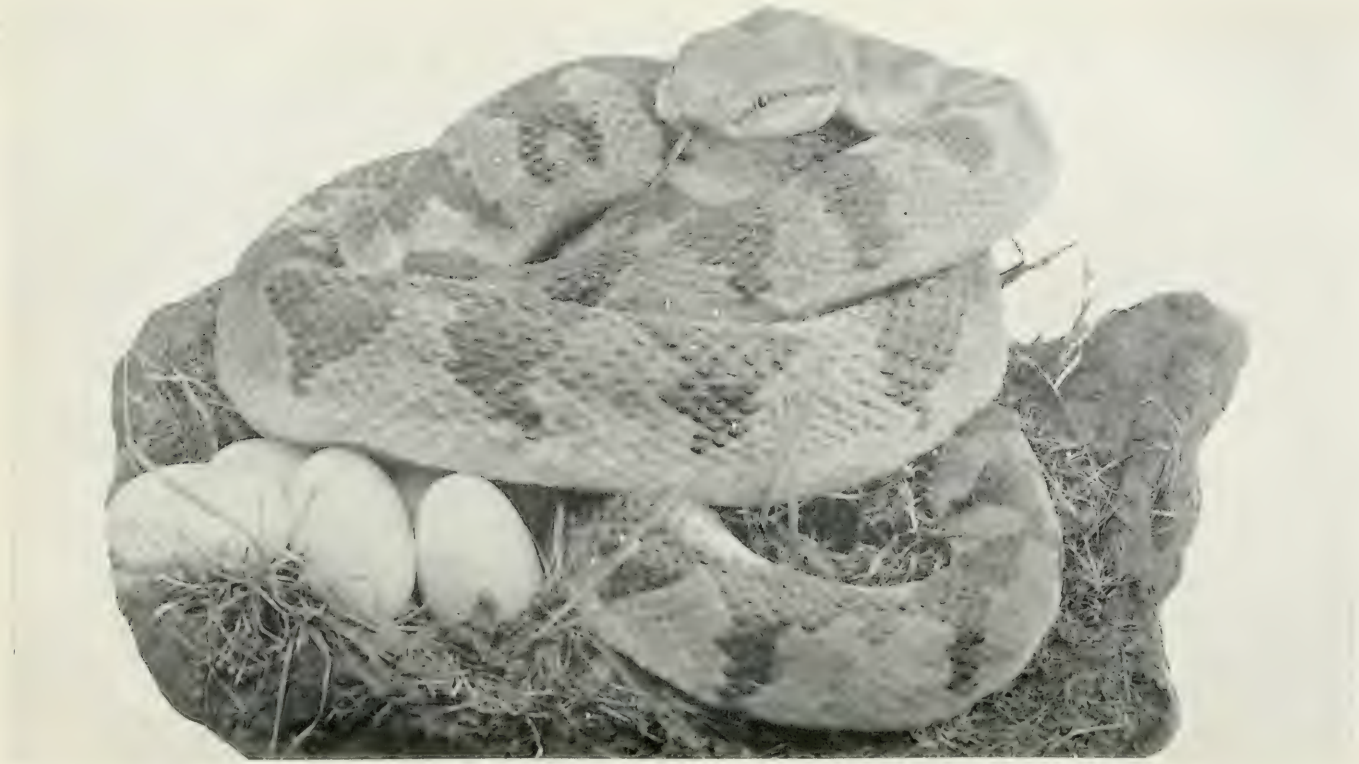
Mr. Nichols has now in hand a collection of mackerel-like fish from Java which he is identifying for the United States National Museum.

Fossil Fishes.—By the aid of the Dodge Fund, the Museum acquired a valuable collection of the primitive fossil fishes, known as Arthrodira, which was brought together in the course of a number of years by Mr. Peter A. Bungart, of Lorain, Ohio. The collection comprises sixty pieces, including several unique specimens of great scientific value.

Dr. Hussakof has devoted a considerable portion of his time during the past year to cataloguing, revising and rearranging the study collection of fossil fishes.

The fishes of the Permian Period and the Silver Sharks (*Chimæroids*) of the Chalk Period, in the Cope collection, have been restudied and the results embodied in two scientific papers, one of which is in press and the other nearly ready for publication.

The fossil fish exhibit has been improved by the addition of several specimens, including a cast of a remarkable "Placoderm" from the Old Red Sandstone of Scotland, *Homosteus milleri;* and its popular interest has been enhanced by the addition of maps and labels. An exhibit to illustrate the



THE "BUSHMASTER." One of the longest and most venomous of the poisonous snakes of the New World, and supposed to be the only species of Crotaline snake that lays eggs. This model was cast in wax by Mr. Dwight Franklin and colored by Mr. Thomas Bleakney from a specimen presented by the New York Zoölogical Park, through the courtesy of Mr. Raymond L. Ditmars

evolution of the lungfishes, to consist of a series of seven models of fishes in bas-relief, is in course of preparation.

Living Reptiles and Batrachians.*—In exhibition work there has been progress on a synoptic series, especially in those directions in which live material could be obtained, and reference must be made to the courteous help of the New York Zoölogical Park and of the New York Aquarium in loans and gifts of such material for color study and casts. In this series emphasis has been put not only on identification and classification, but the representative forms are shown also in action and sometimes in a simple habitat so that additional facts are presented in life history, habit and adaptation to environment.

The preparation of wax casts from plaster moulds, the animals being posed in active positions from life, has been very largely the method of the work, and the results display accurate life form and texture. The final illusion has been given by coloring directly from living animals. That the work has resulted in setting before the visitor to the Museum the beginning of a collection of lifelike amphibia, forms hitherto shown in alcoholic specimens only, and the beginning of a similar series of reptiles, is due largely to the excellent craftsmanship of the preparators, Messrs. Dwight Franklin and Thomas Bleakney, to Mr. F. Blaschke in those cases where the forms were modeled instead of cast directly, and to Mr. G. C. Bell in some dozen cases where complex piece moulds were necessary. The total number of casts and models for the synoptic series, completed or nearly so, is eighty-eight.

There is in preparation also a series of skeletons. These are posed in life positions and show not only osteological facts but also emphasize facts of popular interest, such as the spreading of the ribs to form the hood of the cobra. These skeletons, to the number of eighteen, have been prepared by Mr. Adolph Elwyn of the Department of Physiology.

A series of groups to cover the herpetology of North America, as the Habitat Bird Groups cover the ornithology,

* Report prepared by Mary C. Dickerson, Assistant Curator of Herpetology.

has been planned and work has progressed on three until they will soon be ready to assemble. The total number of casts made for these groups is eighty-seven, making a grand total for the synoptic series and casts of one hundred and seventy-five. The groups are as follows:

First, a group to show some of the common batrachians and reptiles of a summer pond in the coastal region of the northeastern United States, with the bullfrog especially prominent. The plant accessories for this and the other groups under way have been made by Mr. Patch and other assistants in the department of preparation. Fourteen wax casts of bullfrogs are ready to take their places in this setting. They have been cast and colored by Mr. Franklin. They teach as far as possible the general biology of the frog, covering the questions of life in water and air. Painted turtles, adult and young, for this group have been cast by Mr. Franklin and colored by Mr. Bleakney. The second of the groups will present a study of the toads of southern New England in May. Fifteen toads of two species, *Bufo fowleri* and *Bufo americanus*, have been cast in wax by Mr. Franklin and colored by Mr. Bleakney. The positions and activities chosen present forcefully the habits of the toad. Secondary in interest are green frogs, common tree-toads, painted turtles and water-snakes. The third group will show wood frogs, Pickering's hylas, spotted turtles and ribbon-snakes. Fourteen wood frog casts, seven hyla casts and two casts of spotted turtles are completed. In addition to these three groups twenty-four casts are completed as a partial equipment for a southern group.

Research on the relationships of certain specimens of Bufonidæ of the United States and on the ecology, general biology and taxonomy of the Urodela of North America has progressed, though slowly because of the demands of other work.

A short field expedition was made into southern Massachusetts in July for collections and study relating to the bullfrog group. Much material for the accessories was obtained and many photographic studies were made. The field trip planned to South Carolina for work on an alligator group had to be postponed because of pressure of work in other lines.

Work has progressed on a reference catalogue of the collection of amphibia and reptiles which is to be moved into a well-equipped fifth floor room for greater convenience in the work. Negotiations are pending for important exchanges with scientific institutions. Much valuable material has been acquired and catalogued through the generosity of the Cleveland H. Dodge Fund and through other gifts, especially those from the New York Zoölogical Park and the New York Aquarium.

LIVING INVERTEBRATES—DARWIN HALL

HENRY EDWARD CRAMPTON, Curator

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—Substantial progress has been made in all the varied lines of activity in which the department is engaged. The several exhibition halls have been developed, successful field work has been carried on, the study collections have been considerably augmented, while at the same time scientific investigations by members of the staff have been continued with success. Through its recent reorganization the department is now composed of three divisions. The first of these, under the immediate supervision of Mr. Miner, is concerned with the general invertebrate collections, the Darwin Hall and the preparation room. The second, in charge of Curator Gratacap, deals with the collections of molluscs and with the exhibition Hall of Molluscs. The entomological collections as a whole, together with the Hall of Insect Life and of Local Insects, are under the general charge of Dr. Lutz, whose staff of assistants has been materially strengthened by the addition of Mr. Grossbeck, appointed August 1, 1910. Mr. Beutenmüller is in immediate charge of the Lepidoptera.

For the furtherance of his service to the Museum, and also in connection with his own research, during the past summer Curator Crampton visited numerous museums and zoölogical institutions in England, France, Belgium, Holland, Germany, Austria and Italy. Especially profitable was an additional visit to the Oceanographic Museum at Monaco. The present plans for the further development of the department, as regards

explorations and the collection, study and exhibition of invertebrates, consequently have been formulated on the basis of a fuller acquaintance with scientific institutions and scientific men in Europe and America, with museum methods, and with the problems and methods of field exploration.

Invertebrates in General.—The synoptic series in the Darwin Hall has been amplified by a series of nine models and twenty-five alcoholic specimens. The policy of installing biological exhibits like the Cold Spring Harbor Group has been continued and two striking groups are now approaching completion. One of these presents an association of annelid worms as they occur on the shore of Devil's Foot Island, Woods Hole, Massachusetts. The second gives a typical association of submarine animals occurring on the piles of a wharf. Additional groups of a similar nature are projected. The value of such exhibits is realized in their presentation of the biological conditions under which typical invertebrates exist. Of a still more general nature are projected exhibits designed to illustrate variation, heredity, distribution and similar phenomena of evolution.

During the year the study collections of invertebrates have been thoroughly overhauled, reclassified and permanently installed in fireproof cases, the work being completed in the case of six phyla. The remaining groups will be similarly treated during the coming year. The study collections have been increased by numerous gifts as well as by the work of the Museum's collectors. Mr. Miner secured a wide series of invertebrates from the coasts of Massachusetts and Maine. Professor Treadwell obtained a valuable collection of annulates from Dry Tortugas, Florida. Dr. Hussakof and Mr. Franklin collected myriapods, spiders, ants and other forms in the course of their work in Mississippi for the Department of Ichthyology. Dr. Lutz also obtained various invertebrates during his entomological work. The collections of echinoderms, crustaceans and other marine types made by Dr. Crampton in the South Seas have also been incorporated in the study series.

Mr. Miner, assisted by several members of the preparation

COLD SPRING HARBOR GROUP. Invertebrate life of a Long Island shore, as seen at half-ebb tide

room staff, spent over two months in field work on the coasts of Massachusetts and Maine in order to add to our general collections and also to make observations, photographs and drawings of detailed items for use in constructing habitat groups of seashore life for the Darwin Hall.

Dr. Crampton has several publications nearly ready for printing: these are the first instalment of a monograph on "The Distribution and Evolution of Polynesian Snails," a paper on "Natural Selection in Lepidoptera," a book on "The Doctrine of Evolution" (Hewitt Lectures of Columbia University), and a paper on "The Heredity of the Single and Double-brooded Characters in Cynthia." The Catalogue of Spiders by Dr. Petrunkevitch is now in process of printing by the Museum.

Molluscs.—The accessions of principal importance in this division during the past year have been an interesting and useful gift by Mr. A. D. Gabay of a series of polished shells (for the most part of the sea abalone or *Haliotis*), and the purchase of a few land shells from Jamaica and of a group of very beautiful polished pearl-bearing fresh-water clams from the Middle West.

A great deal of time has been expended in making preparations for the occupation of the new Hall of Molluscs, wherein will be more clearly shown and elucidated the habits, biology, evolution and distribution of these most variously conditioned and contrasted animals. Attention may be called to the advantages of devoting a single room to a study storage collection, in which would be contained, as far as possible, a complete systematic series of all the species in the present collection, which is a composite of almost half a dozen large assemblages of shells and in which, indeed, none of the numerous accessions made in the last eight years has been incorporated.

Literary work in the section of Molluscs has been confined to the beginning of a work on the marine shells of the eastern United States.

Hall of Local Insects and Insect Biology.—The most striking feature in the entomological work of 1910 has been

the growth of the Local Collection now under the custody of the New York Entomological Society, due to the continued cordial relations between the Society and the Museum. The accessions by gift to this collection are only an imperfect indication of the work the Society has done, as members have given liberally of their time and experience in naming specimens and working out other scientific problems in connection with the insect fauna of the vicinity of New York City. In addition, it has been the privilege of the Museum to aid in the work of the local entomologists by furnishing a much appreciated "home" on the north side of the exhibition hall and by the loan of literature and specimens for their studies.

The Museum itself has added to the Local Collection from the Newcomb purchase and by numerous field trips within fifty miles of New York City. A valuable supplement to the specimens of local insects is a collection of plants and notes concerning the feeding habits of insects, which has been given by Dr. E. B. Southwick. It is proposed to install this collection in Dr. Lutz's office where it will be available and convenient to any student who wishes to determine what plant it is upon which he has found an insect, what other insects feed upon that plant or what other plants that insect feeds upon. The largest additions to the general insect collection have been the Tower collection of Mexican insects, which is deposited with the Museum, and the Sauter collection from Sumatra. Negotiations have been completed for the purchase of the Williston collection of tropical American Diptera. By securing this collection the Museum will become an important center of dipterology, as it already has many types in this order.

The work of getting the general collection of insects into shape is making definite progress, thanks to the additional assistants who have been available during the past few months. The Hymenoptera, Diptera and Orthoptera have been arranged as far as is profitable in view of the fact that for the most part they are uncatalogued and in great part unidentified; the other orders are not yet arranged even in this preliminary way. About twenty thousand specimens have been catalogued. A large number of identifications has been made, chiefly by outside assistance. This latter task is necessarily slow, as

much of the identified material which we have for comparison has not had the taxonomy brought up to date.

During the summer Dr. Lutz carried on extensive field work in the region around New York City. At a conservative estimate he obtained about twenty thousand insects belonging to at least fifteen hundred species. In this work Dr. Lutz was fortunate in having the cordial coöperation of many noted entomologists, among whom are Messrs. Sleight, Davis, Leng, Love, Pollard, Harris, Schaeffer, Watson and Wintersteiner. The results of this work are of high importance not only for the survey of our surrounding territory but also for the larger problems involving a comparison of the local fauna with insects of other regions of the United States, Mexico, Central and South America.

The development of the Hall of Insect Life and of Local Insects has progressed along the lines laid down last year with extremely satisfactory results. When fully installed, the exhibits in this hall will provide the student with a complete outline of entomology and of insect biology; this cannot fail to be of great service to the public and to the educational system of New York City.

Dr. Lutz has completed a monograph dealing with experimental work upon *Drosophila;* this is now in the hands of the Carnegie Institution for printing. Mr. Beutenmüller has continued his work upon the North American species of insects that produce galls; three papers have been published, and others are in preparation, as well as an extensive monograph on the *Catocala.* Professor Wheeler's splendid work on "Ants" has appeared. This remarkable volume reflects great credit upon the author and also upon the department and the Museum, through his connection with the latter as an Honorary Curator.

GEOLOGY AND EXTINCT INVERTEBRATES

EDMUND OTIS HOVEY, Curator

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—The principal accessions during the past year have been in the line of general and economic geology rather than invertebrate palæontology. Mention should be made of a large

stalagmite and an abundance of other material from the walls of a cave opened in the course of ordinary operations in the Copper Queen Mine, Bisbee, Arizona, during the past summer. The material was collected under the direction of the Curator for the purpose of constructing a cave in the Hall of Geology, and has been presented to the Museum by the Copper Queen Consolidated Mining Company. Other important acquisitions are the Knowles meteorite, a mass of nickel iron 18 inches long and 14 inches high, weighing 355 pounds, from Knowles, Oklahoma, a unique mass found in 1903; a 218-pound mass of the siderolite form of the Brenham meteorite, being the second largest mass of this phase known, and a beautiful slice of El Inca, Peru, an iron meteorite showing excellent Widmanstätten figures.

The Curator spent about a month in the field in Arizona for the purpose of making studies for the preparation of the Copper Queen Mine model, which is to be the gift of Dr. James Douglas. He took with him a map maker, a photographer and a preparator, who spent several weeks gathering the data needed for the construction of the model, in addition to those furnished by the engineering and geological staff of the Copper Queen Consolidated Mining Company.

Some important changes have been made in the arrangement of the material in care of this department. The Ward-Coonley collection of meteorites (which is on loan at the Museum) has been removed from the Hall of Geology and placed in the corridor next west of the foyer. The general Museum collection of meteorites has been transferred from the Department of Mineralogy to this department and has been installed in six metal-framed cases in the foyer. In addition to this we have installed the new Knowles meteorite, the newly acquired mass of the Brenham meteorite and the El Inca meteorite in the foyer. The specimen of El Inca is a polished slab showing the entire section of the meteorite, and it has been mounted in its proper position in a bisected model of the entire mass, forming a noteworthy addition to the series. These changes in installation have brought together in two contiguous rooms the best series of meteorites in this country and one of the best in the world.

A giant specimen of *Inoceramus*, more than four feet across, from the Niobrara Chalk beds of Kansas, has been carefully restored as far as the material permitted and has been placed on exhibition.

The smaller of the two specimens of glacial grooves from Kelly's Island, which were obtained in the fall of 1909 with the aid of the Dr. F. E. Slocum Fund, has been squared up and mounted at the south end of the Hall of Geology.

In the main Hall of Geology, metal-framed cases have been installed, as an experiment with reference to the recasing of the entire hall. On account of the taking of the south central hall of the building (what has been the Mineral Hall for the past ten years) for the exhibition of Quaternary mammals, etc., it has been decided to reverse the arrangement of the specimens in the Hall of Geology and have the historical series begin at the south end instead of the north end as at present. Work upon this change will be begun in January.

