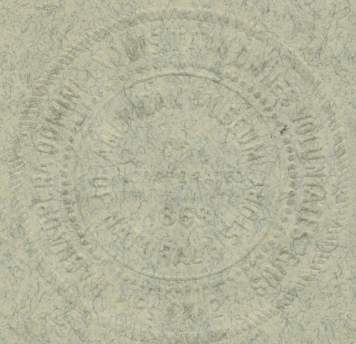


1869

1915

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

FOR THE YEAR 1915



A FREE INSTITUTION  
FOR THE PEOPLE  
FOR EDUCATION  
FOR SCIENCE

NEW YORK

ISSUED FEBRUARY 7, 1916







THE AMERICAN MUSEUM OF  
NATURAL HISTORY

INCORPORATED IN 1869







## MEMBERSHIP AND ENDOWMENT

---

There are nearly thirty-seven hundred members of the Museum, residents of the United States and other countries, who support its educational and scientific work and enjoy its lectures, publications and other privileges.

|                               |   |   |   |   |    |        |
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| Sustaining Members (annually) | . | . | . | . |    | 25     |
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| Fellows                       | . | . | . | . | .  | 500    |
| Patrons                       | . | . | . | . | .  | 1,000  |
| Associate Benefactors         | . | . | . | . | .  | 10,000 |
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The Endowment Fund was established in 1884. The Trustees especially desire to insure the permanent growth and welfare of the Museum through an increase of this fund.

## FORM OF GIFT OR BEQUEST

---

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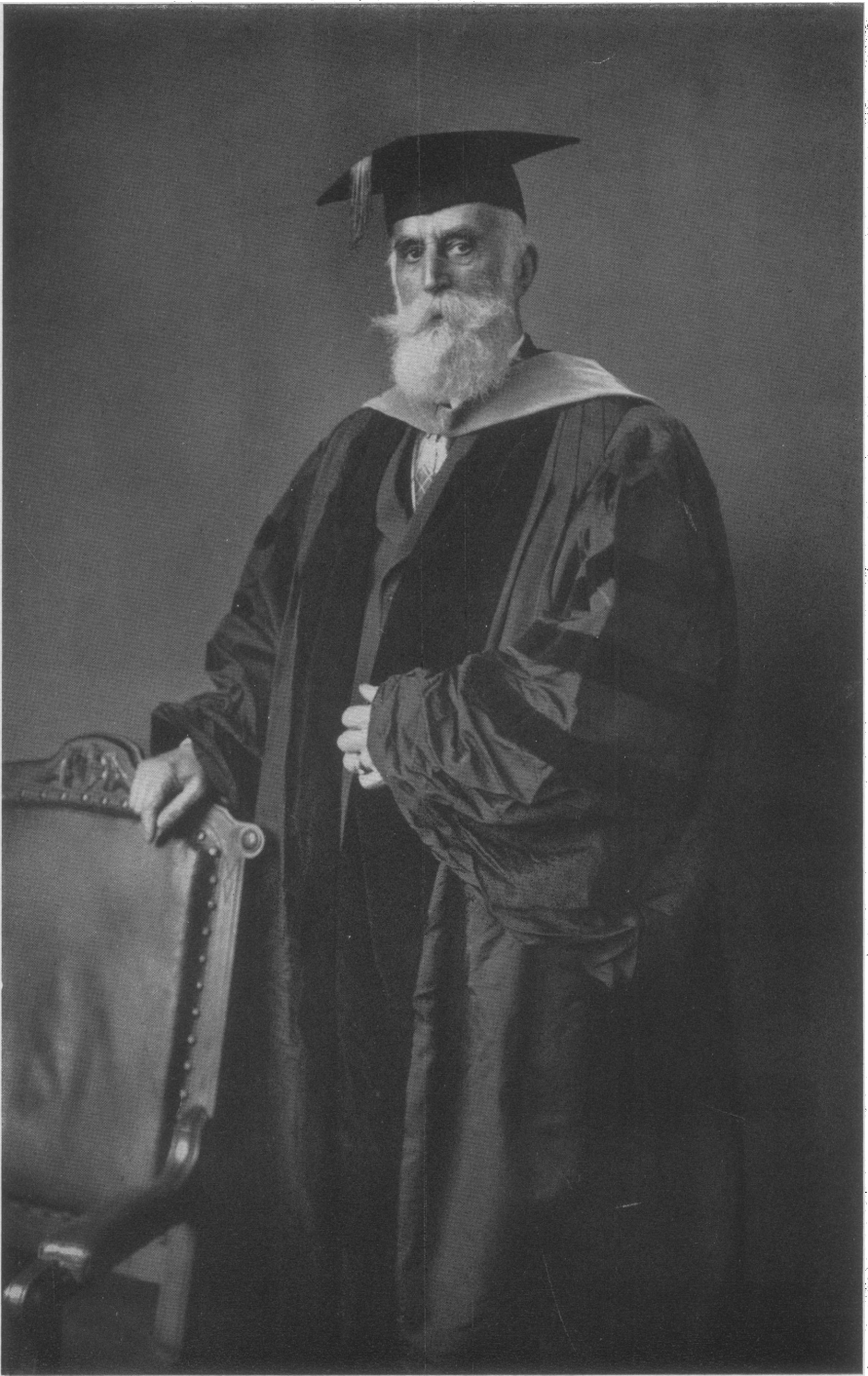


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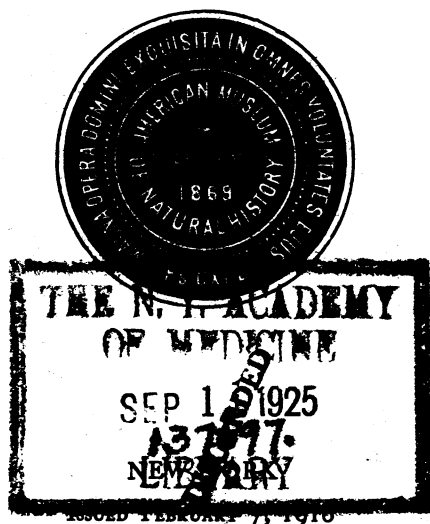
DANIEL GIRAUD ELLIOT  
1835-1915

Adviser and Trustee of the American Museum of Natural History

FORTY-SEVENTH ANNUAL REPORT  
OF  
THE AMERICAN MUSEUM  
OF NATURAL HISTORY  
FOR THE YEAR 1915

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







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FOR 1916

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## **Assistant Secretary**

GEORGE H. SHERWOOD

## **Assistant Treasurer**

UNITED STATES TRUST COMPANY OF NEW YORK

## **Bursar**

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## **Superintendent of Building**

J. B. FOULKE

## **Registrar**

GEORGE N. PINDAR

## **Chief of Construction**

H. F. BEERS

## **Chief Engineer**

H. J. LANGHAM

# SCIENTIFIC STAFF

FOR 1916

---

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FREDERIC A. LUCAS, Sc.D.

## *DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY*

EDMUND OTIS HOVEY, Ph.D., Curator

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

## *DEPARTMENT OF MINERALOGY*

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

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

## *DEPARTMENT OF WOODS AND FORESTRY*

MARY CYNTHIA DICKERSON, B.S., Curator

## *DEPARTMENT OF INVERTEBRATE ZOÖLOGY*

HENRY E. CRAMPTON, Ph.D., Curator

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

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

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

A. J. MUTCHLER, Assistant

FRANK E. WATSON, B.S., Assistant

DANIEL M. FISK, A.M., Assistant

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

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

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

## *DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY*

BASHFORD DEAN, Ph.D., Curator Emeritus

LOUIS HUSSAKOF, Ph.D., Curator of Ichthyology

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

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

## SCIENTIFIC STAFF FOR 1916—*Continued*

---

### *DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY*

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

### *DEPARTMENT OF VERTEBRATE PALÆONTOLOGY*

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

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PLINY E. GODDARD, Ph.D., Curator of Ethnology  
ROBERT H. LOWIE, Ph.D., Associate Curator  
HERBERT J. SPINDEN, Ph.D., Assistant Curator  
NELS C. NELSON, M.L., Assistant Curator  
CHARLES W. MEAD, Assistant Curator  
M. D. C. CRAWFORD, Research Associate in Textiles  
GEORGE BIRD GRINNELL, Ph.D., Research Associate in Ethnology  
J. H. MCGREGOR, Ph.D., Research Associate in Physical Anthropology

### *DEPARTMENT OF ANATOMY AND PHYSIOLOGY*

RALPH W. TOWER, Ph.D., Curator

### *DEPARTMENT OF PUBLIC HEALTH*

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

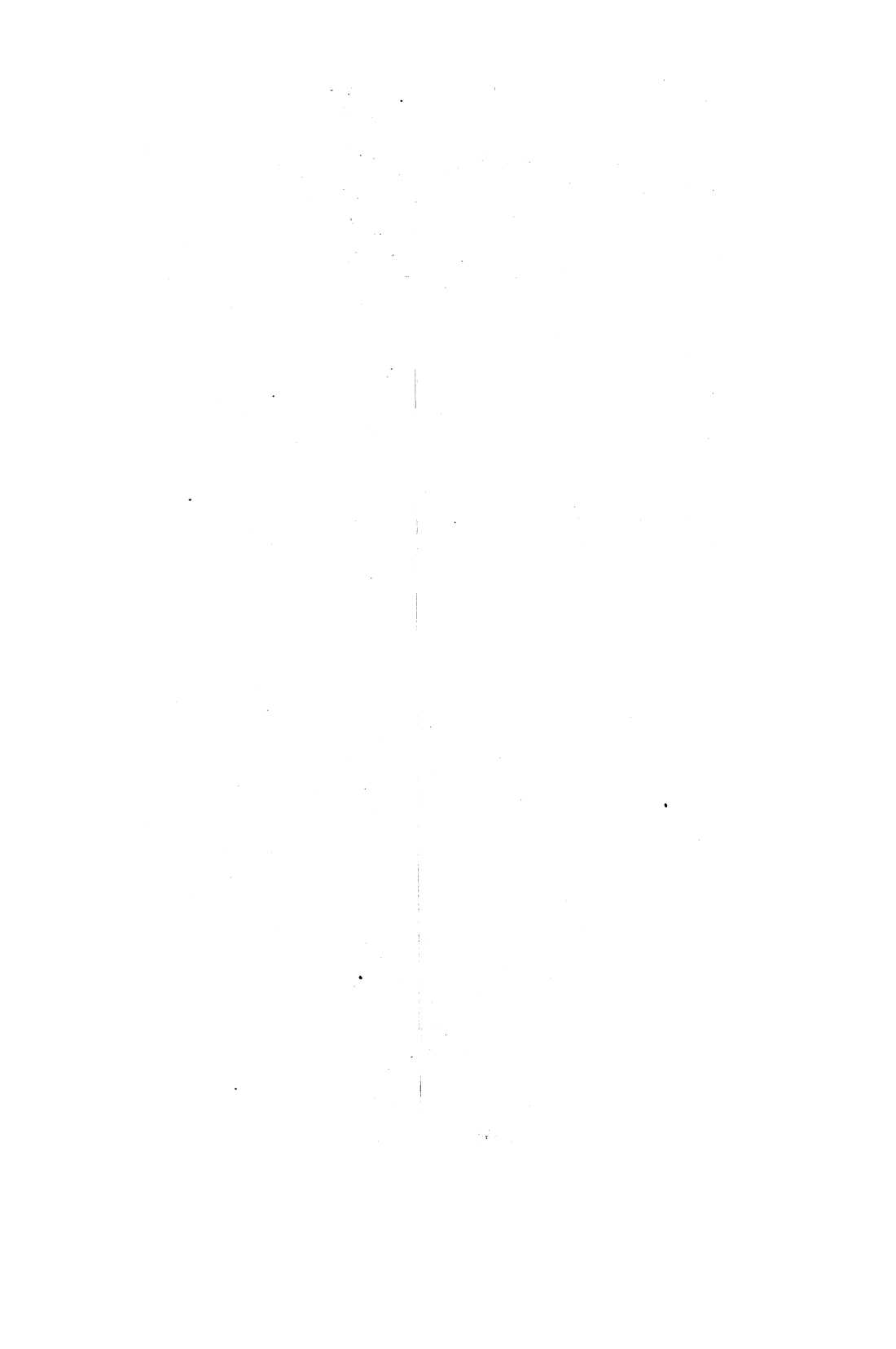
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G. CLYDE FISHER, Ph.D., Assistant Curator  
ANN E. THOMAS, Ph.B., Assistant