The Curator retained the editorship of the *American Museum Journal* through the issue of the May number, and then was relieved of the duty. He was ably assisted in this editorial work by Miss Mary C. Dickerson, who has since been sole editor of the *Journal.*

Changes in the Staff.—On 31 December, 1909, after more than thirty-two years of active service, Professor R. P. Whitfield was retired from the curatorship of this department and made its *Curator Emeritus.* The full care of the department was assigned to the present Curator beginning with 1 January, 1910, although the official appointment was not made until the time of the Annual Meeting of the Board of Trustees. After a lingering illness of several weeks, Professor Whitfield died at Troy, N. Y., on 6 April. He was a remarkable man in many ways. Although he had had practically no school training, his mind was naturally so methodical in its workings, his faculties of observation were so keen and his memory for places, dates and form so retentive that he became one of the foremost palæontologists of his generation and rendered invaluable service to the Museum, par-

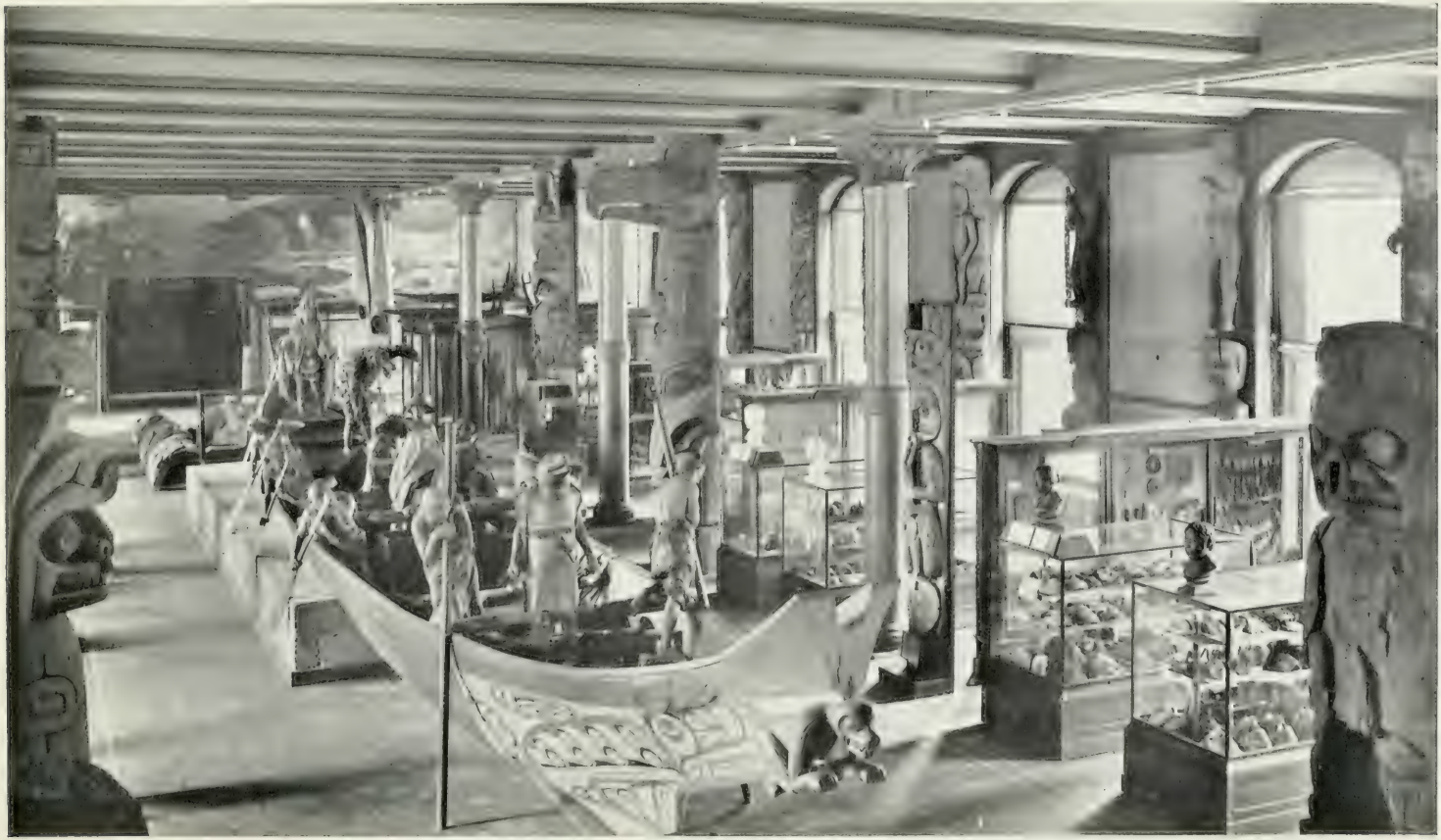
ticularly with reference to the identification, labeling and care of the great Hall collection of fossils. He is greatly missed in the Museum.

LIVING AND EXTINCT RACES OF MEN

CLARK WISSLER, Curator

DEPARTMENT OF ANTHROPOLOGY.—This has been an exceptional year in the acquisition of large and important collections. Mr. J. P. Morgan presented the Lenders collection of costumes and decorated objects from the various Indian tribes in central North America. This is a very complete and extensive collection and especially valuable as an exhibition series for that area. A large collection from the Hopi Indians made by Rev. H. R. Voth was purchased by authorization of the Appointive Committee on Primitive Peoples of the Southwest, of which Mr. Archer M. Huntington is Chairman. This collection contains many of the older and rarer pieces illustrating Hopi ethnology. From Mr. Anson W. Hard was received a large series of Saltillo and Chimayo and other native fabrics from southwestern United States. The pieces from the Chimayo are of the older type, examples of which have not been manufactured for many years, these Indians being now practically extinct. A special collection of Navajo blankets was presented by Mrs. Russell Sage. By purchase was acquired the Starr Congo collection made by Professor Frederick Starr during two years' exploration in Central Africa; the Benedict Bagobo (Philippine) collection made during three years' exploration by Miss Laura E. W. Benedict, and the Tefft American Indian collection presenting a large series of objects, especially from tribes of the Eastern Woodlands, the result of several years' collection and selection by Mr. Erastus T. Tefft.

Among the important collections made by members of our staff are those from the various divisions of the Apache and the Navajo by Associate Curator Goddard; collections illustrating the material culture and arts of the various Rio Grande Pueblo villages by Assistant Curator Spinden; collections from the Papago and other Indian tribes of Arizona by Curator Wissler, all of which were made under a grant from the Committee on Primitive Peoples of the Southwest. In



THE HAIDA CANOE (more than sixty-four feet long) in the North Pacific Hall of The American Museum of Natural History

connection with the systematic work among Indians of the Plains under the direction of the Committee on Indians of the Plains, of which Mr. Archibald Rogers was Chairman, a collection representing the general ethnology of the Crow Indians was brought together by Assistant Curator Lowie; a collection from the Hidatsa and other Village Indians was made by Assistant Curator Lowie and Rev. Gilbert L. Wilson, and a collection illustrating the ceremonies and medicine practices of the Menomini Indians also a special collection from the Seminole Indians of Florida were made by Assistant Skinner.

Under a special grant from the Committee on Primitive Peoples of the Southwest, collection and investigation were carried on among the Apache, Navajo and Pima tribes and the Rio Grande Pueblos. Dr. Goddard spent several months among the several divisions of the Apache, the results of which will appear in a special publication. Dr. Spinden continued the work of last year on material culture among the Rio Grande Pueblos, giving special attention to the historic aspects of the ceramic art. Miss Kissell is visiting the Papago and the Pima tribes of Arizona investigating the textile arts.

Under the general appropriation for North American Research the systematic work of former years was continued among the Northern Plains tribes. Dr. Lowie spent the summer among the Crow and Village Indians, giving special attention to the men's societies. Rev. Gilbert L. Wilson visited the Hidatsa. Mr. Alanson Skinner took up the work of former years among the Menomini, particularly the unusual ritualistic development and medicine practices still extant. Under the direction of the Curator, Mr. D. C. Duvall gathered new data on the ceremonies of the Blackfoot Indians. Dr. J. R. Walker made some progress with the collection of native manuscripts from Dakota Indians.

During the year three new ethnographic halls were added to the general series: one for Africa and two for North America. The African exhibit presents, so far, a representative series from the Congo region. To this will soon be added collections from other parts of the continent. By means of several life-size figures and a series of mural sketches, the

effectiveness and force of this exhibit have been increased. For North America two general culture areas now have fair representation—the North Pacific coast and the Southwest. An entire hall is now given over to the nomadic and sedentary peoples of southwestern United States and northern Mexico; the Emmons and other collections for the tribes of southern Alaska and western British Columbia have been rearranged and provided with new cases; the Hall of Mexican and Central American Archæology has been moved to the second floor. On the fourth floor progress has been made with a hall for the South Sea Islands and another for the Philippines. A series of mural panels for the North Pacific Hall and a number of plaster figures for a canoe group are nearing completion.

The formal statements of research by the staff are published in a special series entitled "Anthropological Papers." During the year the Curator issued "The Material Culture of the Blackfoot Indians," in connection with which there was a general comparative review of corresponding results in our systematic survey of the area. Associate Curator Smith issued an archæological survey of the Yakima Valley, with comparative notes on the whole Columbia region. He also prepared for immediate publication a full report on excavations in north eastern Kentucky, demonstrating the similarity between the aboriginal culture in that part of the State and the so-called Fort Ancient area of Ohio. A number of minor studies, based upon collections received during 1909, was issued under the editorship of Assistant Curator Lowie, among which may be mentioned descriptive notes on the Winnebago and Cherokee (Skinner) and some new points on the Central Eskimo (Waterman). Dr. Aleš Hrdlička of the National Museum made a detailed study of skulls and other parts of skeletons from the Central Eskimo, pointing out some new and significant relationships.

For future publication the Curator completed a manuscript treating of investigations into the social organization of the Blackfoot Indians. Assistant Skinner has ready for publication an ethnological study of the Eastern Cree. Associate Curator Goddard is now engaged on the ethnology of the Apache tribes and Assistant Curator Lowie on the Crow and Village Indians.

PHYSIOLOGY

RALPH W. TOWER, Curator

DEPARTMENT OF PHYSIOLOGY.—Much of the time of the preparator, Mr. Elwyn, has been occupied in completing work which has been requisitioned by other departments. Some time, however, has been devoted to perfecting the device designed to illustrate the mechanism of respiration. The apparatus is composed of an artificial thorax, constructed from glass, and supplied with a rubber diaphragm. Within this thoracic cavity is suspended a lung, so prepared that it has retained its elasticity. By a mechanical device the diaphragm is made to expand and contract, and thus cause the alternate expansion and contraction of the lung as in normal breathing. Another apparatus illustrating the passage of a nerve impulse over a sensory fiber to the brain and return over a motor fiber has been designed; the same device will also show the phenomenon of reflex action.

The preparation of one hundred and thirty-six skeletons and eight hundred and forty-three skulls, large and small, has been completed during the year. Particular attention has been given to the osteological preparation of fishes, amphibians and saurians intended for exhibition by the Department of Ichthyology and Herpetology; in this work the digestion method has proved unusually effective.

The equipment in the preparation room at the present time is quite inadequate, and it is hoped that some change may soon be made to improve these unfavorable conditions.

The department has received in the flesh one hundred and eleven specimens from the Central Park Menagerie, fifty-six from the Zoölogical Society, and nineteen from other sources, making a total of one hundred and eighty-six animals.

PUBLIC HEALTH

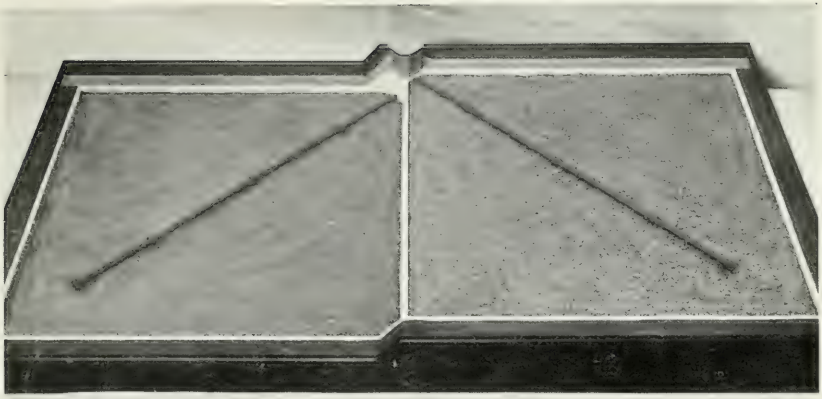
CHARLES-EDWARD AMORY WINSLOW, Curator

DEPARTMENT OF PUBLIC HEALTH.—The widespread interest in the Tuberculosis Exhibit, which was held at the Museum in 1908-1909 with an attendance of more than a million, demon-

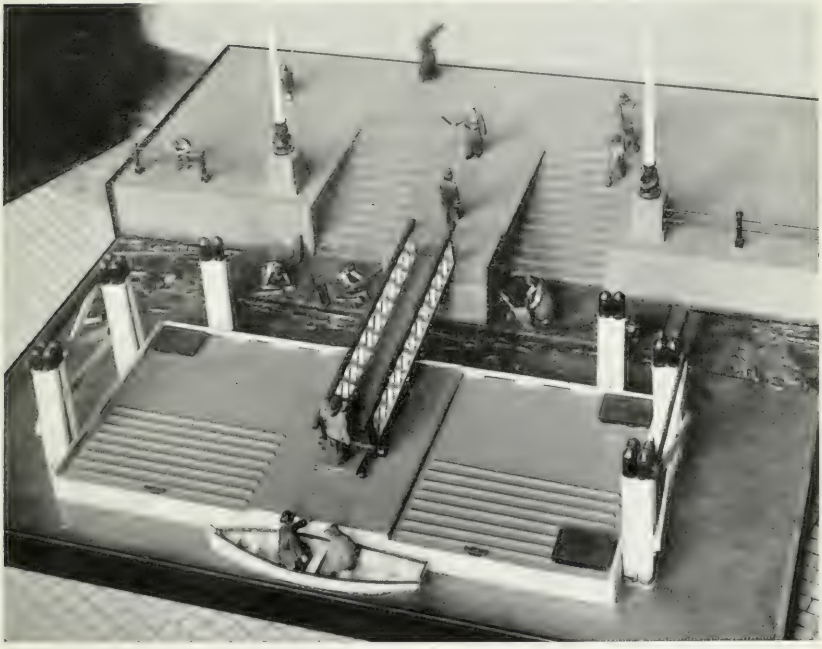
strated the practicability of having a department in the Museum which should have for its function the presentation of matters pertaining to public health. Primarily, it was the popularity of the Tuberculosis Exhibit, combined with the increased public attention which is being given to sanitation, water supply and other municipal problems of this nature, which induced the Trustees to establish a Department of Public Health in the Museum.

The work of this department began the first of September, 1910. A bacteriological laboratory has been equipped with facilities for keeping under cultivation living bacterial species in what might be termed a "museum collection." This is the first attempt in this country to standardize these forms of life through museum methods. Arrangements have been made with the leading laboratories in New York, Chicago, Baltimore, Washington and Boston for obtaining specimens of the organisms in their possession. The department will act as a central bureau for the preservation of cultures of pathogenic and non-pathogenic bacteria (particularly of types of new forms and varieties), and for their distribution to corresponding laboratories and schools and other institutions which may desire them.

The principal work of the department since its institution has been devoted to the preparation of an exhibit of sewage disposal models, to illustrate present conditions in regard to the pollution of the harbor waters of New York and the methods available for the safe and inoffensive disposal of city waste. This subject was selected because the Metropolitan Sewerage Commission of New York was to make an exhibit at the Museum this winter, and it was felt that the department could do a useful work in supplementing the charts of the Commission with graphic models. The fourteen models which have been prepared form a fairly complete presentation of the most important aspects of the subject, and constitute a suitable nucleus for a permanent Museum exhibit on the subject of sewage disposal. A *Guide Leaflet* has been prepared in connection with this exhibit, which it is hoped may be of service in elucidating the principles underlying the task of the protection of river and harbor waters.



Double Contact Beds for the Purification of Sewage
Model in The American Museum of Natural History



Picking up Polluted Driftwood on the Steps at Battery Park
Model in The American Museum of Natural History

To coöperate with the Curator, President Osborn has invited the following well-known scientific men to serve as an Appointive Committee for 1911:

Dr. Simon Flexner, Director of the Rockefeller Institute of Medical Research.

Mr. John M. Glenn, Director of the Sage Foundation.

Mr. J. Waldo Smith, Chief Engineer of the Board of Water Supply.

WOODS AND FORESTRY

Mary C. Dickerson, In Charge

Work has progressed in the arrangement of the trees of the Jesup Collection in natural groups or families with the specimens of market value made prominent in these groups, also on the work on wax models of leaves, flowers and fruits, and on comprehensive descriptive labels. The department has extended its services to many commercial and private interests in and about New York City for identification of woods, and to high schools in the formation of outlines for study of the trees in the Jesup Collection.

Through the courtesy of the United States Forest Service, Doubleday, Page & Company, and the J. Horace McFarland Company, collections of valuable tree and forest photographs have been obtained to be used in the Forestry Hall for sepia enlargements and colored transparencies. Plans are in hand for increasing the usefulness of the hall at this time when forestry is to all people a question of national importance, by adding correlated exhibits in the alcoves between the cases of the Jesup Collection. These will illustrate forest conservation with effects on soil erosion and soil fertility, practical work in growing trees, as well as the value of trees for public health—thus embodying the original interests of Mr. Jesup.

The department has in press a *Guide Leaflet, Trees and Forestry*, to accompany the Jesup Collection. It presents the status of the forest conservation question in 1910, gives elementary facts concerning the life and structure of a tree,

the structure of wood and the growth of trees, everywhere putting emphasis on the market woods. It has also a chapter on the identification of trees in winter.

In addition to regular departmental work, the associate editorship of the *American Museum Journal* and *Guide Leaflets* was carried until June, when the editorship was assumed.

THE LIBRARY

RALPH W. TOWER, Curator

DEPARTMENT OF BOOKS AND PUBLICATIONS.—To establish a library of natural history was one of the chief concerns of the founders of this Museum and accordingly provision therefor was included in the contract of 1877 with the City. During the first thirty years the library did not grow apace with other departments of the institution. It is true that during this period many and valuable private collections were presented to it, but apparently no sustained effort was made to combine them into a practical unit either by revision or accession. During the last decade enthusiasm has increased, several scientific societies have deposited their books in our custody, and altogether a serious attempt has been made to make this library one of the most comprehensive and complete of its kind in the country.

The present library represents the collections of the New York Academy of Sciences, The New York Microscopical Society, The Linnæan Society of New York, The American Ethnological Society and The American Museum of Natural History, which total in scientific works some 40,000 volumes and 20,000 pamphlets. It is important to note here that each pamphlet is bound, indexed and takes its place on the shelf together with the other volumes, thus becoming an accessible and efficient work of reference.

The assembling under one roof of the libraries of these scientific institutions has secured a very important and valuable series of the publications of the learned societies of the world, a collection which is rapidly gaining a leading position in America. This section of the library is maintained primarily by exchange and much has been accomplished during the

last five years in perfecting the incomplete files; this success is due in equal measure to the diligence of the Assistant Librarian and to the favor with which most of the foreign institutions receive our requests. The needs in this branch of the library are confined in the most part to the volumes of the early years, dating in many instances to the eighteenth century, which can be obtained only by purchase.

The most pressing need undoubtedly is the addition of numerous standard works in natural history, which are important to both the student and the general reader. There is no department in the Museum that is not handicapped by the lack of these works, most of which are out of print and can be purchased only as they happen to appear in the foreign markets. The appropriation of special funds for the purchase of these classics is urgently requested, since each year makes them more scarce with the consequent rise in value; for this reason such accessions must be considered one of the very best assets of the Museum.

The shelf-room of the library has been overcrowded for many months, and it is a delight to report that more space, continuous with the present stack-room, has been planned for immediate use. Another welcome addition is the proposed Faculty Room, where all the new natural history literature can be placed for the use of the various Curators. To equip a reading room with all the popular and non-technical books relating to natural history, open at all times to the visitor, is a project which the Curator has contemplated for several years. The expense of such an undertaking would not be burdensome, but the equipment should be placed on one of the exhibition floors where it would be readily accessible. It is believed that such a room would be much used and of important educational value.

During the year important gifts have been made to the library, the most noteworthy of which were contributed by Professor J. J. Stevenson, Professor Henry Fairfield Osborn, Mr. William G. DeWitt, Mrs. C. L. Weeks, and particularly Mr. Cleveland H. Dodge, who has supplied all of the publications of the Carnegie Institution pertinent to our subject. For these and all other gifts the library is greatly indebted.

PUBLICATIONS

J. A. Allen, Editor

The current publications of The American Museum of Natural History consist of the *Annual Report*, the *Bulletin*, the *Memoirs*, the *Anthropological Papers* and the *American Museum Journal.*

The *Bulletin* is a strictly scientific publication in which are published the shorter articles embodying the results of the research work of the various departments of the Museum. The papers composing it are less voluminous and of more general interest than those which appear in the *Memoirs.* The *Bulletin* was founded in 1881, and twenty-eight volumes have been issued.

The *Memoirs*, like the *Bulletin*, are strictly scientific, but are devoted to special articles requiring more exhaustive treatment. They have been published at irregular intervals since 1893. Ten complete volumes and parts of four others have been issued.

The *Anthropological Papers* are similar in character to the *Bulletin*, but are devoted exclusively to the results of field work and other research conducted by the anthropological staff of the Museum. The publication of these papers was commenced in 1907, six volumes having been issued up to the present time.

The *American Museum Journal* is a popular record of the progress of the Museum, and was first published in 1900. It is now in its eleventh volume.

Complete sets of the *Bulletin* and of the *Memoirs*, bound or unbound, may be procured by addressing the Librarian. A standard cloth binding has been adopted for those desiring the publications in this form. No complete set of the *Journals* can be furnished.

The publications of the present year include Volumes XXVII and XXVIII of the *Bulletin*, Volumes IV, V and VI of the *Anthropological Papers*, Volume X of the *Journal*, and Part 1 of Volume XII and Part 1 of Volume XIII of the

Memoirs. The total amount expended on publications for the year was $13,769.06.

The publications by departments are as follows:

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

James A. G. Rehn. "On some Orthoptera from Porto Rico, Culebra and Vieques Islands." *Bull.* XXVIII, pp. 73–77, 1 text fig.

Charles T. Brues. "Some Parasitic Hymenoptera from Vera Cruz, Mexico," *Bull.* XXVIII, pp. 79–85, 1 text fig.

William Beutenmüller, "The North American Species of *Neuroterus* and their Galls." *Bull.* XXVIII, pp. 117–136, pls. viii–xiii.

William Beutenmüller. "The North American Species of *Aylex* and their Galls." *Bull.* XXVIII, pp. 137–144, pl. xiv.

William Beutenmüller. "The North American Species of *Aulacidea* and their Galls." *Bull.* XXVIII, pp. 253–258, pls. xxiv–xxvi.

William Morton Wheeler. "Three new Genera of Myrmicine Ants from Tropical America." *Bull.* XXVIII, pp. 259–265, 3 text figs.

T. D. A. Cockerell. "Fossil Insects and a Crustacean from Florissant, Colorado." *Bull.* XXVIII, pp. 275–288, 4 text figs.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

J. A. Allen. "The Black Bear of Labrador." *Bull.* XXVIII, pp. 1–6.

J. A. Allen. "Mammals from the Athabaska-Mackenzie Region of Canada." *Bull.* XXVIII, pp.7–11.

J. A. Allen. "Mammals from Palawan Island, Philippine Islands." *Bull.* XXVIII, pp. 13–17.

J. A. Allen. "Additional Mammals from Nicaragua." *Bull.* XXVIII, pp. 87–115.

J. A. Allen. "Mammals from the Caura District of Venezuela, with Description of a new Species of *Chrotopterus*." *Bull.* XXVIII, pp. 145–149.

J. A. Allen. "Collation of Brisson's Genera of Birds with those of Linnæus." *Bull.* XXVIII, pp. 317–335.

D. G. Elliot. "On the Genus *Presbytis*, and 'Le Tarsier' Buffon, with Descriptions of two new species of *Tarsius*." *Bull.* XXVIII, pp. 151–154.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

William K. Gregory. "The Orders of Mammals." *Bull.* XXVII, pp. 1–525, 32 text figs.

Frederick W. True. "Description of a Skull and some Vertebræ of the Fossil Cetacean *Diochotichus vanbenedeni* from Santa Cruz, Patagonia." *Bull.* XXVIII, pp. 19–32, pls. i–v.

W. D. Matthew. "On a Skull of *Apternodus* and the Skeleton of a new Artiodactyl." *Bull.* XXVIII, pp, 33–42, pl. vi, 5 text figs.

W. D. Matthew. "On the Osteology and Relationships of *Paramys*, and the Affinities of the Ischyromyidæ." *Bull.* XXVIII, pp. 43–72, 19 text figs.

W. D. Matthew. "The Phylogeny of the Felidæ." *Bull.* XXVIII, pp. 289–316, 15 text figs.

John Treadwell Nichols. "A Note on *Siphostoma pelagicum* (Osbeck)." *Bull.* XXVIII, pp. 155–157, 1 text fig.

John Treadwell Nichols. "A Note on the Identity of *Caranx forsteri* Cuvier and Valenciennes." *Bull.* XXVIII, p. 159.

John Treadwell Nichols. "On two new Blennys from Florida." *Bull.* XXVIII, p. 161.

E. C. Case. "New or little known Reptiles and Amphibians from the Permian(?) of Texas." *Bull.* XXVIII, pp. 163–181, 10 text figs.

E. C. Case. "The Skeleton of *Pœcilospondylus francisi*, a new Genus and Species of Pelycosauria." *Bull.* XXVIII, pp. 183–188, 3 text figs.

E. C. Case. "Description of a Skeleton of *Dimetrodon incisivus* Cope." *Bull.* XXVIII, 189–196, pls. xv–xix, 5 text figs.

R. Broom. "A Comparison of the Permian Reptiles of North America with those of South Africa." *Bull.* XXVIII, pp. 197–234, 20 text figs.

Walter Granger. "Tertiary Faunal Horizons in the Wind River Basin, Wyoming, with Descriptions of new Eocene Mammals." *Bull.* XXVIII, pp. 235–254, pls. xx–xxiii, 6 text figs.

Barnum Brown. "The Cretaceous Ojo Alamo Beds of New Mexico, with Description of the new Dinosaur Genus *Kritosaurus*." *Bull.* XXVIII, pp. 267–274, pls. xxvii–xxix, 7 text figs.

Russell J. Coles. "Observations on the Habits and Distribution of certain Fishes taken on the Coast of South Carolina." *Bull.* XXVIII, pp, 337–348.

DEPARTMENT OF ANTHROPOLOGY[1]

Robert H. Lowie. "The Assiniboine." *Anthrop. Papers*, IV, pp. 1–270, pls. i–iii, 17 text figs.

Robert H. Lowie (editor). "Notes concerning new Collections." *Anthrop. Papers*, IV, pp. 271–337, pls. iv–viii, 42 text figs. Contributors: Robert H. Lowie, Alanson Skinner, C. W. Mead, Harlan I. Smith, T. T. Waterman, William C. Orchard.

Clark Wissler. "Material Culture of the Blackfoot Indians." *Anthrop. Papers*, V, pp. 1–175, pls. i–viii, 103 text figs.

Aleš Hrdlička. "Contributions to the Anthropology of Central and Smith Sound Eskimo." *Anthrop. Papers*, V, pp. 177–242, pls. ix–xxii, 2 text figs.

Harlan I. Smith. "Archæology of the Yakima Valley." *Anthrop. Papers*, VI, pp. 1–171, pls. i–xvi, 129 text figs.

[1] The *Anthropological Papers* are edited by the Curator of the Department of Anthropology, Dr. Clark Wissler.

Harlan I. Smith. "The Prehistoric Ethnology of a Kentucky Site." *Anthrop. Papers*, VI, pp. 173–235, pls. xvii–lxiv, 1 text fig.

Waldemar Bogoras. "Chukchee Mythology." *Mem.* XII, pp. 1–197.

Waldemar Jochelson. "The Yukaghir and the Yukaghirized Tungus." *Mem.* XIII, pp. 1–133, pls. i–vii, 1 map.

II. MEMBERSHIP

GEORGE H. SHERWOOD, Assistant Secretary

The steadily increasing number of Members of the Museum is an index of the spreading interest in the development of the institution, and the contribution of Members is an important item of income.

Members enjoy many privileges which cannot be readily granted to non-subscribers. Among these are the series of special lectures, admission to the laboratories and work-rooms, where may be seen the methods used in mounting material for exhibition, and the service of an instructor when Members and their friends visit the Museum. Recently a room for the use and comfort of Members has been set aside and will be equipped and furnished during the coming year.

We believe, however, that those who, as Members, subscribe to the Museum are actuated not by the returns which they receive from their subscription, but by their civic pride in an institution which they consider is doing an important educational work and is worthy of support.

Continuous efforts are being made to increase the membership and any assistance from Members by the nomination of their friends will be greatly appreciated.

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

The new Members number 235, and as the loss through death and resignation is 142, the net gain is 93.

On December 31, 1910, the total membership was 2,456, divided into classes as follows: Patrons, 108; Fellows, 40; Honorary Fellows, 2; Life Members, 469; Sustaining Members, 29; Annual Members, 1,808.

New Members

The following persons were elected Patrons:

Henry C. Frick
Princess Vilma Lwoff-Parlaghy
Ogden Mills
Mrs. Russell Sage
Mrs. John B. Trevor
Felix M. Warburg
George W. Wickersham

The following persons were elected Life Members:

F. Lothrop Ames
Larz Anderson
Allison V. Armour
Benjamin Walworth Arnold
Geo. F. Baker, Jr.
Lynford Biddle
W. Lyman Biddle
Miss Elizabeth Billings
J. Insley Blair
Dickson Q. Brown
Richard M. Colgate
C. Forster Cooper
Marcellus Hartley Dodge
A. Radclyffe Dugmore
Arthur D. Gabay
Chas. W. Harkness
George T. Howland, M.D.
John Sherman Hoyt
Theodore R. Hoyt
Gen. Thomas H. Hubbard
Richard S. Hungerford
Frederic H. Kennard
D. P. Kingsley
Stanton D. Kirkham
William Adams Kissam
Edward de P. Livingston
Frederic A. Lucas
George Grant Mason
John G. McCullough
Moses Charles Migel
Alfred H. Mulliken
Nathaniel Cushing Nash
De Lancey Nicoll
T. B. Parker
Mrs. Anne W. Penfield
Capt. John J. Phelps
George B. Post, Jr.
Henry H. Rogers
Schuyler Schieffelin
R. A. C. Smith
Col. Robert M. Thompson
H. M. Tilford
William Perkins Wadsworth
Henry Walters
Mrs. Felix M. Warburg
Paul M. Warburg
Mrs. Paul M. Warburg
Mrs. William Seward Webb
Alfred Rutgers Whitney, Jr.

The following persons have become Sustaining Members:

Fritz Achelis
Mrs. Benjamin Brewster
R. R. Colgate
Charles de Rham
J. B. Greenhut
Alfred E. Marling
James Marwick
John G. Milburn
Mrs. C. M. Pratt
D. Schnakenberg
Frederic S. Wells
Ralph Wurts-Dundas

DECEASED MEMBERS AND CURATORS

It is with a profound sense of our loss that we announce the death of the following Members and Curators during the year 1910:

Patrons

RICHARD T. WILSON

Fellows

H. MCK. TWOMBLY

Life Members

JOHN E. ALEXANDRE SETH BARTON FRENCH

Curators

ROBERT PARR WHITFIELD

The following is the Minute which was adopted at the meeting of the Executive Committee of the Board of Trustees on April 27, 1910:

RESOLVED, That the Trustees record with deep sorrow the death of

ROBERT PARR WHITFIELD,

Curator Emeritus of the Department of Geology and Invertebrate Palæontology, who died on April 6, 1910. Professor Whitfield was appointed Curator of Geology in 1877 and for more than thirty-two years rendered to the Museum faithful and efficient service. He was a recognized authority in his chosen field of science, and for nearly half a century had no superior in this country in the identification of fragmentary invertebrate fossils.

He was singularly devoted to the interests of the Museum and with untiring energy labored to build up the collections under his care. He was a strong advocate of a medium of publication and it was largely through his influence that President Jesup established the Museum *Bulletin* in 1881, to which Professor Whitfield was a frequent contributor.

The Trustees extend to Professor Whitfield's family their deepest sympathy and desire to record their esteem for one who has been so intimately associated with the development of this institution.

III.—FINANCES, MAINTENANCE, ENDOWMENT

As has been the custom for several years, 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. The details of the receipts and disbursements thus classified will be found in the Treasurer's Report, pages 65 to 75, inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York.

The Treasurer's report is different in form from previous reports in that the net expenditures for the several departments are shown in each account. Formerly the gross expenditures only were given. Under the heading "reimbursements," on the disbursement side of the accounts, will be found the amounts which must be added to the net expenditures of any department to make the gross expenditures of that department.

The following summary will show the general receipts and disbursements for the past ten years:

SUMMARY OF ANNUAL EXPENDITURES FOR ALL PURPOSES, EXCLUSIVE OF SPECIAL FUNDS, 1901-1910

1901	$203,811.27
1902	219,787.14
1903	228,508.78
1904	235,041.33
1905	233,885.23
1906	239,597.39
1907	250,779.96
1908	275,419.07
1909	323,369.89
1910	314,879.69
	$2,525,079.75

SUMMARY OF TOTAL EXPENDITURES IN TEN YEARS, 1901-1910

Total appropriation by City for Maintenance (10 years)	$1,625,687.62
Total appropriation by Trustees for Maintenance, Collections, etc. (10 years)	1,300,813.05
Estimated value of Collections donated during past 10 years	2,000,000.00

CITY MAINTENANCE ACCOUNT.—The appropriation by the City in 1910 for this purpose was $185,757. This sum, however, as in previous years, has been quite inadequate to meet the cost of maintaining the Museum, and the Trustees have drawn on their other funds to the extent of $43,502.38 to meet expenses which are properly chargeable to the City funds. Such disbursements, however, have been made directly from the

General Account. The City Maintenance Account, therefore, while it shows all of the moneys received from the City, does not show the entire cost of maintenance.

The moneys appropriated by the City for maintenance of the Museum are received and disbursed independently of all other income. Thus the Trustees are in a position to give a strict account of the funds received from the City at any time that it may be desired, and an examination of this account by the City officials is always welcomed. It is obvious that as the successive additions are made to the building and as the older portions of the building deteriorate, larger sums will be required for maintenance.

Trustees General Account.—The growth of the Museum is dependent on the receipts in the General and Special Funds Accounts. The net receipts in the General Account for the year have been $157,547.78, a sum $3,529.27 larger than last year's receipts. The principal items of income have been as follows:

Interest on General Endowment Fund	$57,192.50
Interest on Morris K. Jesup Fund	52,072.11
Life Members	4,700.00
Annual and Sustaining Members	18,515.00
Special Contributions of Trustees and others	4,100.00
Supplementary income from Special Funds	9,000.00
Refund in settlement of gas bills	1,269.95

In 1909 the Consolidated Gas Company agreed to accept payment on Museum bills at 75 cents per 1,000 rate, and accordingly a check for $1,269.95 was drawn and delivered to the Gas Company. The City finally issued special revenue bonds and settled all gas bills, including those of the Museum. The Gas Company thereupon returned the Museum's check for $1,269.95, which was deposited to the credit of the General Account.

Morris K. Jesup Fund

The expenditures of the income from the Morris K. Jesup Fund have been made with due regard to Mr. Jesup's wishes, as given in the terms of his bequest. This money has been specifically applied as follows:

To the purchase of specimens and collections for practically all the departments of the Museum
To the support of field parties:
To Japan for whales
To South America for mammals and birds
To Montana, Wyoming and South Africa for fossils
To Wisconsin, Montana, Florida and the Arctic for work among the Menomini, Crow, Blackfoot, Seminole, Hidatsa and Eskimo
To Woods Hole, Mass., for marine habitat groups, and the vicinity of New York for local insect collections
To mural paintings for the Northwest Coast Hall
To books for the library
To scientific publications of the Museum

Trustees Special Funds Account.—The total net contributions to this account during the year have been $71,407.32, the largest sum in recent years. It frequently occurs that valuable collections, which it is very desirable that the Museum should acquire, are offered for sale when it is impossible to purchase them from the regular income; or, there may be some special exploration which should be undertaken immediately. It is then that some patron or group of patrons is sought who will contribute funds for this special purpose and the responses have been most generous. Very important is the part that this supplementary income has played in the development of the Museum. Without such support the Habitat Bird Groups would not have been possible, the Congo Expedition would have been postponed indefinitely, and numerous invaluable collections would have been lost to the Museum.

Trustees Permanent Endowment Account.—The total endowment at the close of 1910 was $2,340,365.49. The Permanent Endowment has been increased by three substantial contributions. Mrs. John B. Trevor has contributed $5,000. From the estate of Darius Ogden Mills $100,000 has been received. From the estate of Phebe Anna Thorne the Museum has received $25,000, to be known as the Jonathan Thorne Memorial Fund, the income from which is to be applied to the development of a Room for the Blind.