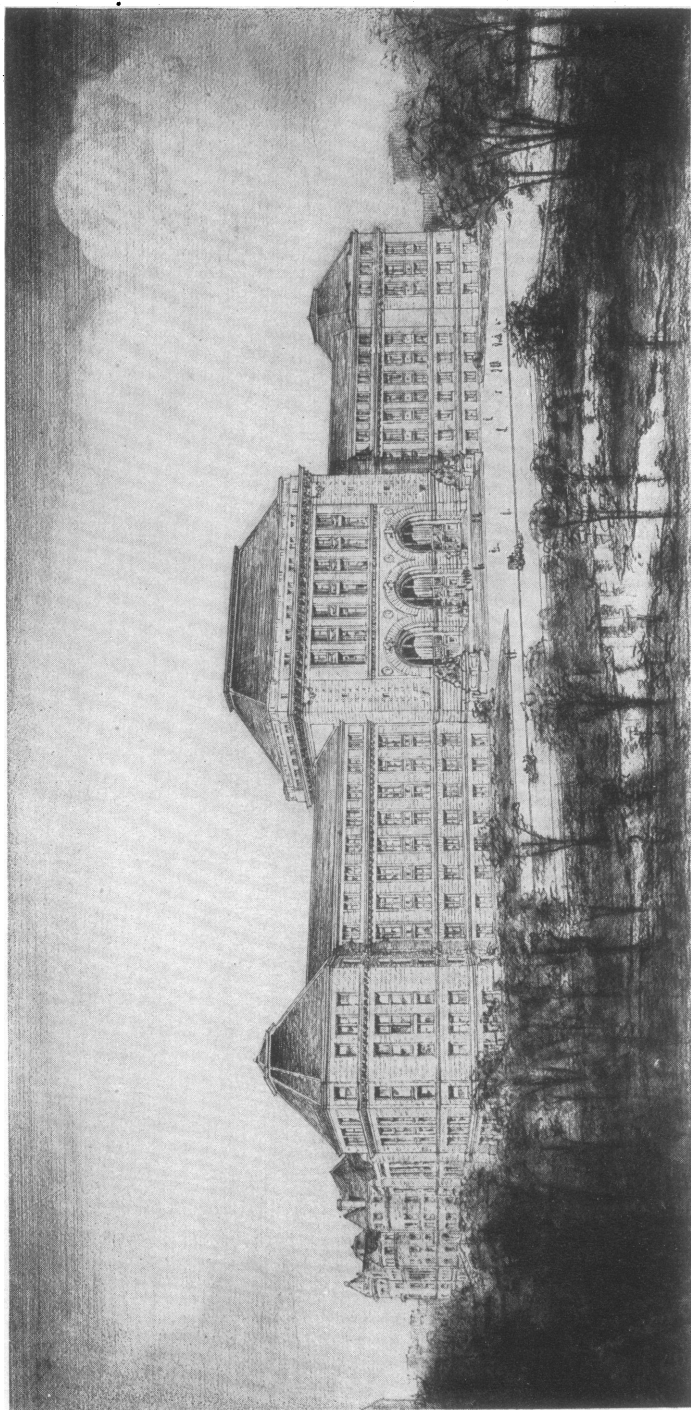
### *DEPARTMENT OF BOOKS AND PUBLICATIONS*

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









PRELIMINARY STUDY FOR THE EAST FAÇADE  
Fifth Design. Trowbridge and Livingston, Architects  
1915

## FORTY-SEVENTH ANNUAL REPORT

---

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

The President has the honor to submit herewith his ninth annual report, in which he directs attention especially to the very urgent need of enlargement of the building, to the unprecedented increase in the public educational work of the Museum, to the growth of the endowment fund, through the Jesup bequest, and to the problems which arise in connection with the scientific exploration and the research work of the institution. The attention of the Trustees and Members is further directed to the very full and interesting reports of the Director, of the Curators of the various scientific departments, of the Secretary and of the Treasurer.

The Museum faces a crisis in its development which is without precedent since the year 1878, when it became apparent that the City was not carrying out its original agreement to maintain the institution. The present crisis is not one of maintenance but of building. In 1878 the Trustees entered into an agreement with the City the substance of which was that the City would erect, equip and maintain the building, while the Trustees would provide the specimens and collections to be contained in the building. The continued support of the Trustees and friends, especially since 1888 when active and world-wide exploration began, has brought together the finest collections in the world, not only of great scientific but of equally great educational value. For many years past the contributions of the City have not been sufficient adequately to house and exhibit this material. No building has been added since the Southwest Wing, which was erected under the law of 1905. In the meantime the collections have doubled in extent, and a number of important new departments of education has been opened with special reference to public needs. The

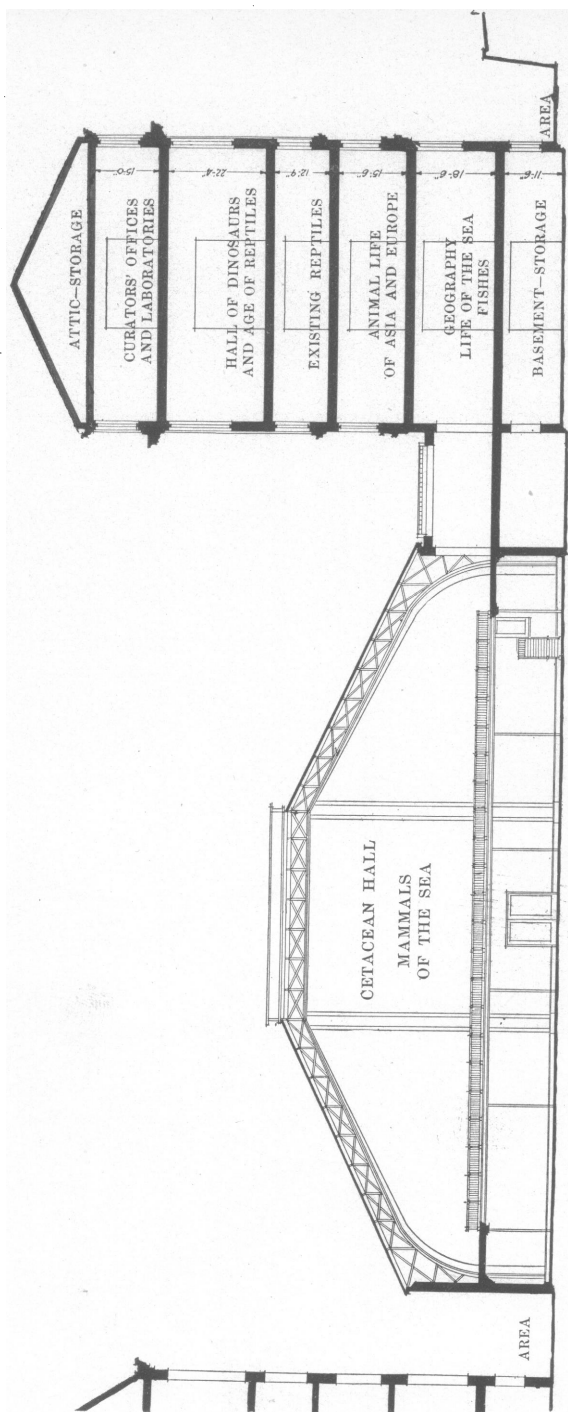
Pressing Need of More  
Building Space

Museum is in the position of a family that has outgrown its home, of a business that has outgrown its offices, of a manufacturing concern that has outgrown its factory building, of a college or university that has outgrown its halls and dormitories. All available space of the present building, from attic to basement, has been utilized and collections have been retired from two large halls, formerly used for exhibition purposes, in order to make provision for the care and preparation of accumulating material. The Museum building is a large one, but it is comparatively small when considered in relation to the largest, wealthiest and most populous city in America, such as New York has now become. As shown in the last *Annual Report*, no city in the United States has public institutions in which so much has been accomplished at so little cost to the municipality.

The most imperative need is the erection of the Southeast Wing and Court Building, at an estimated cost of \$750,000. Plans of this building are published herewith. The need for this building has become so pressing that it raises the question as to whether it will not be wise to endeavor to provide such a building through private subscription. There is some doubt in the minds of the Trustees whether this may not establish an undesirable precedent. In other words, whether the donation of a building would not lead to the relieving of the people of the City of New York of their share of the responsibility and of their participation in the agreement of 1878, and which up to recent years the City has loyally observed.

The inactive balance of \$111,808.77 of the fund which was voted in 1911 toward the construction of the new Southeast Wing and Court Building has been finally transferred to an Equipment Fund by the Board of Estimate and Apportionment for purposes of case construction and equipment for the present building. This transfer was recommended by the Comptroller and officially approved by the signature of Mayor Mitchel. The matter of case construction and equipment had become as acute as is now the question of new building.





EAST AND WEST SECTION, THROUGH NEW SOUTHEAST WING AND SOUTHEAST COURT BUILDING  
Trowbridge and Livingston, Architects

During the past year also the valuable precedent was established of providing by tax levy the sum of \$15,657 for 1916, to complete certain very necessary repairs and alterations in the building, which, because of insufficient funds, have been deferred from year to year, this upon the "pay-as-you-go" principle recently adopted by the City, which takes the place of the previous uneconomic practice of meeting the expense of repairs partly out of special revenue bonds. Inasmuch as the legal maintenance expenditures of the Museum exceed by more than \$57,000 the amount of \$200,000 which has been appropriated annually for the past three years, a bill was introduced into the Legislature, in joint action with the Metropolitan Museum of Art, removing the limitation to the amount of maintenance and leaving to the discretion of the Board of Estimate and Apportionment the maximum sum that might be appropriated.\* For the year 1916 the Trustees recommended a maintenance appropriation of \$225,000, and after a searching examination of the business administration of the Museum by representatives of the Board of Estimate, an appropriation of \$212,999 was made, which includes the \$15,657 allowed for repairs mentioned above.

It is very difficult to plan the ideal museum building, to meet all the modern requirements of lighting adequate for exhibition and yet non-destructive of the delicate hues and tints of the animals exhibited; of heating and air circulation which avoid the extremes of humidity and desiccation fatal to specimens of many kinds; of ventilation adequate for large numbers of visitors and yet free from dust; of casing and installation which shall protect and yet be unobtrusive; of arrangement which shall educate and be easy of comprehension. To meet all these requirements in the new buildings which shall be erected in the near or remote future, the President, the Director and the Architects have been continuously engaged on studies for the entire unfinished portions of the southern half of the Museum which

\*Laws of New York, 1915, Chapter 312: "An Act to amend chapter two hundred and ninety-two of the laws of nineteen hundred and five, entitled 'An act to authorize a further appropriation for the maintenance of the American museum of natural history in the Central park of the city of New York,' generally." Became a law April 14, 1915, with the approval of the Governor. See page 155.