Respectfully submitted,

Henry Fairfield Osborn
President

February 13, 1911

Financial Statement
1910

*PERMANENT ENDOWMENT**

Morris K. Jesup Fund	$1,146,600 00	
General Endowment Fund	1,114,750 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	
Jonathan Thorne Memorial Fund	26,000 00	
		$2,338,350 00
Uninvested Cash :		
Morris K. Jesup Fund		241 19
General Endowment Fund		954 30
Jonathan Thorne Memorial Fund		820 00
		$2,340,365 49

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

CITY MAINTENANCE ACCOUNT

RECEIPTS

1910

Capital Fund, cash on hand January 1, 1910.....		$12,950 88	
Department of Parks:			
Account of 1909:			
Telephone, Rental of.....	$247 31		
General Supplies.....	923 26		
Fuel.....	847 97		
Contingencies.....	30 58		
		2,049 12	
			$15,000 00
Department of Parks:			
Appropriation for 1910:			
Salaries and Wages.....		156,500 00	
Telephone, Rental of.....	486 48		
Bills awaiting reimbursement	93 52		
		580 00	
General Supplies.....	9,931 85		
Bills awaiting reimbursement	237 15		
		10,169 00	
Materials for Repairs and Replacements by Departmental Labor.....	6,058 17		
Bills awaiting reimbursement	441 83		
		6,500 00	
Repairs and Replacements by Contract or Open Order.....	534 00		
Bills awaiting reimbursement	216 00		
		750 00	
Maintenance of Automobile, including equipment, care and storage of same.....	446 95		
Bills awaiting reimbursement	3 05		
		450 00	
Purchase of Furniture and Fittings.....	621 97		
Bills awaiting reimbursement	228 03		
		850 00	
Fuel.....	5,907 22		
Bills awaiting reimbursement	2,592 78		
		8,500 00	
Contingencies.....		1,458 00	
Total net receipts for the maintenance of all departments....			**185,757 00**
Interest on Credit Balances.....			109 00
Loans.....			4,500 00
			$205,366 00

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

*CITY MAINTENANCE ACCOUNT**

DISBURSEMENTS

1910

Geology and Invertebrate Palæontology	$3,844 58	
Mineralogy	2,847 80	
Mammalogy and Ornithology	4,701 05	
Vertebrate Palæontology	10,011 06	
Anthropology	9,352 89	
Invertebrate Zoölogy	8,853 69	
Ichthyology and Herpetology	3,946 75	
Physiology	1,236 55	
Public Health	738 44	
Woods and Forestry	573 64	
Library	9,634 89	
Public Education	4,345 52	
Preparation and Exhibition	6,837 41	
Heating and Lighting	22,899 23	
Repairs and Installation	18,688 81	
General Supplies and Expenses	9,182 09	
Administration	68,062 60	
Total net disbursements for the maintenance of all departments		**$185,757 00**
Interest on Credit Balances transferred to General Account		109 00
Loans		4,500 00
Capital Fund:		
Cash on hand December 31, 1910	11,187 37	
Bills awaiting reimbursement from Department of Parks, December 31, 1910	3,812 63	
		15,000 00
		$205,366 00

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1910*

*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.

GENERAL ACCOUNT

RECEIPTS

1910

Temporary Working Fund Capital		$900 00
Cash on hand January 1, 1910	$5,648 62	
Interest on General Endowment Fund	57,192 50	
Interest on Morris K. Jesup Fund	50,711 00	
Interest on Morris K. Jesup Fund:		
Accrued Interest on Bonds at time of sale transferred from Investment Fund of Special Funds Account	1,361 11	
Interest on Credit Balances	1,162 35	
Life Members	4,700 00	
Annual Members	17,840 00	
Sustaining Members	675 00	
Sale of Publications	542 30	
Sales and Exchanges	3,344 95	
Special Contributions:		
Percy R. Pyne	2,000 00	
Ogden Mills	2,000 00	
Jacob Langeloth	100 00	
Special Funds for General Receipts:		
Vertebrate Palæontology Field Funds	2,000 00	
Antarctic Exploration Fund	5,000 00	
Reserve Fund	2,000 00	
Refund to General Receipts, Adjustment of Gas Bills	1,269 95	
Total net receipts for the development of all departments		157,547 78
Reimbursements:		
Special Funds Transfers:		
Charles E. Slocum Fund	100 00	
Horse Exploration Fund	200 00	
Primitive Peoples of Southwest Fund	2,000 00	
Lenders Collection Costumes Plains Indians	15,000 00	
Indian Blanket Fund	576 44	
Jonathan Thorne Memorial Fund	456 44	
Antarctic Exploration Fund	500 00	
General Account:		
Unexpended Field Balances, General Items	2,028 39	
City Maintenance Account:		
For payment of bills temporarily charged to General Account pending transfers	2,061 76	
		22,923 03
Patrons:		
George W. Wickersham	1,000 00	
Henry C. Frick	1,000 00	
		2,000 00
Loans		8,500 00
		$191,870 81

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

*GENERAL ACCOUNT**

DISBURSEMENTS

1910

Geology and Invertebrate Palæontology	$4,440 50	
Mineralogy	398 12	
Mammalogy and Ornithology	11,528 04	
Vertebrate Palæontology	13,497 34	
Professor Osborn's Research and Publication Fund	4,774 09	
Anthropology	23,322 19	
Invertebrate Zoölogy	7,218 37	
Ichthyology and Herpetology	1,819 69	
Physiology	1,263 92	
Public Health	665 12	
Woods and Forestry	717 14	
Library	6,527 89	
Publications	12,460 51	
Public Education	5,822 22	
Preparation and Exhibition	11,432 20	
Heating and Lighting	668 12	
Repairs and Installation	3,368 66	
General Supplies	10,801 76	
Administration	7,731 58	
Sales and Exchanges	88 00	
Interest on Overdrafts	577 23	
Total net disbursements for the development of all departments		$129,122 69
Reimbursements which have been deducted from gross expenditures of the following departments:		
Geology	$451 41	
Mammalogy	218 46	
Vertebrate Palæontology	216 80	
Anthropology	17,843 70	
Invertebrate Zoölogy	31 86	
Ichthyology and Herpetology	4 40	
Physiology	1 90	
Library	22 50	
Public Education	456 44	
Preparation and Exhibition	509 49	
Repairs and Installation	1,715 42	
General Supplies and Expenses	1,450 65	22,923 03
Patrons:		
Transferred to Investment Fund, Special Funds Account		2,000 00
Interest on General Endowment Fund:		
Accrued interest on Bonds at time of purchase transferred to Investment Fund of Special Funds Account		2,623 61
Interest on Morris K. Jesup Fund:		
Accrued interest on Bonds at time of purchase transferred to Investment Fund of Special Funds Account		12,447 37
Loans		8,500 00
Cash on hand December 31, 1910		13,354 11
Temporary Working Fund Capital		900 00
		$191,870 81

[E. & O. E.] CHARLES LANIER, *Treasurer*

NEW YORK, *December 31, 1910*

* 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.

SPECIAL FUNDS ACCOUNT

RECEIPTS

1910

GEOLOGY:			
PEARY METEORITES:			
Mrs. Morris K. Jesup		$10,958 33	
CHARLES E. SLOCUM FUND		100 00	
			$11,058 33
MINERALOGY:			
MATILDA W. BRUCE FUND:			
Interest			605 00
MAMMALOGY AND ORNITHOLOGY:			
NORTH AMERICAN ORNITHOLOGY FUND, SERIES 1:			
Balance		58 70	
NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:			
Balance	$1,828 94		
John L. Cadwalader	250 00		
Mrs. Morris K. Jesup	250 00		
Miss Caroline Morgan	250 00		
Henry Clay Pierce	500 00		
F. Aug. Schermerhorn	500 00		
Mrs. Harriet L. Schuyler	250 00		
Mrs. John B. Trevor	250 00		
Mrs. Robert L. Winthrop	250 00		
Reserve Fund:			
Transfer subscription of Mrs. Louisine W. Havemeyer	250 00		
		4,578 94	
MRS. FRANK K. STURGIS FUND:			
Balance		63 78	
CONGO EXPEDITION FUND:			
Balance	699 52		
A. D. Juilliard	1,000 00		
Charles Lanier	1,000 00		
J. Pierpont Morgan, Jr.	1,000 00		
William Rockefeller	2,000 00		
John B. Trevor	2,500 00		
W. K. Vanderbilt	1,000 00		
Reserve Fund:			
Transfer subscription of Cleveland H. Dodge	1,000 00		
		10,199 52	
CRANDALL OÖLOGICAL FUND:			
Balance	885 00		
Alfred N. Beadleston	25 00		
George J. Gould	50 00		
John S. Huyler	25 00		
William Church Osborn	50 00		
W. H. Wolverton	25 00		
Mrs. Anna Woerishoffer	100 00		
		1,160 00	
			16,060 94
Carried forward			$27,724 27

*SPECIAL FUNDS ACCOUNT**

DISBURSEMENTS

1910

GEOLOGY:		
PEARY METEORITES:		
Purchase of Peary Meteorites, 2d payment..	$10,583 33	
CHARLES E. SLOCUM FUND:		
Transferred to Geology, General Account, for expenses of Glacial Grooves Exhibit.	100 00	$10,683 33
MINERALOGY:		
MATILDA W. BRUCE FUND:		
Purchase of Mineral Specimens.....		605 00
MAMMALOGY AND ORNITHOLOGY:		
NORTH AMERICAN ORNITHOLOGY FUND, SERIES 2:		
For expenses of field work and for preparation of groups.....	1,726 58	
MRS. FRANK K. STURGIS FUND:		
Purchase and mounting of Birds of Paradise.	60 52	
CONGO EXPEDITION FUND:		
For expenses of field work, Africa, salaries of Messrs. Lang and Chapin, and equipment of expedition.....	8,827 27	
		10,614 37
Carried forward.....		$21,902 70

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

SPECIAL FUNDS ACCOUNT

RECEIPTS

1910

Brought forward			$27,724 27
VERTEBRATE PALÆONTOLOGY:			
HORSE EXPLORATION FUND:			
Frank K. Sturgis		$200 00	
TERTIARY FAUNAL LIFE SCENES FUND:			
Balance		600 00	
			800 00
ANTHROPOLOGY:			
EAST ASIATIC FUND:			
Balance		3,141 75	
BERLIN NORTH AMERICAN FUND:			
Balance		78 50	
BOARD OF MISSIONS FUND:			
Balance		830 00	
PRIMITIVE PEOPLES OF SOUTHWEST FUND:			
Archer M. Huntington	$5,000 00		
Antarctic Exploration Fund, Transfer from above Fund	4,500 00		
		9,500 00	
INDIAN BLANKET FUND:			
Anson W. Hard		2,000 00	
TEFFT COLLECTION FUND:			
James Douglas	500 00		
Felix M. Warburg	2,500 00		
		3,000 00	
LENDERS COLLECTION COSTUMES PLAINS INDIANS:			
J. Pierpont Morgan		15,000 00	
			33,550 25
INVERTEBRATE ZOÖLOGY:			
ASHOKAN WATERSHED BIOLOGICAL SURVEY FUND:			
Balance			136 50
ICHTHYOLOGY AND HERPETOLOGY:			
FOSSIL FISH EXPLORATION FUND:			
Balance	2,168 25		
Cleveland H. Dodge	1,000 00		
Reserve Fund:			
Transfer subscription of Cleveland H. Dodge	1,000 00		
			4,168 25
PUBLIC EDUCATION:			
CHILDREN'S ROOM FUND:			
Balance	172 97		
A Friend	6 00		
		178 97	
TEACHERS' DAY FUND:			
Cleveland H. Dodge	100 00		
Adrian Iselin, Jr	200 00		
Seth Low	50 00		
J. P. Morgan	250 00		
Henry F. Osborn	100 00		
J. Hampden Robb	25 00		
		725 00	
Carried forward			$66,379 27

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1910

Brought forward			$21,902 70
VERTEBRATE PALÆONTOLOGY:			
Transferred to Vertebrate Palæontology General Account for general work of Department		$200 00	
TERTIARY FAUNAL LIFE SCENES FUND:			
Mural Decorations, Department of Vertebrate Palæontology		600 00	800 00
ANTHROPOLOGY:			
EAST ASIATIC FUND:			
Publication Han Pottery Memoir		798 26	
BERLIN NORTH AMERICAN FUND:			
Purchase of specimens		78 50	
BOARD OF MISSIONS FUND:			
Purchase of specimens		375 00	
PRIMITIVE PEOPLES OF SOUTHWEST FUND:			
For expense of field work	$7,055 46		
Transferred to Anthropology General Account for purchase of Hopi Collection	2,000 00	9,055 46	
INDIAN BLANKET FUND:			
Purchase of Blankets	1,423 56		
Transferred to Anthropology General Account for purchase of Blankets	576 44	2,000 00	
TEFFT COLLECTION FUND:			
Purchase of Collection, 1st payment		3,000 00	
LENDERS COLLECTION COSTUMES PLAINS INDIANS:			
Transferred to Anthropology General Account for purchase of Collection		15,000 00	30,307 22
ICHTHYOLOGY AND HERPETOLOGY:			
FOSSIL FISH EXPLORATION FUND:			
For expenses of field work and purchase of specimens			2,156 49
PUBLIC EDUCATION:			
CHILDREN'S ROOM FUND:			
Purchase of supplies		8 66	
TEACHERS' DAY FUND:			
Expenses in connection with Teachers' Day, November, 1910		695 00	
Carried forward			$55,166 41

SPECIAL FUNDS ACCOUNT

RECEIPTS

1910

Brought forward			$66,379 27
PUBLIC EDUCATION—*Continued*			
JONATHAN THORNE MEMORIAL FUND:			
Interest		$520 00	1,423 97
PUBLICATIONS:			
JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS:			
Balance		604 08	
Mrs. Morris K. Jesup		3,000 00	
			3,604 08
Total net receipts for the development of specific departments			**71,407 32**
RESERVE FUND:			
Balance, subscription of Mrs. Louisine W. Havemeyer		250 00	
Cleveland H. Dodge		4,000 00	
			4,250 00
ANTARCTIC EXPLORATION FUND:			
Archer M. Huntington		5,000 00	
Arthur Curtiss James		5,000 00	
			10,000 00
VERTEBRATE PALÆONTOLOGY FIELD FUNDS:			
Henry Fairfield Osborn			2,000 00
PENSION FUND:			
Archer M. Huntington			1,000 00
INVESTMENT FUND:			
Balance		1,295 92	
Mrs. John B. Trevor		5,000 00	
Estate of Darius Ogden Mills		100,000 00	
Estate of Phebe Anna Thorne	$10,000 00		
Residuary Estate of Phebe Anna Thorne	15,000 00		
		25,000 00	
Sale of Bonds		11,000 00	
Redemption of Bonds		21,050 00	
Cash on transfer of Bonds		131 31	
GENERAL ACCOUNT:			
Transfers, Patronships	2,000 00		
Reimbursement from interest on General Endowment Fund of accrued interest on bonds at time of purchase	2,623 61		
Reimbursement from interest on Morris K. Jesup Fund of accrued interest on bonds at time of purchase	12,447 37		
Reimbursement from interest on Jonathan Thorne Memorial Fund of accrued interest on bonds at time of purchase	63 56		
		17,134 54	180,611 77
REIMBURSEMENTS:			
Primitive Peoples of Southwest Fund	35 34		
Fossil Fish Exploration Fund	31 47		
Jonathan Thorne Memorial Fund	456 44		
			523 25
INTEREST ON CREDIT BALANCES:			1,053 35
			$270,845 69

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

SPECIAL FUNDS ACCOUNT

DISBURSEMENTS

1910

Brought forward		$55,166 41
PUBLIC EDUCATION—*Continued*		
JONATHAN THORNE MEMORIAL FUND:		
Transferred to General Supplies and Expenses amount advanced for accrued interest on purchase of bonds	$63 56	767 22
PUBLICATIONS:		
JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS:		
Publications of Expedition		1,308 55
Total net disbursements for the development of specific departments		**57,242 18**
RESERVE FUND:		
TRANSFERRED TO:		
North American Ornithology Fund, Series 2	250 00	
Congo Expedition Fund	1,000 00	
Fossil Fish Exploration Fund	1,000 00	
General Receipts, General Account	2,000 00	4,250 00
ANTARCTIC EXPLORATION FUND:		
TRANSFERRED TO:		
Primitive Peoples of Southwest Fund	4,500 00	
Preparation and Exhibition, General Account, for preparation of polar maps	500 00	
General Receipts, General Account	5,000 00	10,000 00
VERTEBRATE PALÆONTOLOGY FIELD FUNDS:		
TRANSFERRED TO GENERAL RECEIPTS, GENERAL ACCOUNT		2,000 00
INVESTMENT FUND:		
PURCHASE OF BONDS	177,235 17	
ACCRUED INTEREST ON BONDS AT TIME OF SALE TRANSFERRED TO INTEREST ON MORRIS K. JESUP FUND, GENERAL ACCOUNT	1,361 11	178,596 28
REIMBURSEMENTS:		
REIMBURSEMENTS WHICH HAVE BEEN DEDUCTED FROM GROSS EXPENDITURES OF THE FOLLOWING SPECIAL FUNDS:		
Primitive Peoples of Southwest Fund	35 34	
Fossil Fish Exploration Fund	31 47	
Jonathan Thorne Memorial Fund	456 44	523 25
INTEREST ON CREDIT BALANCES:		
EARNINGS TO DECEMBER 31, 1910, TRANSFERRED TO GENERAL ACCOUNT		1,053 35
CASH ON HAND DECEMBER 31, 1910		17,180 63
		$270,845 69

CHARLES LANIER, *Treasurer*

[E. & O. E.]

NEW YORK, *December 31, 1910*

LIST OF ACCESSIONS, 1910

DEPARTMENT OF PUBLIC EDUCATION

By Gift

H. CHAUNCEY, New York City.
15 Photographs of Swiss Glaciers.

KENNEDY CONKLIN, New York City.
1 Snowy Owl.

JOHN D. CRIMMINS, New York City.
Autograph invitation to President U. S. Grant, to participate in the laying of the Corner-stone of the Museum.

A FRIEND.
Flowering plants, books and games.

G. V. HOLLINS, New York City.
1 Crane.

PHILADELPHIA COMMERCIAL MUSEUMS, Philadelphia, Pa.
Cabinet of Industrial Exhibits.

H. I. PRATT, Brooklyn, N. Y.
1 Large Palm.

Capt. E. RASON, Reigate, England.
11 Photographs from New Hebrides Islands.

EDWARD ROESLER, Jr., New York City.
3 Live Guinea Pigs.

By Exchange

SIR HARRY H. JOHNSTON, Poling, Sussex, England.
28 Photographs of African material.

By Purchase

FIELD MUSEUM OF NATURAL HISTORY, Chicago, Ill.
25 Negatives illustrating Weaving.

By Loan

A. RADCLYFFE DUGMORE, New York City.
60 Negatives of British East Africa.

KERMIT ROOSEVELT, Oyster Bay, L. I.
1200 Negatives of African material, with the privilege of making prints.