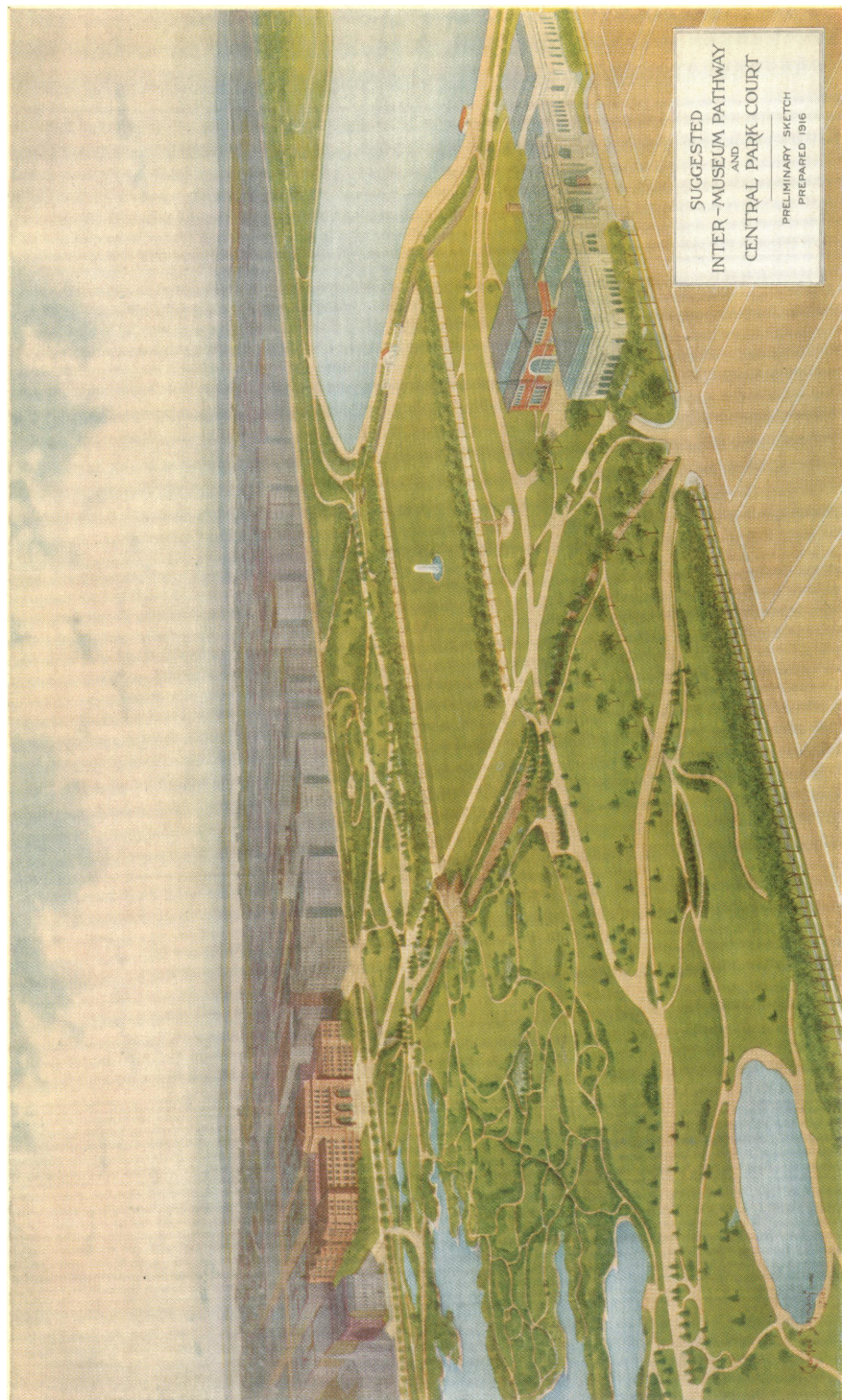
may be erected at an expenditure of between \$5,000,000 and \$6,000,000 when the means are provided.

First attention has been given to the new Southeast Wing and Court Building, the ground plans of which are presented herewith, together with the proposed arrangement of the collections therein. This is the most imperative and pressing need of the American Museum at the present moment. These buildings will provide storage room; space for our large oceanographic and mammals-of-the-sea collections on the first floor; space for the animal life of Asia and Europe on the second floor; space for the superb collections of existing fishes and reptiles on the third floor, which are now crowded into the central pavilion and the adjacent gallery on the second floor, in the dark and out of sight; space for all life of the American continent prior to the Upper Cretaceous on the fourth floor, and offices, laboratories and storage room for the more delicate collections, on the fifth floor. It is believed that the plan of this building, which is the result of four years' continuous study, will make the most perfect museum unit of its kind in the world at the present time. The exterior is in excellent taste. The Southeast Court is also gracefully designed and will make possible for the first time the exhibition of the superb collection of whales presented by the late George S. Bowdoin and others. The President cannot urge too strongly upon the Trustees and Members of the Museum the desirability of the gift of this building as a splendid monument to public education and a lasting memorial of the present period of museum development in the world. A special folder was issued July 1, 1915, describing the plans of this building.

A plan of very great importance for the future scientific and artistic development of the City of New York was suggested to the President some years ago by a member of our Board, whose name is withheld. It is the utilization of the great space in Central Park to be left vacant by the removal of the south Croton reservoir. This plan has been studied in an informal manner and in a preliminary way with the approval and coöperation of the present Commissioner of

Approaches from  
the Eastern Side  
of the City





Preliminary study for the development for park purposes of the space now occupied by the reservoir in Central Park,  
as suggested by President Osborn on page 18 of his Annual Report for 1915

Parks, the Honorable Cabot Ward. The idea is not to bring forward at the present time a formal project, but to show how it is possible to provide for the people the greatly desired western and eastern accesses to the Metropolitan and American Museums; secondly, to show how the City has an opportunity of providing, in spaces at present wholly inaccessible to the public and unutilized for park purposes, a central court or plaza whereon it may be possible to develop certain artistic, musical and recreational influences in the open air, for which there is no space at present provided in our entire Park System. We have playgrounds, baseball and tennis fields, polo and golf fields a plenty, but no space for musical, artistic, historical or other educational celebrations and fêtes such as should be provided for within our Parks; nor is there any adequate plaza for public music. The sketch plan published with this number of the Museum Report is an indication of what may be done. This or some similar plan, which should be prepared under the direction of the Department of Parks and the Municipal Art Commission, will provide for the free circulation of people to our two great Museums and it will provide, not in Park land but directly over the transverse subway extending east and west at Eighty-sixth Street, for an art and educational exhibition building, which will also serve on the south façade as a platform for open-air concerts and fêtes. The broad level space, now occupied by the reservoir, may either be developed as a garden with fountains, or as a sunken area with encircling stone seats,—an amphitheatre with proportions adequate for such historical presentations as that planned for the Shakespeare Tercentenary.

## EXPLORATION AND RESEARCH

Through gifts from the Trustees and friends of the Museum, amounting all together to \$62,964.20, and through the interest of \$117,473.44 received from the Morris K. Jesup Endowment Fund, the Museum has been able to accomplish more than in any previous year toward bringing the results of exploration and discovery in all parts of the world to the schools and to the non-traveling public of this

great city. The influence and inspiration of this scientific work are spread through the daily press, which everywhere is disposed to treat the work of the Museum more carefully and seriously, also through lectures and circulating collections to more than a million school children, and through the displays in the exhibition halls, which during the past year attracted nearly one million visitors.

The activities of our field parties, under the leadership of members of our able and courageous exploring staff, extended to three of the great continents. In all there were twenty-one field parties at work: one in Africa, two in South America and eighteen in North America.

#### AFRICA

First in importance is the Congo Expedition which under the leadership of Messrs. Lang and Chapin has been brought to a successful conclusion. This expedition has been operating for more than six years in the Belgian Congo, and has secured important and valuable collections of mammals, birds, reptiles, fishes and invertebrates, as well as anthropological material. The entire collection comprises more than 20,000 vertebrates and more than 65,000 invertebrates. The descriptive catalogue exceeds 3,500 pages, and other scientific data include 7,000 photographs which have been provided by Mr. Lang personally. While the expedition enjoyed the hearty support of the Belgian government and of all the Belgian officials, its remarkable success is due in large measure to the very efficient management and painstaking work of Mr. Lang and Mr. Chapin.

#### SOUTH AMERICA

The ornithological survey of the Andean region of South America, in which the Museum has been intensively engaged during the past three years, has been continued through the contributions of Colonel Theodore Roosevelt and Mr. Cleveland H. Dodge. Working under this grant, Mr. Leo E. Miller and Mr. Howarth S. Boyle have made important collections in Colombia and Bolivia, which have added nearly 2,000

specimens of birds and mammals to the Museum's collections, and they have also secured important scientific data. The second Roosevelt expedition will be sent out during the current year, under the direction of Mr. George K. Cherrie. Mr. Cherrie will collect in the marshes of the Paraguay.

The expedition to South America, organized and financed by Mr. Alfred M. Collins and Mr. Lee Garnett Day, crossed South America through Bolivia and came down the Amazon. They were accompanied by Mr. George K. Cherrie as the Museum's representative, and Messrs. Collins and Day have presented to the Museum the results of their work, which comprise about 550 birds and 100 mammals.

Collins-Day  
South-American  
Expedition

#### NORTH AMERICA

The ancient history of the vertebrate life of North America is being followed along the lines of the plan projected by Curator Osborn in 1891, of securing for the Museum a complete representation of the life of the Age of Amphibians, of the Age of Reptiles, of the Age of Mammals and finally of the Age of Man. A separate exhibition hall ultimately will be devoted to each of these periods, carrying the visitor back step by step through the long and extraordinary stages of past American history. One period after another is being successively explored until it gives up all its representative forms. In 1891 began our explorations of the Eocene, or first period of the Age of Mammals, which have been continued from year to year without interruption, so that the Museum now possesses by far the most complete Eocene history of North America in existence. Later chapters in the Age of Mammals and earlier chapters in the Age of Reptiles have been successfully explored, especially since 1909, during which time Mr. Barnum Brown has been engaged in the exploration of the remarkable dinosaur life of the Upper Cretaceous or closing period of the Age of Reptiles in northern Montana and along

Ancient Life  
of the Continent



the Red Deer River in Alberta, Canada, where complete skeletons of each type of these dinosaurs have been found, *Palaeoscincus*, the very latest representative, which long eluded our explorer, having been discovered last summer.

Following the very important work of Professor Putnam and Professor Boas in the development of the anthropological department, the present Curator, Dr. Clark Wissler, projected a series of systematic explorations beginning in the year 1905, when he was called to the head of the department. The staff has grown from three in number to its present strength. Curator Wissler leads in the general direction of the work; Curator Goddard in North American ethnology; Associate Curator Lowie in American, African and Asiatic ethnology; Assistant Curator Herbert J. Spinden in the archæology of Mexico and Central America; Mr. Nels C. Nelson in the Indian archæology of North America; Mr. Charles W. Mead in Peruvian archæology, and Mr. Alanson Skinner in the archæology and ethnology especially of the eastern regions of the United States. These men were chosen particularly for their respective abilities in certain fields to contribute to a coördinated plan of North and South American research. During the past ten years the Museum has added 75,000 specimens, including North and South American, Philippine and African collections. The field research has been devoted to an intensive study of the customs and traditions of the Indians of the Plains. Twenty-three separate tribes have been studied in the field, especially by Messrs. Goddard and Lowie. The material culture, the sun dance and the ritualistic ceremonies have been carefully investigated and photographs as well as moving pictures obtained.

In 1909 Mr. Archer M. Huntington began his support of the extension of the work in the Southwest, in the region immediately contiguous to that of the Great Plains, where was commenced a survey of the tribes of the Rio Grande and of their past history, and a study of the Apache, the Hopi and Zuñi, the results of which are shown in the remarkable

collections and the Indian habitat groups in the Hall of the Indians of the Southwest. The researches of Doctor Spinden on the pueblos of the Rio Grande, of Mr. Nelson on the ruins of Galisteo, and of Doctor Goddard on the Apache are establishing very exact standards of the history of this region. Professor A. L. Kroeber of the University of California has been making a special study of the clan and family relations among the Zuñi.

In the Plains we have Rev. G. L. Wilson's volume on the Mandan-Hidatsa; Doctor Lowie's on the Shoshone, and Mr. James R. Murie's on the Pawnee.

One of the most important problems is the date of man's arrival in North America. This is being especially investigated by Dr. Chester A. Reeds and Mr. Leslie Spier in the glacial deposits of the Delaware valley, made famous through the prior explorations of Messrs. Putnam, Abbott and Volk.

The significant feature of all this anthropological research is that it brings together for the Museum a synthesis of the entire history of Indian life in North America, which, enriched by the Jesup North Pacific researches, still continued under the direction of Professor Boas, will finally afford material for a great historic treatment of the Indians of North America as a whole.

Of the *Anthropological Papers* reporting these results, seventeen volumes are now published or under way.