Dr. LOUIS LIVINGSTON SEAMAN, New York City.
81 Negatives and 50 photographs of the Zambesi country.

Miss VERA SIMONTON, Pittsburgh, Pa.
33 Photographs of African material, with the privilege of making negatives.

Through Museum Expedition

279 Negatives obtained during two trips to the southwestern United States by Dr. Pliny E. Goddard.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

GEOLOGY

By Gift

CALUMET AND HECLA MINES CO., Calumet, Mich. (through Mr. C. H. Benedict).

12 Samples of mill products from Lake Linden, Mich.

COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz.

1 Stalagmite 3 ft. high x 2½ ft. in diameter.

17 Boxes of stalactites, stalagmites, crystals and other wall material from a cave in the Copper Queen Mine.

15 Specimens of typical ores and minerals from Bisbee.

15 Geological specimens from Mt. Martin, Bisbee.

92 Specimens illustrating the physical geology of the Copper Queen Mine.

5 Specimens of Native Copper and Cuprite from Bisbee.

DETRIOT COPPER CO., Morenci, Ariz.

20 Specimens of ores and rocks from Morenci.

GREENE-CANANEA CONSOLIDATED COPPER CO., Cananea, Mexico.

23 Samples of mill work from Cananea.

JOHN HAYS HAMMOND, New York City.

8 Specimens from the Transvaal gold region, South Africa.

C. M. HARPER, New York City.

1 Specimen of Vanadinite from near Globe, Ariz.

Mrs. E. H. HARRIMAN, New York City.

36 Specimens of onyx, marbles and limestones from localities in the West.

SAMUEL HELLER & SON, New York City.

A series of about 75 specimens and photographs illustrating the manufacture of synthetic sapphires and rubies.

MOCTEZUMA COPPER CO., Nacozari, Sonora, Mexico.

13 Specimens from the Pilares Mine.

CHARLES PALACHE, New Haven, Conn.

1 Fragment of a large crystal of Fayalite in Pegmatite in Granite from Rockport, Mass.

OTTO F. PFORDTE, Rutherford, N. J.

7 Specimens of Zincite, Franklinite, etc., from Franklin Furnace and Ogdensburg, N. J.

Sir ERNEST SHACKLETON, British Antarctic Expedition.

27 Specimens from Cape Royds, Mt. Erebus, Antarctica.

By Purchase

6 Specimens of Quartz crystals and decomposed Granite carrying Native Gold from mines near Berezov, Russia.

1 Specimen of honeycomb Quartz carrying Gold from Berezov, Russia.
1 Specimen of Native Silver in Limestone from the McKinley-Darragh Mine, Cobalt, Ontario, Canada.
1 Slab showing Trap Dike in Granodiorite from St. Cloud, Minnesota.
1 Gold-Quartz nugget from placer in California.
1 Large slab of Quincy Pegmatite.
1 Slice and a cast of El Inca Meteorite from Peru.
1 Large piece of the Brenham Meteorite.
1 Entire mass of the Knowles Meteorite.
12 Geological specimens from Virgilina Copper District, Halifax Co., Va., and Granville Co., N. C.
8 Specimens of Rutile, etc., from Nelson Co., Va.
16 Specimens of Native Silver, ores and rock from Cobalt, Ontario.

INVERTEBRATE PALÆONTOLOGY

By Gift

BARNUM BROWN, New York City.
2 Fragments containing fossil Teredo shells from the Tax Hills formation on the Missouri River at Lismas, Mont.

WALTER GRANGER, New York City.
7 Specimens of *Macrocyclis spatiosa* Meek and Hayden from Wind River beds, Alkali Creek, Wyo.
11 Specimens of *Macrocyclis spatiosa* from the Washakie Basin.
2 Valves of *Margaritana rugosa* (?) from the Washakie Basin.
60 Unios from the Wasatch formation, Big Horn Basin, Wyo.
12 Cerithiums from the Wasatch formation, Big Horn Basin, Wyo.
4 *Macrocyclis spatiosa* from the Wasatch formation, Big Horn Basin.

By Exchange

BURNETT SMITH, Skaneateles, N. Y.
28 Specimens from the Manlius Limestone of Onondaga Co., N. Y.

By Purchase

2 Rudistes shells from the Kansas Chalk, Trogo Co., Kan.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

MAMMALS

By Gift

C. E. AKELEY, Chicago, Ill.
6 Bats from British East Africa.

BRITISH MUSEUM (Natural History), South Kensington, London.
1 Skull of Weddell's Seal (*Leptonychotes weddelli*) from Ross Sea, Antarctic regions.

BARNUM BROWN, New York City.
2 Specimens of Shrew from Alberta.

N. G. BUXTON, Denver, Colo.
68 Small mammals from vicinity of Denver, Colo.

DEPARTMENT OF PARKS, New York City.
30 Monkeys, 4 Marmosets, 3 Leopards, 2 Lions, 1 Chinese Cat, 1 Coati, 1 Coyote, 1 Polar Bear, 2 Wapiti Deer, 1 Eland, 1 Moufflon, 1 Capybara, 1 Peccary, 3 Opossums.—Total, 52 specimens received in the flesh from the Central Park Menagerie.

JAMES L. CLARK, New York City.
2 Bongo skulls and 1 Bat from Africa.

COLLEGE OF PHYSICIANS AND SURGEONS, New York City.
1 Asiatic Dog.

Capt. GEORGE COMER, New Bedford, Mass.
1 Shrew from Hudson Bay.

Capt. M. L. CRIMMINS, U. S. A., Fort Davis, Alaska.
2 Small mammals from Nome, Alaska.

Dr. JONATHAN DWIGHT, Jr., New York City.
17 Small mammals from western Turkestan.

GAUDIG AND BLUM, New York City.
1 "Mink-martin."

ERNEST INGERSOLL, New York City.
2 Ground Squirrels (*Citellus*, one of them melanistic) from Yukon, Canada.

Mrs. WILLIAM C. de MILLE, New York City.
1 Marmoset from Venezuela.

A. JOHNSTONE, Brooklyn, N. Y.
2 Small mammals from Staten Island, N. Y.

Hon. MASON MITCHELL, U. S. Consul, Apia, Samoa.
1 Cat (*Felis temmincki mitchelli*) from Tibet.

JOHN T. NICHOLS, Englewood, N. J.
3 Field Mice from Oregon.

G. FREDERICK NORTON, New York City.
2 Skins of Glacier Bears from Alaska.

K. V. PAINTER, Cleveland, Ohio.
1 Skeleton of Giant Forest Pig (*Hylochærus*) from Africa.

Dr. C. H. TOWNSEND, New York City.
1 Skin of albino Fur Seal.

FRANK WEINBERG, New York City.
1 Siamese Cat.

NEW YORK ZOÖLOGICAL SOCIETY.
1 Black Macaque, 1 Lioness, 1 Tiger, 1 Leopard, 2 Siamese Cats, 1 Paradoxurus, 1 Civet Cat, 1 young Walrus, 1 young Musk-ox, 3 Antelopes, 1 Rocky Mountain Goat, 1 Deer, 1 Wild Ass, 1 Hyrax, 1 Rhinoceros.—Total, 18 specimens received in the flesh from the New York Zoölogical Park.

By Purchase

480 Small mammals from various parts of North America; 2 specimens from Nicaragua, 6 from Siam, and 4 Solenodons from San Domingo.

Through Museum Expeditions

20 Small mammals from Mexico; 50 from the Dutch East Indies; 4 skeletons of large Whales, 2 skeletons of small Whales, and 10 skeletons of Porpoises (4 species) from Japan; 170 specimens from Venezuela.

BIRDS

By Gift

Mrs. J. E. ALGER, Oyster Bay, L. I.
1 Mounted Mexican Jacana.

B. S. BOWDISH, Demarest, N. J.
6 Small birds, in the flesh.

COURTENAY BRANDRETH, Ossining, N. Y.
1 Mallard Duck, in the flesh.

BRITISH MUSEUM (Natural History), South Kensington, London.
11 Eggs from the Antarctic regions—1 of the King Penguin, 6 of the Black-throated Penguin, and 4 of MacCormick's Skua.

N. G. BUXTON, Denver, Colo.
1 Skin of Western Tree Sparrow, 1 skin of Red-winged Blackbird from Colorado.

FRANK M. CHAPMAN, Englewood, N. J.
1 Screech Owl, in the flesh.

RUSSELL J. COLES, Danville, Va.
1 Sanderling and 1 Snow Bunting, in the flesh, from North Carolina.

GEORGE CROCKER, New York City.
1 Red-shouldered Hawk, in the flesh.

P. M. CUSHING, Larchmont, N. Y.
Old Squaw Duck, in the flesh.

Mrs. WILLIAM C. de MILLE, New York City.
18 Skins of small birds from Merida, Venezuela.

DEPARTMENT OF PARKS, New York City.
2 Rheas, 19 Swans, 2 Egyptian Geese, 1 Herring Gull, 1 American Bittern, 1 Vulture, 4 Eagles, 1 Owl, 1 Peacock, 5 Pheasants, 5 Cockatoos, 2 Macaws, 6 Amazon Parrots, 1 Toucan, 1 Garrulax. —Total, 52 specimens received in the flesh from the Central Park Menagerie.

Dr. JONATHAN DWIGHT, Jr., New York City.
98 Miscellaneous bird skins, without data.

Lieut. G. T. EMMONS, Princeton, N. J.
1 Nest of Baltimore Oriole.

G. CLYDE FISHER, De Funiak Springs, Fla.
6 Birds from Florida (2 skins, 4 in alcohol).

L. A. FUERTES, Ithaca, N. Y.
4 Skins, including the type of a new species of *Icterus* from Mexico, and 1 Hooded Merganser in the flesh.

DWIGHT FRANKLIN, New York City.
2 Skins of Bee-eaters from Morocco.

CHAPMAN GRANT, New York City.
1 Skin of Hermit Thrush.

H. O. HAVEMEYER, Jr., Mahwah, N. J.
1 Four-legged Chicken.

B. F. HOWELL, Troy Meadows, N. J.
1 Mounted Yellow Rail.

THEODORE R. HOYT, New York City.
1 Mounted Duck, a hybrid between the Mallard and the Pintail.

JAMES KEMP, New York City.
1 Barred Owl, in the flesh.

W. De W. MILLER, Plainfield, N. J.
3 Hawks and 1 Loon, in the flesh.

Hon. MASON MITCHELL, U. S. Consul, Apia, Samoa.
18 Skins of Samoan birds.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.
2 Cassowaries, 2 Screamers, 2 Upland Geese, 1 Pelican, 1 Adjutant Stork, 2 Ocellated Turkeys, 1 Bataleur Eagle, 1 Harpy Eagle, 1 Hyacinthine Macaw.—Total, 13 specimens received in the flesh from the New York Zoölogical Park.

Dr. L. E. NORFLEET, Tarboro, N. C.
1 Albino Grackle, in the flesh.

G. FREDERICK NORTON, New York City.
2 Skins of Black Oyster-catcher.

PEARY ARCTIC CLUB, Brooklyn, N. Y.
1 Nest of Knot, the first known to science.

Miss PHILLIPS.
1 Double Yellowhead Parrot (*Amazona oratrix*).

Mrs. D. F. PLATT, Englewood, N. J.
1 Hermit Thrush, in the flesh.

HARRY RAVEN, Bay Shore, N. Y.
1 Night Heron, 1 Merganser, 1 Meadowlark, 1 Sanderling, 1 Plover.

JENNESS RICHARDSON, Rutland, Vt.
1 Skin of Fish Crow.

Dr. L. C. SANFORD, New Haven, Conn.
5 Ducks from North Carolina and 1 Swan, in the flesh; 2 skins of Grouse from Alaska; 1 skin of Canvasback Duck.

Dr. THOMAS R. SAVAGE, New York City.
1 Nest of Weaver-bird from Africa.

E. LeROY THOMSON, Siasconset, Mass.
1 Pomarine Jaeger, in the flesh.

DR. C. H. TOWNSEND, New York City.
14 Skins of rare and interesting birds from the Hawaiian Islands.

E. H. WHITE, New York City.
1 Lory, in the flesh.

By Exchange

2 Masked Bob-white from Mexico; 1 Gull-billed Tern and 1 Mayan Horned Owl from eastern Mexico; 57 small birds, mostly from Costa Rica; 14 birds from various localties; all skins. 1 Virginia Rail, in the flesh. 10 sets of eggs of North American birds.

By Purchase

155 Skins from China; 46 skins from Siam; 87 skins from New York State; 65 skins, 29 nests and 66 eggs from Panama; 14 skins of large birds from the Arctic regions; 2 Kiwis from New Zealand (*Apteryx australis* and *A. haasti*); 1 egg of *Æpyornis* from Madagascar; 1 skin of *Nyctibius* from Nicaragua.

Through Museum Expeditions

342 skins and 2 sterna from Borneo, Celebes, Formosa, etc.; 200 skins and a number of nests and eggs from northwestern Arctic America; 111 skins from Yucatan and Vera Cruz; 116 skins from Panama; 11 Rails, in the flesh, from Connecticut.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

By Gift

SENCKENBERG MUSEUM, Frankfurt-a-Main, Germany.
Complete skeleton of *Mystriosaurus*, a marine crocodile of the Jurassic Period, from Holzmaden in Württemberg.

MASTER CHARLES CARROLL THOMAS, New York City.
1 Mastodon Tooth.

E. C. WATERS, Poughkeepsie, N. Y.
Humerus of large Elk found in glacial drift at Brantford, Ontario.

By Exchange

MUSEO DE LA PLATA, Argentine Republic.
Series of casts of extinct South American mammals, including the skeleton of *Toxodon* and skull of *Onohippidium*.

UNIVERSITY OF TÜBINGEN, Germany.
Skeleton, uncrushed and nearly complete, of *Ophthalmosaurus*, an Ichthyosaurian marine reptile of the Jurassic Period.

By Purchase

Partial skeleton of a fossil reptile (? Dinosaur) from the Triassic shales of the Newark formation at Fort Lee, N. J.

THROUGH MUSEUM EXPEDITIONS

CRETACEOUS OF MONTANA AND ALBERTA.

Skeletons of a Duck-billed Dinosaur, a small Horned Dinosaur and a large Armored Dinosaur; parts of skeletons of Carnivorous and Herbivorous Dinosaurs.

PERMIAN OF SOUTH AFRICA.

Skeleton of *Delphinocephalus* and series of skulls of other ancient and peculiar reptiles of the Karroo formation in Cape Colony, collected by Dr. R. Broom.

TERTIARY OF WYOMING.

Collection of fossil mammals of the Lower Eocene from the Big Horn Valley of Wyoming, about 600 catalogued specimens, including a mountable skeleton of the Four-toed Horse and many skulls, jaws and other parts of new or little-known species.

DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

BY GIFT

CLEVELAND H. DODGE FUND.

Collection of fishes made in Moon Lake, Mississippi, including the Paddlefish, Garpike, and a general collection of local fishes (about 20 species).

Collection of about 120 species of fishes from the Pacific coast, made by Dr. E. C. Starks of Leland Stanford University.

Collection of 65 specimens of Arthrodira from the Cleveland shales of Ohio, made by Mr. Peter A. Bungart.

7 Fishes collected by Mr. W. T. Kinnear in the Old Red Sandstone of Scotland, including *Mesacanthus*, *Ischnacanthus* and *Dipterus*.

1 *Aspidorhynchus acutirostris* from the Lithographic shales of Bavaria.

3 *Xenacanthus* from the collection of Professor Anton Fritsch of Bohemia.

2 Fossil fishes from Dr. F. Krantz, Bonn, Germany, from the Upper Oligocene of Hessen.

11 Fossil fishes from the Upper Devonian of Canada, collected by Mr. Anthony Plourde, including *Eusthenopteron*, *Scaumenacia* and *Bothriolepis*.

A Small slab with numerous specimens of *Prolebias cephalotes* and one *Homosteus milleri*, from Ward's Natural Science Establishment, Rochester, N.Y.

2 Collections of teeth of *Ptychodus* collected in the Cretaceous of Kansas by Mr. Charles H. Sternberg.

ALESSANDRO FABBRI, New York City.
Collection of fishes made by the yacht "Tekla" in Florida waters and moulds of a Cub Shark and of a Saw-fish.

GEORGE McKESSON BROWN, New York City.
1 Swordfish.

RUSSELL J. COLES, Danville, Va.
Collection of about 77 species of fishes from the coast of North Carolina.

Dr. BASHFORD DEAN, Riverdale, N. Y.
A lantern fish (*Mausolicus pennanti*).

DEPARTMENT OF ANTHROPOLOGY, transfer.
A pair of shark jaws from the Indian Ocean.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY, transfer.
3 or 4 Species of fishes collected in the Ashokan Survey.
5 Small fishes collected by Mr. Harlan I. Smith in Alaska.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY, transfer.
1 Skull and one alcoholic specimen of the fresh-water Ling.

OTTO FALKENBACH, New York City.
1 Angler.

DWIGHT FRANKLIN, New York City.
1 Threadfish.

Dr. E. W. GUDGER, Goldsboro, N. C.
4 Sea Catfish and a number of Catfish from the coast of North Carolina.

JOHN HISCOX, New York City.
1 Burrfish.

OSCAR T. MACKEY, New York City.
1 Small-mouthed Black Bass.

NEW YORK AQUARIUM, New York City.
About 50 fishes, including a Sailfish, a Wreckfish, an albino Trout and a Tunny.

JOHN T. NICHOLS, New York City.
20 Species of fishes from the Pacific coast.

PEARY ARCTIC EXPEDITION.
1 Species of Trout.

VICTOR J. RODRIGUEZ, Matanzas, Cuba.
Dried specimens of 1 Batfish and 1 Flying Gurnard.

WILLIAM JAY SCHIEFFELIN, New York City.
1 Amberjack.

NORMAN TAYLOR, New York City.
1 Lionfish.

WILLIAM C. VAN ANTWERP, New York City.
1 Mounted Sailfish.

LAWRENCE WATERBURY, New York City.
1 Mounted Sailfish.

By Exchange

DEPARTMENT OF FISHERIES, Sydney, New South Wales.
A number of specimens of the Rough-backed Herring, *Potamolosa novæ-hollandæ.*

FREE PUBLIC MUSEUM, Liverpool, England.
1 *Protopterus*, 1 *Periophthalmus*, 1 *Macrurus* and 4 casts of fishes.

ROYAL SCOTTISH MUSEUM, Edinburgh, Scotland.
A cast of *Homosteus milleri* and one of *Cladodus neilsoni.*

REPTILES AND BATRACHIANS

By Gift

CLEVELAND H. DODGE FUND.
9 *Bufo lentiginosus*, 2 *Rana catesbiana*, 7 *Rana sphenocephala*, 6 *Engystoma carolinense*, 11 *Scaphiopus holbrookii*, 2 *Amphiuma* and 6 *Manculus quadridigitatus* from Raleigh, N. C.
9 *Bufo lentiginosus*, 24 *Bufo quercicus* and 2 *Siren lacertina* from Florida.
21 *Bufo americanus* from Chicago, Ill.
1 *Amphiuma* from Hale Co., Alabama.
8 *Necturus* from Ithaca, N. Y.
2 *Amblystoma punctatum* from Stamford, Conn.
Development stages of *Necturus maculatus* from Oconomowoc, Wis.
Development stages of *Cryptobranchus allegheniensis* from Pennsylvania.

Dr. THOMAS BARBOUR, Cambridge, Mass.
1 *Rana montezumæ* from Mexico.

DANIEL C. BEARD, Flushing, L. I.
1 *Cryptobranchus allegheniensis* from Covington, Ky.

THOMAS BLEAKNEY, Brooklyn, N. Y.
9 *Bufo fowleri*, 3 *Rana palustris* from Yonkers, N. Y.

F. BISHOP, Cambridge, Mass.
1 Spiny-tailed Iguana.

Dr. L. C. BUCKLEY, Bangkok, Siam.
1 Lizard skin from Siam.

C. S. BRIMLEY, Raleigh, N. C.
7 *Manculus quadridigitatus* from Raleigh, N. C.

CHARLES CHRISTMAN, New York City.
12 *Rana sylvatica*, 20 *Hyla pickeringii* from Bryn Mawr Park.

WILLIAM T. DAVIS, New Brighton, Staten Island, N. Y.
7 *Bufo americanus* and 1 *Bufo fowleri* from Clayton, Ga.
1 *Bufo fowleri* from Washington.

RICHARD DECKERT, Mount Vernon, N. Y.
12 *Hyla pickeringii*, 8 *Rana sylvatica.*

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

From Ashokan Survey: 5 *Bufo americanus*, 7 *Bufo fowleri*, 7 *Rana catesbiana*, 28 *Rana clamitans*, 56 *Rana palustris*, 1 *Rana sylvatica*, 4 *Hyla pickeringii*, 26 tadpoles of various species; 53 *Desmognathus fusca*, 3 *Desmognathus ochrophæa*, 55 *Diëmyctylus viridescens* 16 *Plethodon cinereus*, 1 *Plethodon glutinosus*, 1 *Spelerpes bilineatus*, 1 *Spelerpes ruber*, 1 *Chelydra serpentina*, 1 *Chrysemys picta*, 1 *Cyclophis vernalis*, 6 *Natrix fasciata sipedon*, 3 *Thamnopis saurita*, 3 *Thamnopis sirtalis*.

Small collection of Batrachians and Reptiles from the Philippine Islands.

Collection of Batrachians from Colorado Springs.

Collection from localities in New York: 5 *Bufo americanus*, 2 *Rana sylvatica*, 2 *Hyla pickeringii*, 3 *Amblystoma punctatum*, 4 *Desmognathus fusca*, 4 *Plethodon cinereus*, 2 *Plethodon glutinosus*.

3 Lizards from Havana, Cuba.

DEPARTMENT OF PUBLIC EDUCATION OF THE MUSEUM.

1 Hognosed Snake (*Heterodon platyrhinus*).

H. S. DICKERSON, Lafayette, Ind.

7 *Bufo fowleri* from Indiana.

18 *Amblystoma opacum*, 1 *Amblystoma punctatum*, 1 *Desmognathus fusca*, 14 *Diëmyctylus viridescens*, 2 *Spelerpes bilineatus* from Providence, R. I.

3 *Autodax lugubris*, 3 *Batrachoseps attennatus*, 9 *Hyla regilla* from Palo Alto, Calif.

Collection of Salamanders, showing life histories, from California and Rhode Island.

DR. T. B. FORD, Columbia, Miss.

1 Congo Eel (*Amphiuma means*) from Columbia.

DWIGHT FRANKLIN, New York City.

8 *Bufo americanus*, 15 *Diëmyctylus viridescens*, 12 *Rana clamitans* and a small collection of Reptiles.

ARTHUR G. HAMILTON, New York City.

4 Painted Turtles (*Chrysemys picta*).

ADAM HERMANN, New York City.

A collection of 35 Lizards from Europe and America.

GNEOMAR VON KROCKOW, Brooklyn, N. Y.

2 Water-snakes (*Tropidonotus fasciatus*) from New York.

SEÑOR PEDRO LOPEZ, Bogota, Colombia.

1 Snake skin from U. S. of Colombia.

HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.

2 Snakes from Samoa.

NEW YORK AQUARIUM, New York City.

1 *Hyla maxima*, 2 *Chrysemys picta*, 1 *Rana catesbiana*, 1 young Alligator, 2 Hawk's-bill Turtles (*Chelonia imbricata*).

NEW YORK ZOÖLOGICAL PARK.

1 Green Tree Snake, 1 Hooded Cobra, 1 Australian Carpet Snake (*Morelia variegata*), 1 Indian Rat Snake (*Zamensis mucosus*), 4 young Copperhead Snakes (*Ancistrodon contortrix*), 1 Hognosed Snake (*Heterodon platyrhinus*), 9 young Banded Rattlers (*Crotalus horridus*), 1 Ribbon-snake (*Eutonnia saurita*), 1 Bushmaster (*Lachesis mutus*), 1 European Coluber, 12 young Watersnakes, 2 Spotted Turtles (*Chelopus guttatus*), 3 South American Tortoises (*Testudo elegans*), 9 Surinam Toads (*Pipa americana*).

JOHN T. NICHOLS, Englewood, N. J.

5 *Bufo boreas* from Oregon.

W. B. NICHOLS, New York.

Collection of Snakes from Long Island and Cold Spring Harbor.

WILLIAM B. OLNEY, Seekonk, Mass.

27 *Bufo fowleri*, 4 *Hyla versicolor*, 10 *Rana pipiens* from Seekonk.

Prof. J. E. REIGHARD, Ann Arbor, Mich.

20 *Bufo americanus* from Ann Arbor.

Hon. THEODORE ROOSEVELT, Oyster Bay, L. I.

Toad (*Bufo cognatus*) swallowing Salamander (*Amblystoma tigrinum*).

STANFORD UNIVERSITY, California.

24 Tree Frogs (*Hyla regilla*) from Palo Alto, Calif.

F. WEINBERG, Long Island, N. Y.

Small collection of Turtles.

By Exchange

MUSEUM OF COMPARATIVE ZOÖLOGY, Cambridge, Mass.

1 *Bufo melanostichus*, 1 *Amblysephalus carinatus*, 1 *Draco volans*, 1 *Dryophis prasinus*, 1 *Mabuia multifaciata*, 1 *Natrix vittata*, 1 *Natrix subminiata*, 1 *Natrix trianguligera*, 1 *Ptychozoon kuhli* from Java.

1 *Hyla dolishopsis*, 1 *Dasia smaragdinum* from Sorong, New Guinea.

1 *Rana varians*, Blgr. from Moluccas.

Through Museum Expeditions

Moon Lake, Mississippi: Small collection of Batrachians and Reptiles secured by Dr. Louis Hussakof and Mr. Dwight Franklin.

Shimidzu, Japan: 1 *Bufo formosus*, 9 *Hyla arborea japonica*. Secured by Mr. Roy C. Andrews.

DEPARTMENT OF ANTHROPOLOGY

By Gift

F. D. ALLER, Gatico, Chile.

Archæological collection from Cobija, Chile.

ALLISON T. ARMOUR, New York City.

Head-hunter's knife from Borneo.

FREDERICK BAUER, New York City.

Collection from the Seminole Indians of Florida.

WALTER H. BEEBE, New York City.
Porcelain brick from Porcelain Tower, Nanking, China.

DR. H. C. BUMPUS, New York City.
Indian basket from Connecticut and ethnological collection from Mexico, including 18 pieces of pottery.

T. W. CHURCH, New York City.
Collection of Chinese weapons.

WILLIAM C. CHURCH, New York City.
Stone idol found at Panama.

RUSSELL J. COLES, Danville, Va.
2 Potsherds from New River Inlet, N. C.

COLUMBIA UNIVERSITY, New York City.
2 Stone arrow points found near Aurora, N. Y.

CONSOLIDATED TELEGRAPH AND ELECTRICAL SUBWAY CO., New York City.
Old Indian dugout canoe found near Cherry Street, New York City.

E. W. DEMMING, New York City.
Ear of sacred corn used in Indian ceremonies.

ANSON W. HARD, New York City.
Collection of blankets and belts from Mexico and New Mexico.

BLAIZE LORILLARD HARSELL, Bedford, N. Y.
Painted elk skin.

MISS MILFORD H. HOAG, New York City.
6 Chinese models.

DR. J. RAMSAY HUNT, New York City.
Mummy from Catacombs of Guanajuato, Mexico.

B. T. B. HYDE, New York City.
14 Navajo looms.

DR. GEORGE F. KUNZ, New York City, and MR. CHARLES HUGH STEVENSON, Washington, D. C.
Shell beads from Pipemaker Creek, Ga., and four hammerstones from Georgia.

M. F. McCORD, Rush Springs, Okla.
3 Moulds of Indian work on rocks at Rush Springs, Okla.

HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.
1 Woven mat, 1 grass dress and three pieces of tapa cloth from Apia, Samoa.

J. PIERPONT MORGAN, New York City,
Ethnological collection from North America. This collection contains a large number of costumes, weapons, utensils and ceremonial objects from the Plains, Navajo and Apache tribes.

BOSWELL L. MURRAY, Brooklyn, N. Y.
Pipe obtained at Moorehead, Minn.

MRS. RUSSELL SAGE, New York City.
Collection of blankets and costumes from the Navajo and Moki Indians.

OTTO SCHMIDT, New York City.
5 Arrows from New Guinea.

Dr. LOUIS LIVINGSTON SEAMAN, New York City.
12 Pottery vessels and 1 human figure carved in wood from Chepen, Peru.

Mrs. E. L. SEIDENSTICKER, South Orange, N. J.
Wax figure of a Mexican potter.

Dr. W. J. SINCLAIR, Princeton, N. J.
Steatite cylinder found near Lander, Wyo.

F. H. SLACK, New York City.
Cane from Japan.

Dr. HERBERT J. SPINDEN, New York City.
Archæological collection from Burgois Mound, near Bismarck, N. D., part of a decorated skin capa from Brazilian Chaco and a cast of a jade ornament found in Yucatan.

D. C. STAPLETON, Esmeraldas, Ecuador.
Ethnological and archæological collection from Esmeraldas, Ecuador.

JAMES TEIT, Spences Bridge, British Columbia.
Model showing method of attaching string to smooth pebbles used as net sinkers among the Thompson River Indians.

HENRY UTARD, New York City.
1 Stone idol and two pieces of pottery from Mexico.

E. C. WATERS, Poughkeepsie, N. Y.
Piece of French iron tomahawk from Bramford, Ontario, Canada.

F. WEINBERG, Woodside, L. I.
4 Flower pots and piece of native rope from India.

By Exchange

WALLACE F. PECK, New York City.
Eskimo drum from St. Michael Island, Alaska.

STATE HISTORICAL SOCIETY OF WISCONSIN, Madison, Wis.
Archaeological collection from Wisconsin.

Through Museum Expeditions

Ethnological collection from the South Sea Islands. Collected by Mr. Roy C. Andrews.

Ethnological collection from the South Sea Islands. Collected by Professor Henry E. Crampton.

Ethnological and archæological collections from the San Carlos Apache, the White Mountain Apache and the Navajo of Arizona. Collected by Dr. P. E. Goddard. Provided for by Mr. Archer M. Huntington.

Ethnological collection from the Crow Indians of Montana and from the Hidatsa Indians at Fort Berthold, N. D. Collected by Dr. Robert H. Lowie.

Archæological collection from Mexico and Yucatan and ethnological collection from the Rio Grande Pueblos. Collected by Dr. Herbert J. Spinden. Provided for by Mr. Archer M. Huntington.

Ethnological collection from the Hidatsa Indians. Collected by Rev. Gilbert L. Wilson.

Ethnological collection from the Pima and Papago Indians. Collected by Dr. Clark Wissler. Provided for by Mr. Archer M. Huntington.

Ethnological collections from the Menomini Indians of Wisconsin and from the Seminole Indians of Florida. Collected by Mr. Alanson Skinner.

By Purchase

Miss M. I. BAYLY, New York City.
Ethnological specimens from Java.

Miss LAURA E. BENEDICT, New York City.
Ethnological collection from the Philippine Islands.

REGINALD PELHAM BOLTON, New York City.
Archæological collection from New York City.

Miss M. A. CAVENAGH, New York City.
Woman's work-basket and wooden object inlaid with shell from Peru.

Capt. GEORGE COMER, East Haddam, Conn.
Collection of boats, clothing, implements and ornaments of the Eskimo of Southampton Island and west shore of Hudson Bay.

HARRY FOSTER DEAN, Yonkers, N. Y.
Ethnological collection from Africa.

T. E. DONNE, Wellington, New Zealand.
2 Stone idols from New Zealand.

Lieut. G. T. EMMONS, Princeton, N. J.
114 Baskets from British Columbia.

NICHOLAS GRAY, Unalaska, Alaska.
Collection of boats, sea-otter spears, rain coats and models from Alaska.

M. R. HARRINGTON, Shawnee, Okla.
Ethnological collection from the Comanche Indians.

W. C. HILL, New York City.
Ethnological collection from various localities, including Arkansas and Alaska, South America, Australia, South Sea Islands and Philippine Islands.

Miss KATHERINE MAYO, Cape Cod, Mass.
Ethnological collection from Dutch Guiana.

RALPH MEYERS, Taos, New Mexico.
Collection from Taos Pueblo.

Capt. WILLIAM MOGG, Point Barrow, Alaska.
Collection from the Eskimo of Banks Land.

EMIL MOSONYI, New York City.
Collection of ethnological specimens from Guatemala.

Capt. JAMES S. MUTCH, Peterhead, Scotland.
Ethnological collection from Whale Fish Islands, near Disco, Greenland.

WILLIAM NIVIN, City of Mexico.
Jade ornament of Maya culture.

T. R. RODDY, Winnebago City, Neb.
Collection from Winnebago Indians.

ALANSON SKINNER, Staten Island, N. Y.
Collection from the Winnebago and Cayuga Indians.

SONORA NEWS COMPANY, City of Mexico.
Imitation codex from Mexico.

F. G. SPECK, Philadelphia, Pa.
8 Specimens from the Ottawa, Chippewa, and Pottawatomie Indians.

Rev. G. W. STAHLBRAND, Brooklyn, N. Y.
Ethnological collection from the Congo.

Prof. FREDERICK STARR, Chicago, Ill.
Large ethnological collection from the Congo, Africa.

ERASTUS T. TEFFT, New York City.
Large ethnological collection from North America, in part the gift of Mr. Felix M. Warburg and Dr. James Douglas. This collection contains a large number of specimens from the Woodland tribes and several very interesting specimens from the Southwest tribes.

B. VITOLO, New York City.
2 Bronze mirrors from China.

Rev. A. R. WILLIAMS, New York City.
Ethnological collection from the Lower Congo, Africa.

FRED HARVEY, Hopi House, Grand Canyon, Ariz.
Ethnological collection from the Hopi.

DEPARTMENT OF MINERALOGY

By Gift

THE MATILDA W. BRUCE FUND.
43 Specimens of minerals, including Antimony, Amazon Stone, Beryl (pink), Binnite, Blomstrandine, Calcite, Carnotite, Cerussite, Clinochlore, Corundum, Covellite, Davidite, Enargite, Gadolinite, Galena, Garnierite, Gold, Hambergite, Hyalite, Natrochalcite, Orthoclase, Pearceite, Phenacite, Phenacite (crystal), Pyrite, Pyrrhotite (crystallized), Amethystine Quartz, Seligmanite, Serpentine, Snarumite, Sphalerite, Topaz, Topaz on Orthoclase, Vesuvianite, Wulfenite, Zoisite.

JOHN H. DEANE, New York City.
2 Specimens of large green Beryl from Mt. Apatite, Me.

Dr. JAMES DOUGLAS, through Mr. G. D. Van Arsdale, New York City.
Vanadium and Uranium ores from Utah.

A. D. GABAY, New York City.
1 Specimen of Quartz (crystal in the rock), Herkimer Co., N. Y.
1 Box of free crystals (Quartz).

GEOLOGICAL SURVEY OF GEORGIA, through Mr. S. W. McCallis, State Geologist.
1 Specimen of Bauxite, Floyd Co., Ga.

C. C. GOSTLING, New York City.
2 Specimens of Infusorial Earth, Wilkerson, Va.

C. W. HOADLEY, Englewood, N. J.
1 Specimen of Stilbite, West Paterson, N. J.

Mrs. A. J. HOWELL, New York City.
A miscellaneous assemblage of mineral fragments.

C. H. JONES, New York City.
3 Specimens of Anthracite Coal with starlike impressions.

RALPH KIRSH, New York City.
4 Specimens of Cassiterite pebbles (placer), Buck Creek, York, Alaska.
1 Vial of Cassiterite (concentrates), Buck Creek, York, Alaska.

ROBERT LEE, Brooklyn, N. Y.
1 Specimen China Clay, China.

R. B. MEYERS, New York City.
1 Specimen Limonite concretion, Forest Hill, L. I.
1 Specimen Pyrite sphere, Little Neck Bay, L. I.

J. PIERPONT MORGAN, New York City.
1 Large oval-cut gem of Rose Beryl (Morganite), 57½ carats, from Madagascar.
1 Fragment of Rose Beryl (crystal) from Madagascar.

OTTO F. PFORDTE, Rutherford, N. J.
1 Specimen Pectolite, West Paterson, N. J.
1 Specimen Thaumasite, West Paterson, N. J.
1 Specimen Zinnwaldite, Zinnwald, Saxony.
1 Specimen Patronite, Quisque, Peru.
1 Specimen Red Oxide of Vanadium, Peru.
1 Specimen Chalcopyrite, Bergen Hill, N. J.
2 Specimens Radiated Willemite, Franklin, N. J.

OTTO SCHMIDT, New York City.
40 Specimens miscellaneous minerals.

OTTO VEATCH, Atlanta, Ga. (Assistant Geologist, State Survey, Georgia).
1 Specimen Ripidolite, Habersham Co., Ga.

Dr. F. B. VON TEUBER, through Charles W. Mead, New York City.
1 Specimen Gold Sand, San Blas coast, Panama.

By Purchase

1 Specimen Cuprite, Bisbee, Cochise Co., Ariz.
1 Specimen Thaumasite, enclosing Heulandite and Apophillite.
1 Specimen Thaumasite, West Paterson, N. J.
1 Specimen Natrolite, West Paterson, N. J.
1 Specimen Natrolite on Datolite.
5 Specimens Awaruite, Smith River, Calif.