The biological survey of Porto Rico, undertaken in coöperation with the New York Academy of Sciences and the Insular Government, has been carried on actively by several members of the Museum's staff, namely, Dr. H. E. Crampton, Dr. F. E. Lutz, Mr. R. W. Miner, Mr. A. J. Mutchler, Dr. Chester A. Reeds and Professor A. L. Treadwell. Under the present arrangements, the specimens secured are presented to the Museum. The scientific results are to be published by the New York Academy of Sciences.

Through the courtesy of Mr. B. Preston Clark of Boston, who financed the expedition, Mr. F. E. Watson of the Department of Invertebrate Zoölogy was sent to Santo Domingo to collect insects, especially sphingid moths. Mr. Watson was accompanied by Mr. Clarence R. Halter, who made a collection of reptiles of Santo Domingo, numbering 444 specimens. The work of this expedition was greatly facilitated by the generous coöperation of the officers of the Ferro-carril de Samaná y Santiago.

Messrs. Anthony and Ball, of the Museum's staff, spent three months in eastern Panama, collecting mammals and birds from the little-known region of Tacarcuna.

Through the Angelo Heilprin Exploring Fund, donated by Mr. and Mrs. Paul J. Sachs, the Museum was enabled to send Dr. E. O. Hovey to the West Indies to continue his studies of the volcanoes of that region. He spent three months on the islands, returning to New York on May 4, 1915. Doctor Hovey's report has not been completed, owing to the fact that he has not yet returned from the Crocker Land Relief Expedition, of which he was placed in charge.

#### ARCTIC

The return of the Crocker Land Expedition, which was organized by the American Museum of Natural History, the American Geographical Society and the University of Illinois, has been delayed for another year, because the relief ship sent for the party has been caught in the ice on the Greenland coast and will be obliged to winter there. The relief expedition is in charge of Dr. E. O. Hovey and it is now certain that neither the main expedition nor the relief expedition can come out until the summer of 1916.

#### SCIENTIFIC PUBLICATIONS

During the past year the sum of \$19,000 has been spent in publication, technical and popular. It is proposed to increase

our publication through the new resources of the Jesup Endowment. The immediate return from our publications is through exchange with upwards of 400 institutions in this country and abroad, resulting in the continuous enrichment of the Museum library and the constant addition to it of the latest researches cognate to our own in all parts of the world. The second return from publication, while less immediately evident, is still more important. The results of the work of members of our scientific staff are shown in numerous illustrations and figures. Photographic plates brought back from the field are copied or reproduced not only in all our American newspapers and magazines, but in scientific text-books in all languages. Thus in South America, England, France, Germany, Austria, Russia and Japan, one may find the text-books of recent years, especially on the subjects of zoölogy and vertebrate palæontology, drawing on illustrations from American Museum sources. British and French periodicals frequently reproduce our work. The modern *Handwörterbuch der Naturwissenschaften*, the latest encyclopedia of natural science, derives nearly half its illustrations in palæontology from American Museum sources. Our technical scientific illustrations also are freely distributed to makers of school, college and university text-books, as well as to serious scientific organizations such as the United States Geological Survey. The four handbooks of the geology of western North America, published by the Survey in connection with the Panama-Pacific Exposition, have spread our illustrations to thousands of travelers all over our western highways. Thus we are not only concerned with the discovery of truth but of its dissemination as widely as possible. Of the 32,000 negatives in our Department of Public Education, the right of reproduction is extended to all authors, with the proviso that due credit shall be given to the American Museum therefor.

#### UNPUBLISHED RESULTS OF EXPLORATION

The long and very disappointing delay in publishing the results of the exploration organized in 1901, under the East Asiatic Committee, by President Jesup and Mr. Jacob H.

Schiff, is an example of the difficulties that beset the publication of certain of our most important and interesting enterprises. Mr. Schiff donated the sum of \$18,000 to the making of collections and investigations in China, which was supplemented by contributions to the extent of \$6,850 by Messrs. Edward D. Adams, Cornelius N. Bliss, Henry C. Frick, Edward H. Harriman, George A. Hearn, Morris K. Jesup, Clarence H. Mackay, J. Henry Smith and Samuel Thorne. The work was entrusted to Dr. Berthold Laufer, who went to China in September of 1901 and remained there nearly three years, returning in October, 1904, and bringing back superb collections of antique pottery and bronzes, also new and precious information regarding ancient Chinese and Mongolian inscriptions, ancient paintings, popular amusements, modern industries, and ancient and modern art. It was decided to prepare for immediate publication the "Shadow and Puppet Plays," the "Iconography of Confucianism," "Household Pottery," and the precious "Metal Mirrors" of ancient bronze. Of this splendid program, the completion of which would have been so gratifying to the benefactors of this expedition, only a fraction has been carried out, namely, the memoir of Doctor Laufer on the pottery of the Han Period.\* The ancient metal mirrors, the collection of ancient bronze vessels and the ancient bas-reliefs of the Han Period all remain unpublished. Unfortunately for the American Museum, Doctor Laufer was called to the Field Museum of Natural History in Chicago in 1907 and has now been made Curator of Anthropology, so that the carrying out of any portion of the original publication plan, which represented the results of the expenditure of \$24,850, is made very difficult. At the same time it may be mentioned that the Director and certain of the Trustees of the Metropolitan Museum of Art have made overtures to the American Museum for the transfer of portions of our Chinese collections to the Art Museum. In this connection acknowledgment should be made to the Metropolitan Museum of Art for collections representing the archæology of Mexico and Peru, which form welcome additions to our Mexican and Peruvian Halls.

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\* "Chinese Pottery of the Han Dynasty." Published at Leiden, 1909.

Non-publication, partly because of lack of funds, has also been the fate of many other expeditions, so that one of the most pressing obligations which now rest upon the Trustees and members of our Scientific Staff is the pushing forward of reports on explorations which have cost the Museum a great deal of money and for which we should secure not only the results which appear in our exhibition halls, but the scientific results which, through publication, shall reach and influence a wider public. A few instances may be mentioned. The explorations in Peru of Dr. A. F. Bandelier, in 1892 and 1896, supported by Mr. Henry Villard, have not yet been published, and the unfortunate death of Doctor Bandelier renders the publication of the results of his investigations very unlikely. The results of the explorations of Professor Marshall H. Saville in Mexico in 1897-1898, and of Mr. B. T. B. Hyde and Dr. F. E. Hyde, at Pueblo Bonito, New Mexico, 1897-1898, have never been published. The Report of the "Albatross" Expedition, under Dr. Charles H. Townsend, to Lower California in the year 1911, supported by Mr. Arthur Curtiss James, is still incomplete. The various journeys of Mr. Roy C. Andrews in Alaska, Japan and Korea, after Cetacea, are either partially reported or in press. The observations of Mr. Carl E. Akeley, when on a trip to Africa for elephants and other mammals during the year 1911, still await scientific publication. To forestall a similar delay regarding our Congo exploration, it is proposed to begin immediately the publication of the results obtained and of the observations made by Messrs. Lang and Chapin during the years 1909 to 1915 in the Belgian Congo region; first, in the form of a popular volume on the natural history of the Congo; second, a succession of bulletins on the scientific results of the expedition, to be divided among various specialists; third, a series of memoirs on the mammals, birds, reptiles, fishes, insects, etc., of this vast and little-known region.

## ENDOWMENT AND BEQUESTS

The Executor of the estate of Mrs. Morris K. Jesup has made a first payment of \$2,750,000 on account of the Morris K. Jesup Fund of \$5,000,000. The interest on this sum added \$66,485.50 to the income of the Museum in 1915. Another instalment of the bequest will be paid as soon as the executor can profitably dispose of certain properties or securities of the estate.

The total income of the Morris K. Jesup Fund for the year 1915 was \$117,473.44, a sum which has made possible the continuation of important researches and explorations, the acquisition of valuable collections and the immediate publication of scientific papers deferred through lack of funds. The application of the Jesup Fund is restricted to the scientific work of the institution, and in assigning it the Trustees have been guided by the well-known wishes of Mr. Jesup. The following are some of the principal purposes to which the Jesup Fund was applied in 1915:

The enrichment of the collections in practically all departments of the Museum, including:

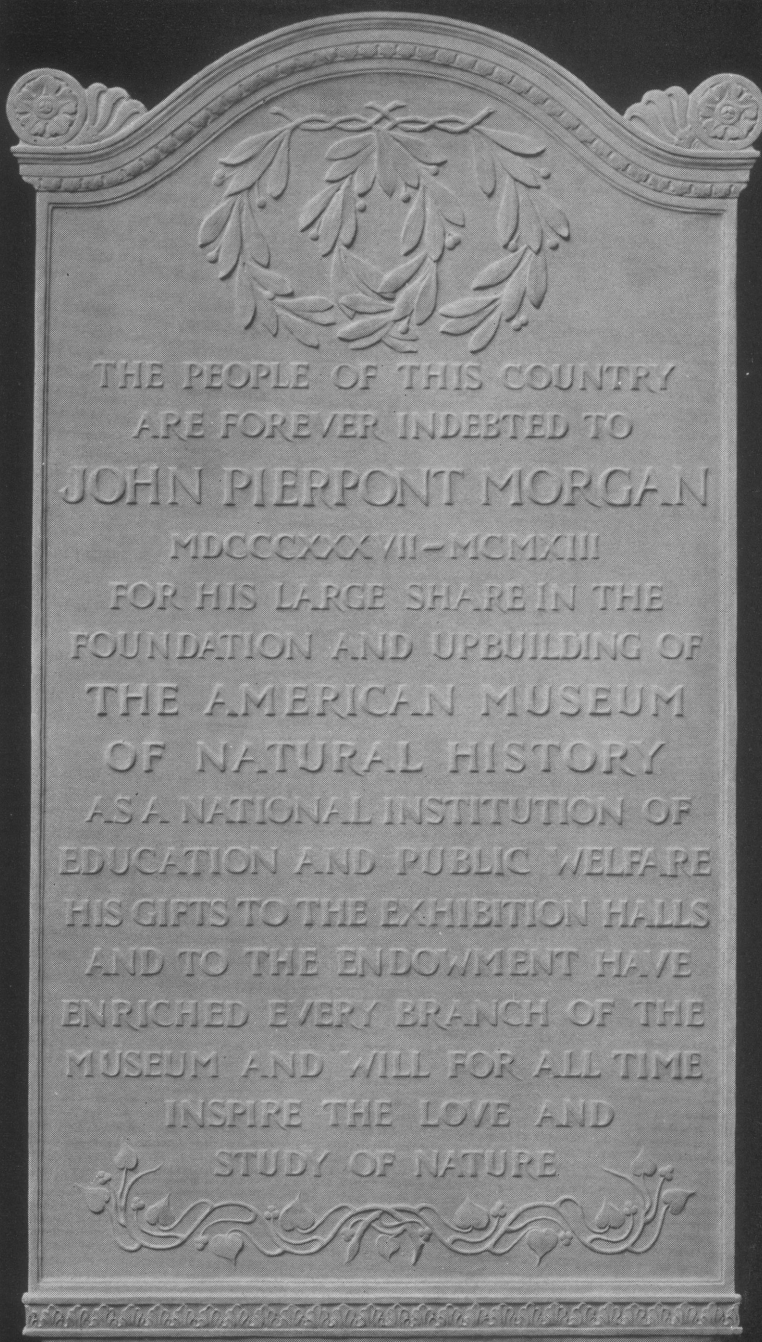
- Groups of Bear, Mountain Sheep and other North American Mammals
- Additions to the Collection of Minerals and Gems
- Ethnological Collections from the South Sea Islands
- Ethnological Collections from the Pawnee Indians
- Two Mural Paintings for the Northwest Coast Hall by Mr. Will S. Taylor
- Marajo Pottery Collection from Brazil
- Two large Mural Studies for Indians of the Plains Hall, by Mr. Edwin W. Deming
- Two Mammal Groups in the North American Faunal Hall
- Shore-life Group and Nahant Tide Pool Group in progress in the Darwin Hall
- Additions to the Collections of Insects

## Exploration

- Completion of the six years' expedition to the Congo under Messrs. Lang and Chapin
- Completion of the six years' exploration on the Red Deer River, Alberta, for Dinosaurs
- Panama Isthmian Exploration for Birds and Mammals
- Expedition to Florida for the Alligator-Crocodile Group
- Biological Expeditions to Porto Rico for Collections of Invertebrates
- Addition of 3,636 Books and Serials to the Museum Library
- Continuation of the *Bulletin*, *Memoirs* and *Anthropological Papers*







MEMORIAL TABLET TO MR. J. PIERPONT MORGAN

Designed by Miss Evelyn Beatrice Longman  
Presented to the Museum by the Trustees

Completion of Professor Osborn's *Men of the Old Stone Age*,  
through the Osborn Research and Publication Fund  
Continuation of the *Bibliography of Fishes*, through Professor  
Dean's Research and Publication Fund

Next to the gift of \$300,000 to the Endowment Fund by Mr. J. Pierpont Morgan in 1904, and to the large gifts and bequests of Mr. and Mrs. Morris K. Jesup, the most important addition ever made to the General Endowment of the Museum is the bequest of Mr. Amos F. Eno of \$250,000. Mr. Eno, who died on October 21, 1915, had been a Life Member of the Museum for ten years, and an Annual Member previous to this. His generous bequest is significant, first because it is made at a time when there is a general impression that because of the munificent Jesup Bequest of \$5,000,000 the Museum is not in need of further endowment, and second because it is a contribution to the General Endowment, the income of which is unrestricted. The Jesup Fund provides liberally for the scientific growth, but the internal development of the Museum is dependent largely on the General Endowment, which is still altogether too small for current needs.

The following is a list of the bequests and gifts that have been made to the General Endowment since the foundation of the fund in 1884:

CONTRIBUTIONS TO THE GENERAL ENDOWMENT FUND  
1884-1915

*Bequests*

|                                      |              |              |
|--------------------------------------|--------------|--------------|
| Estate of Darius Ogden Mills.....    | \$100,000.00 |              |
| Estate of Wm. H. Vanderbilt .....    | 50,000.00    |              |
| Estate of Charles E. Tilford .....   | 25,070.37    |              |
| Estate of Oswald Ottendorfer .....   | 25,000.00    |              |
| Estate of Benjamin P. Davis.....     | 22,799.25    |              |
| Estate of Percy R. Pyne, 1st.....    | 20,000.00    |              |
| Estate of Hugh Auchincloss .....     | 10,223.56    |              |
| Estate of Wm. R. Sands.....          | 10,000.00    |              |
| Estate of Henry Iden .....           | 10,000.00    |              |
| Estate of Wm. E. Dodge, 1st.....     | 5,000.00     |              |
| Estate of Miss S. M. Hitchcock.....  | 5,000.00     |              |
| Estate of Henry Villard .....        | 5,000.00     |              |
| Estate of Solomon Loeb.....          | 5,000.00     |              |
| Estate of Frederika Gade.....        | 4,956.72     |              |
| Estate of Samuel D. Babcock .....    | 4,762.50     |              |
| Estate of Joel Goldenberg .....      | 1,900.00     |              |
| Estate of Mary E. Rogers .....       | 1,000.00     |              |
| Estate of Edward S. Russ .....       | 1,000.00     |              |
| Estate of Leonidas A. Van Praag..... | 500.00       | \$307,212.40 |

*Gifts of Securities*

|                         |              |              |
|-------------------------|--------------|--------------|
| J. Pierpont Morgan..... | \$300,000.00 |              |
| Morris K. Jesup .....   | 200,000.00   |              |
| C. P. Huntington.....   | 5,000.00     |              |
| George S. Bowdoin ..... | 5,000.00     | \$510,000.00 |

*Gifts of Cash*

|                                 |             |            |
|---------------------------------|-------------|------------|
| Mrs. Mary L. Stuart.....        | \$50,000.00 |            |
| Mrs. John B. Trevor.....        | 30,098.90   |            |
| Percy R. Pyne, 1st .....        | 25,000.00   |            |
| Darius Ogden Mills.....         | 25,000.00   |            |
| Cornelius Vanderbilt, 1st ..... | 25,000.00   |            |
| James M. Constable.....         | 25,000.00   |            |
| J. Pierpont Morgan.....         | 25,000.00   |            |
| Morris K. Jesup.....            | 25,000.00   |            |
| H. O. Havemeyer .....           | 25,000.00   |            |
| Wm. E. Dodge, 2d .....          | 10,000.00   |            |
| Mrs. Martha T. Fiske.....       | 10,000.00   |            |
| William Rockefeller.....        | 10,000.00   |            |
| Phebe Anna Thorne.....          | 5,000.00    |            |
| Oswald Ottendorfer.....         | 5,000.00    |            |
| D. Willis James .....           | 5,000.00    |            |
| Wm. C. Schermerhorn.....        | 5,000.00    |            |
| Charles G. Landon.....          | 5,000.00    |            |
| Mrs. Anna B. Bliss .....        | 5,000.00    |            |
| Charles Lanier.....             | 4,500.00    |            |
| Percy R. Pyne, 2d.....          | 2,500.00    |            |
| Frederick A. Constable.....     | 2,000.00    | 324,098.90 |

|                              |  |                       |
|------------------------------|--|-----------------------|
| <i>Membership Fees</i> ..... |  | 43,500.00             |
|                              |  | <u>\$1,184,811.30</u> |

The Museum is indebted to friends for several important gifts, which have materially enriched our collections. Among these may be mentioned an especially fine series of textiles from Ica, Peru, presented by Mr. A. D. Juilliard; an ethnological collection from South Africa, provided through a gift "In Memory of Mrs. Samuel Lawrence"; a restoration of the extinct Dodo, presented by Mr. Walter Winans; 604 birds and 50 mammals from Brazil, the gift of the State of Pará, through Dr. Emilie Snethlage, Director of the Museu Goeldi at Pará; 550 birds and 100 mammals, presented by Mr. Alfred M. Collins and Mr. Lee Garnett Day; important additions to the collections of mammals and birds, presented by the New York Zoölogical Society; mold of a seventeen-foot devil-fish, presented by Mr. Russell J. Coles; white rhinoceros, presented by Mr. John H. Prentice; 12,000 moths, presented by Mr. W. D. Kearfott; 12,000 insect

specimens from the Dominican Republic, presented by Mr. B. Preston Clark; set of 9 volumes of Lord Kingsborough's work, "Antiquities of Mexico," presented by Mr. Ogden Mills; Lacroix collection of geological specimens, presented by Mr. J. P. Morgan; ethnological specimens and photographs from the Pacific Islands, presented by Mrs. William Churchill.

Again we are indebted to Mr. C. C. Burnham, Vice-President of the Chicago, Burlington and Quincy Railroad Company; to Mr. W. P. Kenney, Vice-President of the Great Northern Railway Company, and to Mr. F. D. Underwood, President of the Erie Railroad Company, for transportation of the valuable collections of fossils from Alberta. The Museum also desires to make acknowledgment to Mr. T. H. Rossbottom of the Panama Rail Road Company, who has on several occasions granted reduced rates of transportation in connection with our explorations in South America, and to the Ferro-carril de Samaná y Santiago for free transportation and other assistance given to our representatives on our expedition to Santo Domingo.

## PUBLIC EDUCATION

Each year the Museum increasingly develops its public educational work, always with the object of extending the results of its explorations and researches as widely as possible.

The importance of establishing local lecture centers for the benefit of pupils who cannot afford car fare to visit the Museum was so evident that, although the City did not provide the necessary funds for the opening of the ten centers suggested in the proposition submitted to the Board of Education by the President in 1914, the Trustees authorized the Curator of Public Education to open certain of these centers without additional expense to the City. Courses of lectures have been given in the Washington Irving High School, in Public School No. 64, Manhattan (on the lower East Side), and at two schools in the Bronx. During the year these lectures were attended by more than 32,800 pupils, the majority of whom could not afford the car fare necessary to transport them to the Museum. The

interest aroused in these four lecture centers and the large attendance have been a practical demonstration of the effectiveness of this method of coöperation. The results clearly point out the desirability of extending this feature of Museum instruction to the ten local centers originally proposed, which are situated in areas where the population is most dense.

A second innovation this year has been the placing of the Museum's extensive series of lantern slides at the disposition of teachers in the public schools for use in the class rooms. This arrangement has been made possible through a special appropriation of \$2,000 by the Board of Education, to meet the expenses connected with their distribution. This places the very best illustrative material for geography and history classes in the hands of teachers.

The third feature of Museum Extension during the past year has been the additional coöperation with the branch libraries of the New York Public Library. Several special collections have been prepared for circulation among these branch libraries, designed to stimulate the reading of good books on travel. This, of course, will be extended during the year 1916.

## PUBLIC HEALTH

Closely connected with Public Education is the matter of Public Health, which is rapidly extending among the schools a knowledge of both the cause and the prevention of disease.

Our Department of Public Health, which has been developing gradually under the able direction of Curator Winslow, is coöperating with the Museum's Department of Public Education and the City Department of Health, through its exhibition halls, its literature, its public lectures, and the public health charts, which have been prepared for circulation in the schools, while at the same time, through its Museum of Living Bacteria, it is rendering a national service by its distribution of type bacteria. At present the department has 695 types under cultivation, of which more than 3,000 cultures have been sent out gratuitously to the laboratories of universities and health departments in more than 400 different institutions

in the United States and abroad. Inasmuch as our Department of Public Health is the youngest of our departments, the attention of the Trustees and Members is directed especially to Curator Winslow's report on page 82.

#### MEMBERSHIP AND STAFF

During the year the Museum has suffered the loss of three of its early scientific advisers: Daniel Giraud Elliot, Charles F. Holder and Frederic Ward Putnam.

Doctor Elliot's death occurred in New York City on December 22. Doctor Elliot shares with the late Professor Albert S. Bickmore the honor of being one of the two scientific founders of The American Museum of Natural History. The original collection of birds belonging to Doctor Elliot was the nucleus of the Museum's later riches (it was the first material of any kind that the Museum obtained), and his purchases and gifts laid the foundation of the great department of mammals and birds. At the time of the foundation of the Museum, he was the best-equipped and practically the only man in New York City to give advice in scientific matters relating to the institution. Professor Bickmore conceived the idea of the Museum; he gave his effort to create interest in the plans and to raise funds to carry them out, but he came to Doctor Elliot for advice involving scientific knowledge. In 1869 Doctor Elliot went abroad for study but also with a commission from the Trustees to purchase material for the Museum, and he obtained some notable collections. Some years after his return he presented his collection of humming birds, obtained during his stay in Europe, and at about the same time the Museum gained his library of ornithology. Doctor Elliot traveled in connection with his work more than most naturalists. In 1894 he went to the Field Museum of Natural History (Chicago) as head of the Department of Zoölogy. In 1906 he began the preparation of his recently published "Review of the Primates." In connection with the researches for this publication, he made a world-tour in 1907-1909. After reaching the United States he came to the American Museum to devote himself to the research in hand. He later went again to Europe for further study in this con-

nection. Besides this *Review*, Doctor Elliot was the author of many other volumes and papers. On the occasion of his eightieth birthday, on March 7, 1915, a formal word of greeting and appreciation was extended by the Trustees and members of the staff of the American Museum. In recognition of his services he was elected a Trustee of the Museum at a meeting of the Board held November 8, 1915, in the Class of 1917.

The death of Dr. Charles F. Holder occurred in Pasadena, California, on October 11, and this country has thus lost one of its older marine naturalists. In 1871 he was appointed Assistant Curator in the American Museum, to assist his father, who had been associated with the Museum since its inception. Doctor Holder resigned his position in the Museum in 1875 and soon afterward accepted the chair of zoölogy at Throop College, Pasadena. At the time of his death he was Honorary Curator of its museum. Doctor Holder was the author of many books and a member of many distinguished scientific societies.