1 Specimen Sylvanite, Cripple Creek, Colo.
1 Specimen Sylvanite, Transylvania, Hungary.
2 Specimens Tourmaline, Pala, Calif.
1 Specimen Tourmaline and Albite, Pala, Calif.
2 Specimens Calcite, St. Lawrence Co., N. Y.
1 Specimen Native Silver, Houghton, Mich.

By Exchange

ANTON BERGER, Austria.
1 Specimen Rhodochrosite, Kapnik, Hungary.
1 Specimen Bournonite, Felsobanya, Hungary.
1 Specimen Bournonite on Galena, Felsobanya, Hungary.

R. B. GAGE, Trenton, N. J.
1 Specimen Alamosite, Alamosa, Mexico.

ALFRED C. HAWKINS, Seewaren, N. J.
1 Specimen massive Polydelphite, Franklin Furnace, N. J.
1 Specimen Pyroxene, Morris Co., N. J.
1 Specimen Serpentine in Dolomite, Morris Co., N. J.
1 Specimen Hedenbergite, Shasta Co., Calif.
1 Specimen Chalcocite, Franklin, N. J.
1 Specimen Biotite, Franklin, N. J.

CHAS. H. JONES, New York City.
1 Specimen Aegyrite, Magnet Cove, Ark.

A. L. PARSONS, Toronto, Canada.
1 Specimen Native Antimony, West Gore, Nova Scotia.
1 Specimen Chalcocite, Tatamagouche, Nova Scotia.
1 Specimen Cinnabar, Cherry Creek, Kamloops, B. C.
1 Specimen Cobaltite crystals, Cobalt, Ontario.
1 Specimen Corundum, India.
1 Specimen Erythrite, Creston, B. C.
1 Specimen Gold (native), Larder Lake, Ontario.
1 Specimen Howlite, Wentworth, Nova Scotia.
1 Specimen Kermesite and Stibnite, West Gore, Nova Scotia.
1 Specimen Niccolite, Cobalt, Ontario.
1 Specimen Pyromorphite, Moyie, B. C.
1 Specimen Quartz (blue), Roseland, Va.
1 Specimen Scapolite, Cardiff Township, Ontario.
1 Specimen Sodalite, Sodalite Creek, B. C.
1 Specimen Staurolite, Jordan Falls, Nova Scotia.
1 Specimen Ulexite on Gypsum, Wentworth, Nova Scotia.

A. H. PETEREIT, New York City.
1 Specimen Phlogopite, Franklin Furnace, N. J.

GEO. O. SIMMONS, Brooklyn, N. Y.
1 Specimen massive Sphalerite, Lehigh Co., Pa.

MILTON G. SMITH, New York City.
2 Specimens Rhodonite, Franklin Furnace, N. J.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY

INVERTEBRATES

By Gift

J. M. ALDRICH, Moscow, Idaho.
2 Specimens of *Hydrophorus magdalenæ*.

G. W. J. ANGELL, New York City.
Type and 4 cotypes of *Corymbites weidtii*, type and 2 cotypes of *Elmis columbiensis* from British Columbia; 375 insects from Lavalette, N. J., and 1 specimen of *Megasoma hector*.

NORMAN ARMOUR, Princeton, N. J.
8 Specimens of Insects.

H. G. BARBER, Roselle Park, N. J.
A collection of local Hemiptera.

GEORGE F. BERTHOUD, Waroona, West Australia.
110 Australian Insects.

THEODORE BITTERMAN, New York City.
1 Centipede from Mindanao, Philippine Islands.

J. F. BRIZZIE, New York City.
1 Tarantula.

C. F. CLARK, Havana, Cuba.
1 Lot of Spiders and Insects from Havana, Cuba.

JAMES L. CLARK, New York City.
6 Vials of Orthoptera, Myriapods, Ants, etc., from British East Africa.

Prof. T. D. A. COCKERELL, Boulder, Colo.
3 Leaves of *Boutclona digostachya* with *Targionia graminella* from Leyden, Colo.

RUSSELL J. COLES, Danville, Va.
1 Lot of Marine Invertebrates.

WILLIAM T. COMSTOCK, Newark, N. J.
515 Local Insects.

W. T. DAVIS, New Brighton, Staten Island, N. Y.
A collection of Myriapods and Spiders from Georgia, and a collection of local Carabidæ and Orthoptera.

Dr. BASHFORD DEAN, Riverdale, N. Y.
1 Nautilus trap from Cebu, Philippine Islands.

R. P. DOW, New York City.
A collection of local Carabidæ.

G. P. ENGELHARDT, Brooklyn, N. Y.
4 Hippoboscidæ from Philadelphia, Pa., and a collection of local Water-beetles.

Mr. and Mrs. JAS. A. ESTY, Sherman, Me., through J. Pierpont Morgan.
1 Hornets' Nest.

Dr. SPENCER FRANKLIN, Las Juntas, Costa Rica.
2 Insects from Abangarez Gold Field, Las Juntas, Costa Rica.

A. D. GABAY, New York City.
3 Sponges from Fanning Island, Pacific Ocean.
J. A. GROSSBECK, New Brunswick, N. J.
425 Local Insects.
ERNST HÆCKEL, Jena, Germany.
A series of 34 microscopic slides of Radiolaria from various localities.
THOMAS HALLINAN, Paterson, N. J.
7 *Crioceris* from Erie, Pa.
E. D. HARRIS, New York City.
50 Cicindelidæ from various localties.
M. A. HASLEHURST, New York City.
A collection of Seafans, Corals, etc., from various localities.
GEORGE G. HEYE, New York City, through Mr. S. A. Barrett.
A collection of Insects from Ecuador.
MASTER WILLIAM HOPFNER, New York City.
26 Coleoptera and 11 Lepidoptera from Rio de Janeiro.
W. A. HORN, Melbourne, Australia.
2 Crabs (*Phlogius crassipes*) and 1 Spider (*Telphusa transversa*) from Central Australia.
A. J. HOWELL, New York City.
A collection of Sponges, Corals and other invertebrates from Nassau, Bahama Islands.
MRS. WARDLEY HUNT, Orange, N. J.
Globe with several hundred Cicada shells.
DR. R. T. JACKSON, Cambridge, Mass.
2 Specimens of *Strongylocentrotus franciscanus* from Puget Sound.
G. W. KEMP, New York City.
1 Piece of wood from Bolivia with work of spiders.
E. KIRBY, Brooklyn, N. Y.
1 Tarantula.
GNEOMAR VON KROCKOW, Brooklyn, N. Y.
A collection of local Arthropods, Worms and Molluscs.
DR. G. LAGAI, New York City.
2 Spiders from Corozal, Panama.
DR. C. W. LENG, New York City.
1 *Omus intermedias*.
DR. E. G. LOVE, New York City.
A collection of local Carabidæ.
DR. F. E. LUTZ, New York City.
400 Insects from various localities and 1 Tape-worm (*Tænia saginata*).
J. R. McLANE, New York City.
Several hundred Lepidoptera from the United States and Europe.
DR. THEODORE C. MERRILL, Colorado, Tex.
A collection of Insects and Spiders from Texas.
HON. MASON MITCHELL, U. S. Consul, Apia, Samoa.
1 Bottle of Palolo Worms and 1 Beetle.

DR. MAX MORSE, Hartford, Conn.
1 *Blabera trapezoidea.*

F. MUIR, Honolulu, Hawaii.
1 *Peripatus ceramensis* from New Guinea.

NEW YORK AQUARIUM, New York City.
4 Specimens of Crustacea and 3 specimens of Coral.

JOHN T. NICHOLS, Englewood, N. J.
2 Goose Barnacles and 3 *Chiton* sp. from Elk Creek, Cañon Beach, Ore.

CHRISTIAN E. OLSEN, Maspeth, N. Y.
60 Local Coleoptera.

DR. R. C. OSBURN, New York City.
A collection of local Syrphidæ and Conopidæ.

DR. A. PETRUNKEVITCH, Montclair, N. J.
1 Spider (*Filistata hibernalis*) from Huntsville, Tex.

C. R. PLUNKETT, Flushing, L. I.
20 Local Membracids from Flushing, L. I.

JAMES RICALTON, Maplewood, N. J.
17 Tsetse Flies from Rhodesia, Africa.

MAJOR W. ROBINSON, West Point, N. Y.
150 Coleoptera from West Point, N. Y.

W. H. SANDBORN, Mattituck, N. Y.
3 Egg-cases of *Natica heros* and 3 Piddock Clams (*Pholas truncata*) from Mattituck, N. Y.

C. SCHAEFFER, Brooklyn, N. Y.
Various local Coleoptera.

ALANSON SKINNER, New York City.
50 Insects from Everglades, Fla., and 36 from Keshena, Wis.

CHARLES E. SLEIGHT, Ramsey, N. J.
A collection of local Orthoptera and Carabidæ.

HARLAN I. SMITH, New York City.
A collection of Annulata, Crustacea, Insecta and Mollusca from Alert Bay, Vancouver Island, B. C.

DR. E. B. SOUTHWICK, New York City.
A collection of Scale Insects from Central Park, New York City.

STATEN ISLAND ASSOCIATION OF ARTS AND SCIENCES, New Brighton, S. I.
56 Local Lepidoptera.

P. TANSSEAU, Madagascar.
9 Specimens of Lepidoptera from Madagascar.

WILL S. TAYLOR, New York City.
1 Spider from Hastings-on-Hudson, New York.

DR. A. L. TREADWELL, Poughkeepsie, N. Y.
26 Vials of Annulates from various localities.

F. WINTERSTEINER, Long Island City, N. Y.
472 European Coleoptera.

L. B. WOODRUFF, New York City.
26 Local Odonata.

MRS. C. WUNDER, Passaic Junction, N. J.
200 Insects from Passaic Junction, N. J.

By Exchange

UNIVERSITY OF CALIFORNIA, Berkeley, Calif.
1 Lot of alcoholic Annulates from the Pacific Coast.

STATEN ISLAND ASSOCIATION OF ARTS AND SCIENCES, New Brighton, Staten Island, N. Y.
26 Insects from Staten Island.

G. W. J. ANGELL, New York City.
4100 Local Coleoptera.

J. W. ANGELL, New York City.
A collection of Coleoptera.

By Purchase

Three jars of *Diopatra cuprea*, *Phascolosoma gouldii*, *Chætopterus variopedatus* from Woods Hole, Mass.

Two Spiders and 2 Scorpions from Dominica, W. I.

One Lot of Coleoptera, Hemiptera, Orthoptera, Arachnida, Myriapoda, etc., from the Philippine Islands.

One collection of Hymenoptera (including 71 vials of Ants), Diptera, Orthoptera, Arachnida, etc., from Paraguay, South America.

One collection of *Balanoglossus kowalevskii* from Woods Hole, Mass.

One lot of Molluscs, Crustaceans, Echinoderms and Annulates from the Pacific Coast.

48 Microscopic slides of typical Rotifera prepared by Mr. C. F. Rousselet.

A collection of about 1500 Insects from Formosa.

A collection of Fossil Plants and Insects from Florissant, Colo.

Through Museum Expeditions

One collection of Echinoderms, Crustaceans and other Marine Invertebrates from Samoa. Collected by Prof. Henry E. Crampton.

One collection of Annulates from Dry Tortugas, Fla. Collected by Prof. Aaron L. Treadwell.

One collection of Invertebrates from Woods Hole and Nahant, Mass., and Casco Bay, Me. Collected by Mr. Roy W. Miner.

One collection of Myriapods, Spiders, Ants and other Invertebrates from Moon, Mississippi. Collected by Dr. Louis Hussakof and Mr. Dwight Franklin.

One collection of various Invertebrates from the vicinity of New York City. Collected by Dr. Frank E. Lutz.

LEPIDOPTERA

By Gift

GEORGE F. BERTHOUD, Waroona, West Australia.
A collection of West Australian Lepidoptera.

W. D. KEARFOTT, Montclair, N. J.
A fine series of *Sarrothripa revevana* showing the variation of the species.

WILLIAM SCHAUS, London, England.
A collection of 500 Central and South American Lepidoptera.

By Purchase

A collection of 3500 specimens of North American Noctuidæ.
A collection of Butterflies from Formosa.
A collection of 400 North American Geometridæ.

MOLLUSCA

By Gift

Miss ELIZABETH W. CATKIN, New York City.
Miscellaneous collection of shells from Bermuda.

Miss D. F. CRERAND, New York City, through Dr. G. F. Kunz.
Oyster shell (*O. virginica*) with adherent pearl, and 7 loose pearls.

A. D. GABAY, New York City.
11 Polished valves of *Meleagrina margaritifera* ("black lip," "silver lip" and "golden edge").
7 *Nautilus pompilius* (4 cut to show siphuncle).
44 *Haliotes*, polished.
38 *Haliotes*, unpolished.
Specimens of *Cantharidus*, *Trochus*, *Turbo*, *Argonauta*, with aboriginal (?) necklaces of shells, and 86 cut and polished mother-of-pearl (*Haliotis*) ornaments.
1 *Meleagrina* with pearl.

A. DA COSTA GOMEZ, Brooklyn, N. Y.
1 Right-handed *Fulgur perversum* from Florida.

WALTER GRANGER, New York City.
Lymnæa and *Pyramidula*, semi-fossil shells from Shell Creek Cañon, Big Horn Mts., Wyo. (elevation 5000 ft.).
Weathered shells from Red Deer River, 30 miles south of Content, and 30 miles south of Stetler, B. C.

Mrs. M. A. HASLEHURST, New York City.
16 Species of shells, of the genera *Amussium*, *Cassis*, *Chiton*, *Cypræa*, *Fusus*, *Hippopus*, *Lucopina*, *Murex*, *Pteroceras*, *Spondylus*, *Strombus*, *Triton*.

Mrs. EDWARD B. MERRILL, through Liberian Consul, Hon. Edward B. Merrill.
1 Very large specimen of *Achatina achatina*, from West Africa.

P. PARTRIDGE, New York City.

Specimens of local shells from Rye Beach, N. Y.

EUGENE W. PRESBREY, New Rochelle, N. Y.

4 Specimens of *Cypræa exanthema* (showing young forms).

L. S. QUACKENBUSH, New York City.

20 Species of shells from Eschholtz Bay, Alaska.

Miss FRANCES L. SPRAGUE, Flushing, L. I.

A collection of shells consisting of 121 genera, 1161 species and 2337 specimens.

CHARLES HUGH STEVENSON, Washington, D. C., through Dr. G. F. Kunz.

20 Valves of *Meleagrina* (mother-of-pearl) from Auckland, Banda Lea, Ceram, Costa Rica, Jeddah, Fiji, Gambia, Port Darwin, Mergui Sea, Tahiti; *Turbo marmoratus* from Macassar and New Guinea; *Trochus niloticus* from Timor, Philippines; *Haliotis cracherodii*, *H. discus*, *H. splendens*, *Livona pica*, valves of Unio.

By Exchange

CHARLES DAYTON GWYER, Brooklyn, N. Y.

154 Specimens (15 genera, 20 species) of New York State land, fresh-water and marine shells.

J. W. JUDD, Brooklyn, N. Y.

4 Specimens of *Leucozonia multangula*, Phil., from Yucatan.

WM. W. WEEKS, Brooklyn, N. Y.

7 *Columbella nitida*, 11 *Euryta aciculata*, var. *nodosoplicata*, Dkr., 9 *Marginella interrupta*, 3 *Oliva oblonga;* all from Caribbean Sea.

By Purchase

A collection of shells from Jamaica, comprising 18 species.

55 Specimens and 32 species of Western pearl-bearing fresh-water clams, ground and polished.

INCORPORATION

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

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

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

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until

an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

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

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

SEC. 5. This Act shall take effect immediately.

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

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

Given under my hand and seal of Office at the City of Albany,
[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

This Agreement, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the Department of Public Parks of the City of New York, the party of the first part, and the American Museum of Natural History, party of the second part, witnesseth:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In presence of
D. PORTER LORD.

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

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

SEAL of the American Museum of Natural History

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

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

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

W. C. BESSON,
[SEAL.] (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.

W. C. BESSON,
[SEAL.] (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,

FREDERICK W. LOEW,
[SEAL.] *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

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

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 1. 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*.

Contracts awarded to December 31, 1910.

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.

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.

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, $26,100.

Completed May 29, 1910.

APPROPRIATIONS AND EXPENDITURES MADE THEREON TO DECEMBER 31, 1910

APPROPRIATION:			
By Direct Appropriation		$500,000 00	
Premiums on Sale of Bonds		11,090 63	
			$511,090 63
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	26,100 00		
Charles Volz, Architect's Fees	1,304 99		
Cady, Berg & See	6,935 71		
Harlem Contracting Co	4,430 27		
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	39,963 77		
Carpenters' Payroll, etc	62,779 78		
		$510,117 38	
Outstanding Contracts (Harlem Contracting Co.)		222 67	$510,340 05
Available Balance Dec. 31, 1910			$750 58

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.*

APPROPRIATIONS AND EXPENDITURES MADE THEREON TO DECEMBER 31, 1910

APPROPRIATION:			
By Direct Appropriation		$100,000 00	
Premiums on Sale of Bonds		445 84	
			$100,445 84
EXPENDITURES:			
John F. Kuhn	$ 1,643 00		
Museum Orders	11,164 02		
Carpenters' Payrolls, etc	28,829 49		
		$41,636 51	
OUTSTANDING CONTRACTS:			
Peter J. Constant	$1,681 91		
Pittsburgh Plate Glass Co	2,705 98		
Cardo Borgia Stone Co	1,552 10		
Peter J. Constant	836 00		
Library Bureau	989 62		
		$7,765 61	$49,402 12
Available Balance Dec. 31, 1910			$51,043 72

LIST OF MEMBERS

PATRONS

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

Edward D. Adams.
John Anderson.*
James Angus.*
Hicks Arnold.*
Richard Arnold.*
William H. Aspinwall.*
John Jacob Astor.*
William Waldorf Astor.
Hugh Auchincloss.*
Benjamin Aymar.*
Mrs. Guy Ellis Baker.
A. H. Barney.*
D. N. Barney.*
James Gordon Bennett.
Frederick Billings.*
Heber R. Bishop.*
George Bliss.*
George T. Bliss.*
Miss Susan Dwight Bliss.
William T. Blodgett.*
Robert Bonner.*
Henry Booth.
M. C. D. Borden.
J. A. Bostwick.*
George S. Bowdoin.
George Dexter Bradford.*
Alex. H. Brown, M.P.
James Brown.*
Miss Matilda W. Bruce.*
Hermon C. Bumpus.
John L. Cadwalader.
Mrs. Carnegie.
Dr. Walter Channing.
Joseph H. Choate.
Edward Clark.*
Jonas G. Clark.*
James B. Colgate.*
Robert Colgate.*
Frederick A. Constable.*
Mrs. Frederick A. Constable.
James M. Constable.*
George C. Cooper.*
Peter Cooper.*
Austin Corbin.*
Alexander I. Cotheal.*
John D. Crimmins.
John J. Crooke.
Cornelius C. Cuyler.*
Thomas De Witt Cuyler.
W. M. Dongan de Peyster.
L. P. di Cesnola.*
A. G. Phelps Dodge.
Cleveland H. Dodge.
William E. Dodge, 1st.*
William E. Dodge, 2d.*
Mrs. William E. Dodge.*
James Douglas.
Andrew E. Douglass.*
Joseph W. Drexel.*
D. G. Elliot.
Mrs. M. Schuyler Elliot.
James R. Ely.
Lieut. G. T. Emmons, U.S.N.
Benjamin H. Field.*
Cyrus W. Field.*
Cyrus W. Field, Jr.*
Prof. Auguste Forel.
Henry C. Frick.
William T. Garner.*
Elbridge T. Gerry.
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Theodore A. Havemeyer.*
George G. Haven.*
George A. Hearn.
Abram S. Hewitt.*
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Mrs. Eugene A. Hoffman.
Samuel V. Hoffman.