Professor Frederic Ward Putnam, the founder of anthropological research in the American Museum, died in Cambridge, Massachusetts, on August 14, 1915. Professor Putnam was a genius in Museum development and is by far the most conspicuous figure in the history of American museums. Anthropology as we use the term had scarcely come into existence when he took it up. He was the father of municipal anthropological research institutions in America. The Peabody Museum in Cambridge as it stands to-day is due to his leadership; his coming to the American Museum in the year 1894 resulted in the development of anthropology as a department of research and the beginning of a policy of extensive systematic field investigation. It was Professor Putnam who encouraged the late Marshall Field to establish in Chicago the great museum which now bears his name, and it was Professor Putnam who guided its department of anthropology through its formative period. Later he organized a department of anthropology and a museum at the University of California, where he was director for several years. When Professor Putnam was invited to the American Museum by President



Morris K. Jesup, there had been no important anthropological expeditions, and no scientific publications on this subject. Professor Putnam really began what the State of Ohio is now carrying out: a systematic archæological exploration of the entire state. Notwithstanding the disappointments in the pursuit of the problem, Professor Putnam was firm in the belief that we shall ultimately find satisfactory proof of man's presence in America during the last period of glaciation. During his long and interesting career he held positions in many important corporations and institutions.

#### STAFF PROMOTIONS AND APPOINTMENTS

On February 1, Mr. H. E. Anthony was appointed an Assistant in the Department of Mammalogy and Ornithology.

On April 23, Mr. Herbert Lang was appointed Assistant in Mammalogy for 1915.

On April 23, Mr. James P. Chapin was appointed Assistant in Ornithology for 1915.

Research in the Museum was greatly strengthened by the establishment of the new position of Research Associate:

On October 20, Dr. Charles R. Eastman was appointed Research Associate in Palæontology.

On October 20, Mr. M. D. C. Crawford was appointed Research Associate in Textiles.

On November 8, Dr. George Bird Grinnell was appointed Research Associate in Ethnology.

#### PUBLIC ACTIVITIES OF THE AMERICAN MUSEUM STAFF

At the ceremonies in connection with the adoption of the City Flag and the two hundred and fiftieth anniversary of the installation of the first Mayor and Board of Aldermen of the City of New York, held at the City Hall on June 24, the Museum was represented by Mr. Cleveland H. Dodge, Dr. Frederic A. Lucas and Dr. Bashford Dean.

Dr. Robert H. Lowie and four members of the Museum resident in California (Dr. Jaime de Angulo and Messrs. W. B.

Bourn, William H. Crocker and William Kennon Jewett) were appointed by the Museum, and the appointment was officially confirmed by Mr. Marcus M. Marks, President of the Borough of Manhattan, to act as delegates on Manhattan Day, at the Panama-California Exposition in San Diego, August 9, and at the Panama-Pacific Exposition in San Francisco, August 19.

At the Second Pan-American Scientific Congress held in Washington, D. C., in December, the American Museum was represented by Dr. Frank M. Chapman and Dr. Herbert J. Spinden.

Miss Mary Cynthia Dickerson attended the celebration, in October, of the fiftieth anniversary of the opening of Vassar College, as the delegate of the Museum.

Dr. Clark Wissler and Dr. Robert H. Lowie were delegates from the Museum and from the New York Academy of Sciences to the Nineteenth International Congress of Americanists, which met in Washington at the end of December.

At the recent session of the American Association for the Advancement of Science, Dr. Pliny E. Goddard was reelected President of the American Folk-Lore Society and was elected editor of the *American Anthropologist*, the foremost anthropological publication in America ; Dr. Robert H. Lowie, who performed the duties of Acting Secretary in the absence of Professor George Grant MacCurdy, was reelected associate editor of the *American Anthropologist*, and Mr. Alanson Skinner was elected assistant secretary of the American Folk-Lore Society.

Mr. John T. Nichols was the representative of the Museum at the meetings of the American Association for the Advancement of Science, held in Columbus, Ohio, in the latter part of December.

Professor C.-E. A. Winslow has taken up his new work as Anna M. R. Lauder Professor of Public Health at the Yale Medical School, New Haven, but will continue as Curator of Public Health at the Museum. Professor Winslow has continued as Chairman of the New York State Commission on Ventilation. He has also served as Chairman of the Laboratory Section of the American Public Health Association and the Secretary of Section K of the American Association for the Advancement of Science.

## WELFARE OF EMPLOYEES

In addition to the comprehensive Pension Plan which has now been in successful operation for three years, the Employees' Benefit Association, an independent organization of the employees themselves, and the Employees' Coöperative Store, all tending to promote the general welfare of our employees, the Trustees have secured for employees of the Museum still further protection by taking out an insurance which will give to them the benefits of the Workmen's Compensation Act, in the event of accident. This is indicative of the generous attitude of the Trustees toward their employees, since the Museum, as an educational institution, does not come under the provisions of the Workmen's Compensation Act. The form of insurance approved by the Trustees voluntarily gives to the employees all the benefits that would accrue to them if the institution came within the provisions of this Act.

## HOSPITALITY TO SOCIETIES

As for many years past, the Museum has extended hospitality to educational and scientific societies for lectures and meetings. The regular meetings of the New York Academy of Sciences and Affiliated Societies were held here, also the annual meeting of the National Association of Audubon Societies for the Protection of Wild Birds and Animals, and the one hundred and third meeting of the National Academy of Sciences; also the annual meeting of the American Scenic and Historic Preservation Society.

The Museum was especially honored by the meeting of the National Academy of Sciences during the week beginning November 15. Many important scientific papers were presented. An evening reception to all the scientific societies of the city was held at this time, in honor of the Academy.

Exhibits were held at the Museum by the Aquarium Society, and by the American Dahlia Society (first annual meeting) and the Horticultural Society of New York.

Among the societies and organizations that held meetings here were:

American Bison Society  
 American Dahlia Society of New York  
 American Ethnological Society  
 American Scenic and Historic Preservation Society  
 Aquarium Society  
 Camp Fire Guardians  
 College of Jersey City, Department of Pharmacy  
 Columbia University, for biennial Jesup lectures and for classes  
 Department of Education, New York City, Free Public Lecture Courses  
 Horticultural Society of New York  
 Inkowa Club, Camp Inkowa  
 Keramic Society of Greater New York  
 Linnæan Society of New York  
 National Academy of Sciences  
 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 Alumnae of the Normal  
     College of the City of New York  
 New York Academy of Sciences  
 New York Entomological Society  
 New York Microscopical Society  
 New York Mineralogical Club  
 New York University School for Health Officers  
 Parents' and Teachers' Association of Teachers' College  
 Torrey Botanical Club

## I. GENERAL ADMINISTRATION

FREDERIC A. LUCAS, Director

Again the year has been marked by steady progress in all departments, rather than distinguished by a few notable advances; but it is pleasant to record that in spite of continued demands for space, due to growth of the collections, the condition of the various exhibition halls has steadily improved. The most noticeable improvement is in the Quaternary Hall, fourth floor, where the rich collection of fossil elephantids is displayed, which is in better shape than for the past ten years.

There is, as was noted last year, a continued increase in the use of the collections by pupils and students, due to the

steady improvement of the exhibits in installation and labeling. The best use of the Museum is that which calls for the least outlay of time on the part of members of the staff, and this is possible only when through their arrangement and labeling the collections speak for themselves and call for no explanation other than can be given by the instructors in charge of the classes. The objects on exhibition are much used by students of drawing and applied art, and the exhibits made by the classes in applied art, Teachers' College, at the Panama-Pacific Exposition, consisted entirely of designs based on a study of aboriginal art as shown in the Museum.

The use of the Visitors' Room has increased as its opportunities have become known, and during the past year it was used by 19,713 visitors.

The Synoptic Series of Mammals is beginning to emerge from the clouds of disorder and incompleteness that have so long hung over it and is beginning to assume tangible shape. As noted on the general label, the somewhat ambitious purpose of this exhibit is to show the characters of mammals, their principal groups and the relations of these with one another, as well as to illustrate various peculiarities of habits or structure. It has been interesting to note the changing attitude of visitors towards this hall as its condition has changed and improved: from being little visited, it has become very popular, showing that a collection intended primarily for students may be made interesting to the general public.

"Hard times" still affects the sale of leaflets, though there is a steady demand for the *Guide*, 3,370 copies of that publication having been sold during the year. Other items are 2,001 *Guide Leaflets*, 763 *Handbooks* and 619 reprints of articles in the *American Museum Journal*. Post-cards still retain their popularity, and 526 sets of fifteen, and 11,688 sets of three were sold, a total of 42,954 cards. One new *Handbook*, "Dinosaurs," was issued during the year and three new *Guide Leaflets* besides new editions of "Animals of the Past" and "Our Common Butterflies."

Many minor changes and improvements have been made in cases and equipment that add much to the appearance of the halls and facilitate the use of the material, particularly by the many classes that visit or meet at the Museum. The frequent demand for tables has been met by the construction of a number of folding tables that serve for the display of material.

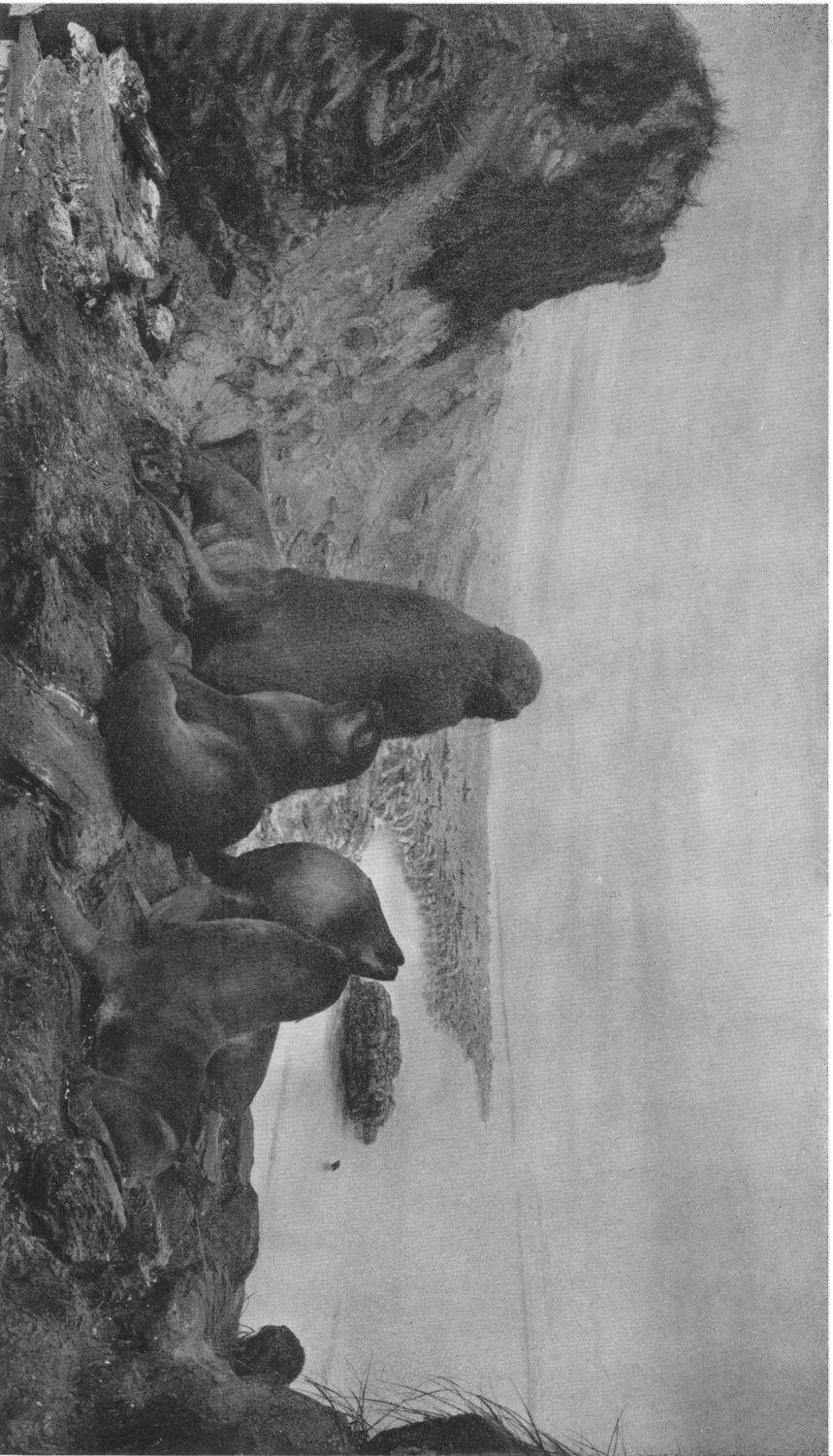
Besides fixed cases for the Hopi, Fur Seal and Crane Groups, 18 metal-frame cases have been constructed, 1,700 of the standard storage trays that are ever in demand and 100 insect trays.

A most important piece of work, now well advanced, is the construction of metal storage racks, equipped with heavy trays, for fossil vertebrates. This not only adds greatly to the capacity of the storeroom and the accessibility of the specimens, but does away with the tiers of clumsy and inflammable wooden tables with which the room was filled.

Another important item for the equipment of a modern museum is a fireproof storage closet for moving picture films, such as has just been built, which contains not even an electric light wire, the illumination being wholly from without.

Work on the various exhibits has progressed steadily and satisfactorily, there having been general improvements in installing and labeling collections as noted in the Departmental Reports. The reception of the fine Keith collection necessitated a complete rearrangement of the Mexican Hall, and, in order to make room for it without retiring other objects, many of the Maya casts have been placed in the South Corridor, second floor, which has been made over for their reception and is about to be repainted.

The most noteworthy addition to the exhibits is the Hopi Indian Group, portraying a part of the village of Walpi. This, while on the general lines of the habitat groups, embodies many novel features of construction and lighting; it was planned by Mr. Howard McCormick and executed by him and Mr. Mahonri M. Young with some assistance from the regular Museum preparators. A companion piece in the way of an Apache Group by the same artists is now well



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FUR SEALS AT KITOVY ROOKERY





advanced. The Director has for many years desired to see such groups introduced in museums and is pleased to have lived long enough to see this accomplished.

The Group of Whooping Cranes, a bird apparently doomed to destruction, has been added to the Habitat Series, leaving but one space to be filled, that intended for arctic birds.

The King Penguins, on the second floor, mark, it is hoped, the beginning of the rearrangement of this hall, which, as noted on the label, "temporarily installed," is planned to include a series of groups of Birds of the World.

Through the interest and energy of that Nimrod of the Sea, Mr. Russell J. Coles, the Museum has received the mold and skeleton of the rare dolphin *Prodelphinus plagiodon*, and, what is even more important, a mold of the Giant Ray, or Devilfish, *Manta birostris*, a specimen for which the Director has longed for twenty-five years past.

Due to the usual—or unusual—delays to which museums seem subject, the work of preparing this has only recently been started.

The Group of Mountain Sheep, begun in the autumn, will be completed as soon as glass is received to close up the case, and a Group of the Little Brown Bat, including one hundred individuals, will be put on exhibition early in 1916. Mr. Andrews has secured material for a Group of Virginia Deer, and Mr. Anthony for Jack Rabbits and Mountain "Beaver," all for the Hall of North American Mammals.

Mr. John H. Prentice presented a fine example, mounted, of the Square-lipped or White Rhinoceros, and Mr. Walter Winans has added to his gifts a series illustrating various stages in albinism in the pheasant as well as a fine reproduction of the historic Dodo, copied from paintings by Dutch artists.

The reproduction of Weyer's Cave, which will be an illustration of the various stages and phenomena of cave formation, has occupied the attention of Mr. Peters and a helper for the greater part of the year.

The Nahant Tide Pool Group has made good progress, though this is not apparent to one unacquainted with the problems to be met and overcome. Probably no one will

realize on seeing the completed group that the largest single item in time—and cost—has been the reproduction of the barnacle-covered rocks, which has called for the making and placing of thousands of barnacles that could be made only a few at a time. Such things as these are among the kinds of work that are included in “the submerged seven-eighths” referred to elsewhere. Next to these come the rockweed that is to hang in masses below the barnacles and which cannot be reproduced quickly and accurately.

These represent only the principal items of completed work, but a large amount has been done for groups and exhibits still in the future.

The output of the printing office amounted to more than 600,000 impressions, a record which speaks well for all concerned. The more important items are 80,000 Printing and Labeling folders, for distribution to hotels and other public places, 55,000 plates for the *Journal*, 13,000 booklets about the lecture courses and a new edition of *Our Common Butterflies*.

The important work of labeling has made good progress during the year, even better than might be inferred from the number of labels printed, for some of these afford as much information as several pages in a book and are infinitely more difficult to prepare. It is comparatively easy to set down information when the writer is not hampered by conditions of space, but when that same information is to be compressed into the circumscribed area of a label, the problem becomes difficult. Particular attention is called to such labels as that on the Calendar Stone in the Mexican Hall, to the “Index Labels” at the entrances to the Indian Halls, and to the descriptive labels on the cases in these same halls. As a matter of justice it should also be said that the present labels on many of the casts of Mexican antiquities were not prepared by members of the Museum staff and are regarded as “temporary,” a word, when used in connection with museums, meaning anywhere from three to ten years. The labels for the Synoptic Series of Mammals would make a text-book of no inconsiderable size, and while in this particular case the

labels were written with a special view to their use by students, they are read extensively by visitors.

# SUMMARY OF PRINTING

|  | 1915                      | Impressions |
|--|---------------------------|-------------|
| Letter-heads.....                            |                           | 31,050      |
| Field and Reserve Collection Labels.....     |                           | 42,930      |
| Report, Requisition and Similar Forms.....   |                           | 70,075      |
| Catalogue Cards, Tickets, Miscellaneous..... |                           | 193,715     |
| Programs, Circulars, Statements .....        |                           | 270,217     |
| Individual Labels.....                       | 1,386                     |             |
| Descriptive Labels.....                      | 1,292                     |             |
|  | 2,678 (average of 5 each) | 13,390      |
|  |                           | 621,377     |

The repairs and repainting of the halls have been continued as extensively as funds would permit, the greatest improvement having been effected in the Care of the Building and Equipment East Corridor, which, together with the elevators and elevator shaft, has been repainted. Engaged columns have been placed on either side of the doorway opening from Memorial Hall, while a large Directory has been placed directly opposite the elevators. This Directory includes a brief statement of the chief exhibits on each floor, an index to the principal collections or more interesting exhibits, while spaces are devoted to new or special exhibits, programs of meetings of various scientific societies and announcements of events of particular importance.

One of the largest items continues to be repairs on the roof. This piece of work calls for the constant services of a roofer and includes the removal of old and misplaced skylights as well as the replacing of many tiles and many square feet of copper.

Aside from the repairs and improvements noted, the building and equipment, including engines, heating and lighting plant and other machinery, have been kept in their customary good condition, and the fact that no repairs were made outside the building and that after eleven years' use the engines developed a higher efficiency than ever, establishes a record that may be embarrassing.

In the Report for 1914 the importance of having the exhibition halls attractive in themselves was touched upon, and it is worth mentioning again, as various instances have come to notice during the year of the impression made upon younger visitors by the Hall of Shells, one of the few wherein it has been possible to have some uniformity in the color scheme, in spite of the red mahogany cases.

Again there has been a gain in the normal attendance during the year, aside from the increase due to the Flower Show Attendance which attracted a large number of visitors. This is attributable to the steady increase in the number of those actually using the Museum for purposes of study as well as to an increase, as shown by the fall attendance, in the number of out-of-town visitors. The Director does not believe that any healthy, permanent gain can be made by advertising or by temporary exhibitions, feeling that there is always a reaction after the interest of the moment has passed. The only sure and healthy way to increase attendance is through the exhibits, for if these are not attractive in their character, well arranged, and well labeled, they fail to arouse the interest of visitors and these in turn will discourage their friends from coming to the Museum.

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

|  | 1909      | 1910      | 1911      | 1912      | 1913      | 1914      | 1915      |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Board of Education Lectures.....   | 28,402    | 43,549    | 40,067    | 52,855    | 48,119    | 52,761    | 41,970    |
| Lectures to School Children and Classes visiting the Museum for Study..... | 36,236    | 24,894    | 39,379    | 49,872    | 56,899    | 65,785    | 61,437    |
| Meetings of Scientific Societies and Other Meetings and Lectures.....      | 27,369    | 15,712    | 18,649    | 28,384    | 33,357    | 32,939    | 22,542    |
| Total.....   | 92,007    | 84,155    | 98,095    | 131,111   | 138,375   | 151,485   | 125,949   |
| Attendance in Exhibition Halls.....  | 747,134   | 528,997   | 626,046   | 715,852   | 728,288   | 657,458   | 794,139   |
| Total Attendance for all Purposes.....                                     | 839,141   | 613,152   | 724,141   | 846,963   | 866,663   | 808,943   | 920,088   |
| Numbers reached by Circulating Collections.....                            | 922,512   | 839,089   | 1,253,435 | 1,275,890 | 1,378,599 | 1,273,853 | 1,238,581 |
| Grand Total....  | 1,761,653 | 1,452,241 | 1,977,576 | 2,122,853 | 2,245,262 | 2,082,796 | 2,158,669 |

While it has not been possible for the City to provide for any addition to the building, yet the good will of the municipal government is shown by the allotment of some \$15,000 Needs for the purpose of necessary repairs. The request for the transfer of the balance of \$111,808.77 (left from the appropriation for the construction of the foundation of the new East Wing, commenced in 1912, but abandoned for lack of funds) to equipment fund has also met with approval. It is therefore hoped that during the coming year it may be possible to add a number of the storage rooms and cases so badly needed for the preservation of material actually on hand.

The frequent use of the West Assembly Hall for temporary exhibits, mainly of paintings and other objects of an artistic character, but related to the work of the Museum, shows the need of such a room as is included in the plan for a Southwest Court Building. Thus, during the year there have been exhibited at the Museum an introductory series of drawings in color of "Our Common Home Birds," by Mr. H. C. Denslow; photographs of North Pacific Coast Indians, by Mr. Edward S. Curtis; photographic transparencies illustrating certain noteworthy features of the work by Professor Percival Lowell and his staff at the Observatory at Flagstaff, Arizona; paintings and bronzes by Mr. William de la Montagne Cary, from studies of Indian life made by him in the West between 1861 and 1874; and a series of enlargements of the remarkable photographs taken by the Australasian-Antarctic expedition under Sir Douglas Mawson. The total attendance at the five exhibitions referred to amounted to 73,654.

The President has dwelt on the pressing need for the Southeast Wing, and the Director may well call attention to the great necessity for a building to be devoted to work-rooms, storage, laboratories and temporary exhibitions, such as the Flower Show, which is indeed more and more pressing.

There are hundreds of plaster molds and many casts, belonging to various departments, which are now scattered about the Museum, many of them in almost inaccessible places and all in inconvenient ones, that should be properly cared for and placed where they are readily available. This is now an impossibility and matters are steadily getting worse.

There is no suitable place for rough or heavy work and absolutely no place where such work as skinning and roughly preparing the skeletons of animals can be done without filling the entire building with offensive odors.

Even ordinary preparation work is carried on at a disadvantage, while some place for work and storage must be provided before any extension of the West Central Wing can take place. But for the fact that the West Court is filled to the level of the first floor, the construction of such a building would be comparatively inexpensive, especially in comparison with the cost of an outer exhibition section.

It would also probably be feasible to locate a badly needed receiving and shipping room in this section until such time in the future as this can be provided where it should be, in the west center adjacent to Columbus Avenue.

The building would also furnish space for the reception, unpacking and preliminary work on the collections that from time to time are received and must now be handled where best they can. For example, in order to unpack and distribute the collections made by the Congo Expedition, it was necessary to give up the hall occupied by the exhibits of recent fishes, and these have been placed in the hall occupied by the systematic series of birds, an affiliation that does not add to the happiness of the officers of either the Department of Birds or of Fishes. It is to be noted here that this is the second hall in the past five years that owing to necessity has been stripped of its exhibits and made into a workroom.