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Mrs. C. P. Huntington.
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Adrian Iselin, Jr.
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D. Willis James.*
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Adolph Lewisohn.
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Coleman T. Robinson.*
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John D. Rockefeller, Jr.
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Joel Wolfe Thorne.
Jonathan Thorne.*
Jonathan Thorne.
Miss Phebe Anna Thorne.*
Samuel Thorne.
Victor Corse Thorne.

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Mrs. JOHN B. TREVOR.
Mrs. JOHN B. TREVOR.
C. VANDERBILT.*
GEO. W. VANDERBILT.
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W. D. Nichols.*
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William Niven.
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Mrs. William Church Osborn.
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Seymour Perkins.
W. H. Perkins.
W. R. Peters.
Capt. John J. Phelps.
Henry Phipps.
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Gifford Pinchot
James W. Pinchot.*
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Henry Milford Smith.*
Dr. Hugh M. Smith.
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Miss Clara B. Spence.
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Alex. H. Stevens.
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C. Amory Stevens.
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Adams, Samuel
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Aldrich, Spencer
Alexander, Douglas
Alexander, Harry
Alexander, James W.
Alexander, John F.
Alexandre, J. H.
Allen, Calvin H.
Allen, William H.
Allen, Wm. C.
Allerton, D. D.
Altherr, J. C.
Altschul, C.
Amberg, M. W.
Amend, Edward B.
Amend, Robert F.
Amerman, Wm. L.
Amrom, Bernhard B.
Amy, Ernest J. H.
Amy, L. H.
Anderson, A. J. C.
Anderson, Brig. Gen.
Geo. S., U.S.A.
Anderson, P. Chauncey
Andreini, J. M.
Andrews, W. L.
Appelbaum, Misha E.
Appleton, Daniel
Appleton, W. W.
Arbib, Alexander
Archbold, John D.
Archer, George A.
Arend, F. J.
Arkush, Reuben
Armour, Mrs. H. O.
Arms, George
Armstrong, James
Armstrong, John H.
Asiel, E.
Asten, Mrs. Thomas B.
Atkins, G. W. E.
Auchincloss, Mrs. C. C.
Auchincloss, Hugh
Auchincloss, John W.
Auerbach, Joseph S.
Auerbach,
Mrs. Joseph S.
Auerbach, S. H.
Aufhauser, Samuel
Aycrigg, B. Arthur

Babcock, F. L.
Bacon, Daniel
Bacon, Daniel
Bacon, Edward R.
Bacon,
Marshal Chandler
Bacon, Miss Martha W.
Bacon,
Mrs. W. Rathbone
Bailey, Dr. Pearce
Baker, Frederic
Baker, George F.
Baker, Stephen
Baker, W. E.
Baldwin, Frederick H.
Baldwin, W. D.
Ball, Alwyn, Jr.
Ball, Thomas R.
Ballard, Fred'k E.
Ballin, Gustav N.
Ballin, Jacques
Bangs, F. S.
Bangs, L. Bolton, M.D.
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Mrs. James Lent
Barnes, E. W.
Barnes, Mrs. Harriette S.
Barnes, Henry B.
Barnes, J. Sanford, Jr.
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Barney, Edgar S., Sc.D.
Barr, James I.
Barringer, D. M.
Barron, George D.
Barstow, Geo. E.
Bartlett, Philip G.
Barton, Mrs. F. O.
Bascom, George J.
Bauer, Mrs. Louis
Baugh,
Mrs. Margaret L.
Baumann, Gustav
Baxter, G. S., Jr.
Baxter, M., Jr.
Baylies, Edmund L.
Baylies, Mrs. N. E.
Baylis, Wm.
Bayne, Mrs. Howard
Beach, Walter R.
Beadleston, Alfred N.
Beadleston, Mrs. W. H.
Beal, Wm. R.
Beaman,
Mrs. Charles C.

Beatty, A. Chester
Bechstein, A. C.
Beckhard, Martin
Bedle, J. D.
Beekman, Gerard
Beer, Mrs. J.
Beinecke, B.
Beller, A.
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Mrs. Oliver H. P.
Bendernagel, James F.
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Benedict, E. C.
Benedict, Read
Benjamin, George G.
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Benson, Miss Mary
Bergstresser, C. M.
Bernheim, Mrs. Eli
Bernheim, Isaac J.
Bernheimer,
Mrs. Adolph
Bernheimer, Charles L.
Bernheimer, Simon E.
Berolzheimer, Emil
Berolzheimer, Philip
Bertron, S. R.
Berwind, Edward J.
Bevin, Leander A.
Bezner, F. O.
Bickmore, Albert H.
Biddle, William C.
Bier, Sylvan
Bigelow, Chas. E.
Bigelow, Dr. Wm. S.
Biggs,
Hermann M., M. D.
Bijur, Moses
Bill, Nathan D.
Billings, C. K. G.
Birckhead, Rev. Hugh
Bird, E. D.
Birdsall, Mrs. W. R.
Bishop, H. R.
Bishop, Wm. F.
Bitter, Karl
Blagden, Dexter
Blagden,
Mrs. Samuel P.
Blair, C. Ledyard
Blair, Mrs. C. Ledyard
Blake, Joseph A.
Blatchford,
Mrs. Samuel A.
Bliss, Mrs. Wm. H.
Blodgett, Miss Eleanor
Blodgett, William T.
Bloodgood, Robert F.
Bloss, James O.
Blumenthal, Hugo
Blumgart, Louis
Boas, Emil L.
Boettger, Henry W.
Boissevain, G. L.
Boker, Mrs. Carl F.
Bond, Frank S.
Bonn, William B.
Bonner, G. T.
Bonner, Mrs. Nathalie
Borg, Sidney C.
Bowditch, Charles P.
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Bradley, Wm. H.
Brady, James B.
Bragaw, E. T.
Brainard, Frank
Braine, L. F.
Breunich, Henry
Brewer, Horatio J.
Brewster, Charles O.
Briddon, Dr. Charles K.
Briesen, Arthur v.
Brightman, F. C. M.
Brinckerhoff, Elbert A.
Bristol, John I. D.
Britton, Dr. N. L.
Brokaw, Clifford V.
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Mrs. William
Brookman, Mrs. H. D.
Broughton,
Mrs. Urban H.
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A.B., M.D.
Brower, Chas. De Hart
Brower, Wm. L.
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Brown, Edwin H.
Brown, Franklin Q.
Brown, J. Adams
Brown, Robert I.
Brown, Thatcher M.
Brown, Vernon C.
Brown, Vernon H.
Brown, Wm. Adams
Brown, W. P.
Browne, Dr. Charles
Browning, J. A.
Browning, Wm. H.
Bruggerhof, F. W.
Bruns, Edwin G.
Bryce, William
Buchanan, Wm.
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L. Duncan, M.D.
Bunker, William
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Mrs. Edward M.
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Burr, Winthrop
Burr, Wm. H.
Burroughs, Chas. W.
Bush, D. Fairfax
Bush, W. T.
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Butler, Miss Helen C.
Butler, Howard Russell
Butler, Mrs. P. H.
Butler, Miss Virginia
Butler, Wm. Allen, Jr.
Butterfield, Mrs. Daniel

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Calder, J. F.
Calman, Albert

Calman, Henry L.
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Cammann, H. H.
Cammann, Miss I. M.
Canfield, Frederick A.
Canfield, George F.
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Cardozo, Ernest A.
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Carter, Robert A.
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Casey, Edward P.
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Champollion, André
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Chase, George
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Chubb, Percy
Chubb, S. H.
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Church, Louis P.
Church, Theodore W.
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Clark, W. A.
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Cockran, W. Bourke
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Coffin, Edmund
Coffin, Francis A.
Coffin, I. Sherwood
Coffin, W. E.
Coffin, William S.
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Cogswell, W. B.
Cohen, De Witt Clinton
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Cohn, Dr. Louis
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Collier, Robert J.
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Collins, Miss Ellen
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Condit, Wm. L.
Conklin, Roland R.
Content, Walter
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Cooper, Washington L.
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Crane, Jonathan H.
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Crawford, R. L.
Crawford, Wm.
Crayen, Dr. G. A.
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Cromwell, James W.
Cromwell, Lincoln
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Col. John Schuyler
Crosby, Maunsell S.
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Crossman, Geo. W.

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Walter Gray, M.D.
Cullman, Jos. F.
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Curtis, Warren
Curtis, W. J.
Curtis, Wm. Edmond
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Cutting, W. Bayard
Cuyler,
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Davis, David T.
Davis, Joseph P.
Davison, Alvah
Dazian, Henry
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De Buys, A.
de Coppet, Henry
Deery, John J.
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de Forest, H. W.
de Forest, Robert W.
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Mrs. Robert W.
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Degener, John F., Jr.
Degener, Rudolph
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de Koven, Mrs. Reginald
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Delano, Warren
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Denham, Wm. R.
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Denny, Mrs. Lucy W.
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de Rham, H. Casimir
Despard, Walter D.
De Vinne, Theo. L.
De Witt, George G.
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Dick, J. Henry
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Dickie, E. P.
Diefenthäler, Charles E.
Diestel, Wm.
Dieterich, Chas. F.
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Dillon, John M.
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Dimock, Henry F.
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Dodge, Miss Grace H.
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Doelger, Peter, Jr.
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Dormitzer, Henry
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Douglass, Benjamin, Jr.
Douglass, Mrs. R. Dun
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Downey, John I.
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Draper, Charles D.
Draper, Chas. A.
Drayton, H. C.
Drayton, J. Coleman
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DuBois, Dr. Matthew B.
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Duncan, Stuart
Dunham,
Mrs. George H.
Dunham, H. F.
Dunlap, Mrs. R.
Dunn, Gano
du Pont, Henry F.
Durkee, Eugene W.
Dutcher, William
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Dwight, John E.
Dwight,
Jonathan, Jr., M.D.

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Eaton, Geo. Dummer
Eberhart, Charles
Edgar, Daniel
Edgell, George S.
Edmonds, John W.
Edson, Jarvis B.
Edwards, R. L.
Edwards, Wm. Seymour

Egleston, Melville
Ehrich, Jules S.
Ehrich, Samuel W.
Ehrich, Mrs. Wm. J.
Eilbeck, J. H.
Eilers, Karl
Eilshemius, Henry G.
Eimer, A. O.
Eimer, August
Einstein, I. D.
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Ellis, Wm. D.
Ely, Fredk. G.
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John Henderson, Jr.
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Emery, Charles G.
Emmet, C. Temple
Emmet, Miss Lydia F.
Emmet, Robert Temple
Engle, Robt. H.
Eno, John Chester
Erbsloh, R.
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Evans, Richard
Evans, William T.

Fabbri, Ernesto G.
Fabré, Clarence L.
Fahnestock, H. C.
Faile, Charles V.
Fairbanks, Henry P.
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Fairchild, Charles S.
Fairchild, S. W.
Fargo, James C.
Farish, John B.
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Mrs. Horace P.
Farnsworth, William
Farragut, Loyall
Farrington, Wm. H.
Fatman, Morris
Fearing, George R.
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Fellows, Wm. Gordon
Ferguson, Alfred L.
Ferguson, Mrs. Farquhar
Ferguson, Harry L.
Ferris, Frank A.
Feustman, L. P.
Field, Wm. B. Osgood
Field,
Mrs. Wm. B. Osgood
Fischer, T. Tasso
Fisher, L. G.
Fitz-Simon, Mrs. Wm.
Flagler, Harry Harkness
Fleitmann, H. C.
Flint, Dr. Austin, Jr.
Flint, Chas. R.
Flower, Frederick S.
Floyd, William T.
Floyd-Jones, Edward H.
Fohr, Franz
Follmer, Charles J.
Foot, Miss Katharine
Fordyce, Dr. John A.
Forsyth, Robert
Foster, Edward W.
Foster, J. Hegeman
Foster, Scott
Foster, William
Frankenberg, W. V.
Frankfield, A.
Fraser, Alfred
Fraser, Mrs. George S.
Fraser, Miss J. K.
Freedman, Andrew
French, Daniel C.
French, Mrs. Daniel C.
French, Richmond S.
French, S. A.
Frenkel, Emil
Frew, Walter E.
Fried, Samson
Friedlander, Louis
Fries, Miss Emilie
Fries, Harold H.
Frissell, A. S.
Frye, Jed
Fuld, Felix
Fulda, Clemens, M.D.
Fuller, Mrs. Eugene
Furst, Arnold S.

Gade, W. F.
Gale, Miss Margaret E.
Gallaway, Robert M.
Gannon, F. S.
Gardin, John E.
Gardiner, James T.
Garrett, John W.
Garrett, Robert
Gartland, George E.
Garver, John A.
Gaunt, James
Gawtry, H. E.
Gay, Joseph E.
Geer, Robert C.
Geer, Walter
Gerard, Victor
Gerrish, Frank Scott
Gilbert, Clinton
Gillies, Edwin J.
Gilmore, W. S.
Gladding, J. R.
Glazier, Henry S.
Goadby, W. H.
Goddard, F. N.
Godfrey, Mrs. E. D.
Godkin, Lawrence
Goebel, Lewis S.
Golden, John L.
Goldschmidt, Geo. B.
Goldschmidt, S. A.
Goodchild, John
Goodfriend, Jacob
Goodfriend, Meyer
Goodhue, Chas. E.
Gooding, Ivan L. C.
Gottheil, Paul
Gould, Chas. W.
Gould, Edwin
Gould, Edwin, Jr.
Gould, Miss Helen M.
Gould, Horace S.
Grab, Maximilian

Grace, Mrs. L. A.
Graham, Robert Dun
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Rev. Percy Stickney
Grant, R. Suydam
Graves, Henry, Jr.
Greeff, Bernhard, Jr.
Greeff, Ernest F.
Greene, James W.
Greene, John Arthur
Greenhut, Benedict J.
Greenwood, Isaac J.
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Greer, Rt. Rev. David H.
Greer, Mrs. David H.
Greer, Louis M.
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Gregory, Chas. E.
Gregory, E. C.
Griffin, Mrs. W. P.
Griffith, Edward
Grinnell, E. Morgan
Grinnell, Geo. Bird
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Griswold, Chester
Griswold, Mrs. Chester
Gude, O. J.
Guernsey,
Henry William
Guggenheim, Simon
Guggenheim, William
Guinzburg, A. M.
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Gushee, R. A.
Gutmann, Carl
Gutmann, James

Hague, Arnold
Hague, William
Haines, Charles D.
Hale, Thomas
Hall, Henry J. S.
Hall, Mrs. John H.
Hall, W. H.
Halls, William, Jr.
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Halsey, R. T. H.
Halsted, Miss Mary M.
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Hamburger, Samuel B.
Hamersley,
Miss Catherine L.
Hamersley,
Louis Gordon
Hamilton, Miss E. S.
Hamlen, Dr. Geo. D.
Hammond, James B.
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Mrs. John Henry
Hammond,
Mrs. Ogden H.
Hance, John A.
Handy, Parker D.
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Harbeck, Chas. T.
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Hard, De Courcy L.
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Harriman, Mrs. H. M.
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Hasslacher, Jacob
Havemeyer, H. O., Jr.
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Havemeyer, Mrs. J. C.
Havemeyer, John F.
Havemeyer, T. A.
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Havron, John
Hawk, Wm. S.
Hawkes,
Mrs. McDougall
Hawley, Edwin
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Miss Caroline Coventry
Hazard, F. R.
Hazard, Rowland G.
Hazen, George H.
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Heimann, Julius
Heminway, Homer
Hencken, Hancke
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Hendricks, Harmon W.
Henning, Gustavus C.
Henry, James
Henry, Philip W.
Hepburn, A. B.
Herbert, William
Hermann, Ferdinand
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Hess, Selmar
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Higgins, Francis
Hildebrand, Louis A.
Hilles, Wm. T.
Hills, Dr. Alfred K.
Hilyard, George D.
Hinchman, Walter
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Hirsch, Albert
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Hoag, William N.
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Hobby, J. Oakley
Hochschild, Berthold
Hodenpyl, Anton G.
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Hoe, Alfred G.
Hoe, Geo. E.
Hoe, Richard M.

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Hoe, Mrs. Robert
Hoe, William A.
Hoe, William J.
Hoffman, Joseph E.
Holden, A. F.
Holden, E. R.
Holden, L. E.
Hollenback,
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Holt, Henry
Holt, R. S.
Holter, Mrs. E. O.
Holzmaister, L. V.
Hopkins,
Miss Augusta D.
Hopkins, Russell
Hornblower, Wm. B.
Horr, L. Wm.
Hotchkiss, Henry D.
House, Frederick B.
Howard, Montague
Howell, M. D.
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Hoyt, Gerald L.
Hoyt, Miss Gertrude L.
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Hudson, Percy K.
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Humphreys, Frederic H.
Humphreys, Geo. H.
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Hüpfel, J. Chr. G.
Hurlbut, Theo. D.
Hussey, William H.
Husted, Seymour L., Jr.
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Hyde, E. Francis

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Iselin, Miss Georgine
Iselin, John H.
Iselin, Mrs. William E.
Iselin, Wm. E.
Isham, C. B.
Isham, Samuel

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Jackson, John B.
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Samuel Macauley
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James, Robert C.
James, Mrs. Walter B.
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Jansen, Ed.
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Jarvis, Samuel M.
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Jenkins, George W.
Jennings, Miss A. B.
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Jennings, Philander R.
Jennings, Robt. E.
Jennings, Walter
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Jones, H. Bolton
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Judson, Henry I.
Jungmann, J.

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Kahn, Ulysses S., M.D.
Kahnweiler, William S.
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Kemp, Prof. James F.
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Kidder, Edward H.
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King, Thos. M.
Kingsford, Daniel P.
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Kip, W. Ruloff

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Knapp, Mrs. H. K.
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Kohlman, Chas.
Kohn, Arnold
Kohn, S. H.
Kohn, Theo. A.
Kolb, Gustave F.
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Kudlich, H. C.
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