Lack of an equipment fund has rendered it impossible to keep up with the demand for storage, and there is a pressing need for rooms for the ethnological collections and for scores of cases for the material secured by the Congo Expedition and that being constantly received from South America, as well as for metal shelving for fishes and reptiles. It is hoped that at least part of these may be provided for by the new Equipment Fund.

The Director can only repeat what he said last year, that all members of the Museum force deserve the thanks of Trustees and public for the manner in which the varied operations of the institution have been carried on, including not



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

AFRICAN BUFFALO

Mounted by the new Akeley method





merely that work which is apparent to every one, but the part which is not visible and which has aptly been compared to the submerged seven-eighths of an iceberg, far larger than appears on the surface.

Acknowledgment should also be made of the work of the Registrar's department which has not only kept record of the 4,343 incoming and outgoing shipments, but has also had charge of the preparation and dissemination of information regarding the Museum and its work.

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## II. REPORTS OF THE DEPARTMENTS

### PUBLIC EDUCATION

#### DEPARTMENT OF PUBLIC EDUCATION

GEORGE H. SHERWOOD, Curator

The Department of Public Education has continued to maintain close relations with the schools through its circulating collections, its docent service and its lectures. This year its usefulness has been further extended by the development of two new lines of coöperation, namely, the loaning of lantern slides and the opening of local lecture centers. By means of these activities, the Museum has been carried to thousands of pupils in a manner to stimulate a lasting interest in nature and in this institution as a useful and valuable means of education.

Through special financial arrangement with the New York City Board of Education, it has been possible to place the Museum's extensive series of lantern slides at the disposal of teachers for use in the class rooms. The nucleus of this collection is the superb series of slides prepared by the late Professor Albert S. Bickmore for the State Department of Public Instruction. The original negatives and slides were destroyed in the disastrous fire in the Capitol at Albany in 1911, and the personal

set of Professor Bickmore, which he presented to the Museum, is unique. These slides are especially valuable to illustrate topics of geography, history, travel and natural science. Under the present arrangement the Board of Education bears the cost of distributing the slides to the teachers and the expenses incident to the preparation of catalogues, lecture sets and manuscripts for the teachers. Museum messengers deliver the slides, and call for them at the end of the loan periods. The slides are loaned separately, in groups or in lecture sets. The lecture sets are accompanied by full descriptions of the slides so that teachers may prepare the lecture with a minimum of effort.

The use of the slides has been limited by the fact that many schools are not equipped with class rooms which can be darkened, or do not possess stereopticon lanterns. There are, however, 35 schools in the city which are making frequent and regular use of these slides.

In 1914 the Museum offered to open ten local lecture centers in selected schools provided the City would meet the necessary expenses connected with the delivery of the lectures. While the Board of Education heartily approved of this proposition and recommended its acceptance, the City did not provide the necessary funds, and this comprehensive plan of extension had to be abandoned. The need of this kind of educational work was so apparent that, in spite of the failure of the City to provide financial support, the Trustees authorized the Curator of Public Education to arrange for courses of lectures in three of the public schools, namely, the Washington Irving High School, Public School 64, Manhattan, and Public School 39,\* Bronx, in all of which the lectures were considered part of the regular school instruction and were given by members of the Museum staff during school hours. During the year, 30 lectures have been given in the local lecture centers and the attendance aggregates more than 32,800 pupils. The establishing of local lecture centers in the schools is an important practical method

\* The autumn course in the Bronx was given in Public School 3, instead of Public School 39.

of Museum Extension, for it is a significant fact that the majority of the pupils who hear these lectures cannot afford the car fare necessary to visit the Museum to hear similar lectures.

Because of the current interest in these new features of the Museum's educational program, the importance and extent of the long-established methods of coöperation with the schools are apt to be overlooked. The circulating collections of nature study specimens have been supplied to the schools as usual; 671 collections have been in circulation and 473 schools are on the distribution list. The statistics supplied by the teachers show that 1,238,581 children were reached by this method of Museum Extension. The complete statistics in comparison with former years are given in the following table:

STATISTICS RELATING TO THE CIRCULATING COLLECTIONS

|  | 1909    | 1910    | 1911      | 1912      | 1913      | 1914      | 1915      |
|--|---------|---------|-----------|-----------|-----------|-----------|-----------|
| Number of Collections in Use....                 | 435     | 390     | 512       | 537       | 597       | 675       | 671       |
| Number of Schools of Greater New York Supplied.. | 419     | 334     | 486       | 491       | 501       | 470       | 473       |
| Number of Pupils Studying the Collections .....  | 922,512 | 839,089 | 1,253,435 | 1,275,890 | 1,378,599 | 1,273,853 | 1,238,581 |

The lectures for school children given at the Museum maintain their popularity. This in itself is convincing evidence of their practical educational value, for all of them are given after school hours and attendance of both teachers and pupils is wholly voluntary. In all, 68 lectures have been given in the auditorium, and the records show an attendance of 50,852. Therefore, through its lectures, including those given in the local lecture centers, the Museum has reached upward of 80,000 pupils, or nearly double the number of any previous year.

The general lectures given at the Museum have been even more varied and extensive than usual. For Members there have been two courses of lectures on Thursday evenings and two courses for the children of Members on Saturday mornings. There were the regular lectures under the auspices of the New York City Board of Education, on Tuesday and Saturday evenings; two lectures for the Blind; and four lectures on Aboriginal Art by members of the staff of the Department of Anthropology. In coöperation with the American Scenic and Historic Preservation Society, Members were given an opportunity to hear a lecture by Dr. Joseph Kossuth Dixon on "Life Among the American Indians." The biennial "Jesup Lectures," in coöperation with Columbia University, were given this year by Dr. Charles P. Berkey, the general subject being "Origin and Meaning of Some Fundamental Earth Structures."

What might be considered as minor lines of Museum Extension have received considerable attention. The loaning of exhibits to the New York Public Library and its branches was thoroughly reorganized and special consideration given to circulating collections for the children's reading rooms. After consultation with several of the children's librarians, a number of exhibits was chosen illustrating *Eskimo Life*, *Indians of the Plains*, *Indians of the Southwest*, *Life at the Seashore*, *Birds*, *Insects and Reptiles of the Spring-time*. They were of a somewhat general nature, but representative, and simply and carefully labeled, and were allowed to remain at each library for a month. Several departments of the Museum, especially the Department of Anthropology, coöperated in the work.

During the autumn, the work was broadened to include collections that would illustrate the librarian's weekly story hour. For example, a collection of *Dolls from Many Lands*, was put in circulation in the Christmas month, December. Care was taken to see that all this material possessed a truly human interest, and already results have shown that such collections serve a twofold purpose: they stimulate the reading

of special books placed by the librarians on the shelves near the exhibits, thus increasing the circulation of books, and they help the children to gain a real knowledge of the specimens. In several instances, moreover, the coöperation has resulted in librarians' bringing their Boys' Clubs to study the more extensive exhibits at the Museum.

The entire expense of the Museum's increasing educational work for the blind, including the car fares provided for the blind visitors and their guides when necessary, is met through the income of the Jonathan Thorne Memorial Fund. By means of its free lectures for blind adults and its talks for the blind children of the public schools, the Museum's education for the blind has continued throughout the year. During school hours ten blind classes have been regular visitors, nine coming from the public schools of New York City, and one from Newark, New Jersey. A schedule of lectures has been followed, and the individual attention given to each class is said by the teachers to have been most helpful. One teacher in summarizing the work of the year said that often an hour spent at the Museum, where the children have an opportunity to "see" with their hands, gave more life and realism to a subject than could be given in two weeks of study at school. The attempt was made, in all possible ways, to connect the material used with every-day life. In the bird talks, the common birds that the children could hear in the parks were used, while the flowers in the flower talks and the tree branches in the tree talks all came fresh from the woods and fields. The small classes, seldom more than fifteen and often fewer in number, sat in a semicircle about the teacher, and opportunity was given to feel the lesson objects carefully. Two hundred and forty-seven blind children, one hundred and thirty-one guides, and thirty-two teachers, making a total of four hundred and ten blind pupils and attendants, visited the Museum for regular instruction.

Loan collections to the schools supplemented the work at the Museum. The large relief globes of the world were studied by fourteen blind classes in Manhattan, the Bronx, Brooklyn

and Queens. Mammal cases, containing small models of a camel, a giraffe, a hippopotamus, the regular bird sets, and a special collection illustrating Chinese life were also sent out.

In the autumn two lectures for the adult blind were given: on November 19, "Bird Neighbors and Their Homes," by Dr. G. Clyde Fisher, and on December 17, "Wild Animal Friends of Mine," by Mr. Ernest Harold Baynes. Despite inclement weather on both occasions, the total attendance was four hundred and twenty-two blind and guides. The experiment of giving the blind the opportunity of "seeing" *before* the lecture the birds and mammals about which stories were to be told was tried and proved helpful. Almost every member of the audience responded to the invitation to come early and discover what the animals were like about which they were to hear.

We are indebted to Mr. Lorillard Spencer, Jr., Scout Commissioner of Manhattan, and Mr. W. B. Holcombe, Scout Commissioner of Brooklyn, and to the many Boy Scouts who rendered voluntary service as guides for our blind guests at the evening lectures.

An important part of the work of the department is its docent service and other instruction in the Museum. Many times during the year classes of pupils are conducted through the halls and the exhibits explained. Guides are also furnished by this department for Members of the Museum, whenever requested.

Twice a year, during Regents' Week, several of the high schools of the city bring their entire biological departments to the Museum for definite laboratory work, especially in the Hall of Habitat Bird Groups, Insect Hall, Darwin Hall, Hall of Public Health and Forestry Hall. Also at this time one or two lectures are given to each school by members of the department. Each of the larger high schools usually comes on two successive days, and the number of schools availing themselves of this opportunity is increasing.

During the year our reference file of photographs has been increased by 2,745 prints, and 3,553 negatives have been added to the negative file. These numbers include 1,630 negatives of the Akeley African expeditions deposited in the Museum by Mr. Carl E. Akeley, but they do not include nearly 7,000 negatives made by Mr. Herbert Lang of the American Museum's Congo Expedition. The latter have not yet been filed. To our collection of motion picture films the following have been added: 700 feet of South American subjects, made and presented by Mr. Algot Lange; 360 feet of American Bison made in Yellowstone Park, presented by Mr. M. P. Skinner, and 6,000 feet made by the Barnes-Kearton Expedition across central Africa, presented by Mr. James Barnes. The photographic work of the Museum has grown until it is impossible for one photographer to do it, and consequently several thousand prints and a considerable number of lantern slides were made outside of the Museum by commercial photographers. The following work, however, was actually done by the Museum photographer during the year: 5,502 prints, 2,615 lantern slides, 1,490 negatives, 17 enlargements and 9 transparencies. These numbers, although large, give no adequate idea of the difficulties overcome or of the tremendous amount of painstaking work accomplished.

Administrative duties as Assistant Secretary of the Board of Trustees have occupied the Curator to such an extent that he has given only casual attention to departmental affairs. The real burden of directing the details of the educational work has rested, therefore, on the Assistant Curator, Dr. G. Clyde Fisher, and the progress noted is a significant tribute to his efficiency. The Museum Extension to the public libraries and the development of the education for the blind have been in charge of Miss Ann E. Thomas, who has also given valuable assistance in the various lecture courses.

## GEOLOGY AND EXTINCT INVERTEBRATES

DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY

EDMUND OTIS HOVEY, Curator

Through the generosity of Mr. J. P. Morgan, the Lacroix collection of rocks and minerals from the pegmatite dikes of the United States was donated to the Museum. This collection comprises 229 choice specimens. Among the other gifts may be mentioned samples of volcanic ash from Mt. Lassen, California, presented by Mr. W. T. Gould; rocks from the terminal moraine at Hollis and Jamaica, Long Island, presented by Dr. David S. Marshall, and Mesozoic fossils from the Cordillera of Bogotá, presented by Dr. José M. Rosales. Choice collections of volcanic bombs from Idaho, fossils from the Eifel district of Germany and a small collection of fossilized wood from Florissant, Colorado, have been secured through purchase.

Through the aid of the Angelo Heilprin Exploring Fund, Curator E. O. Hovey spent February, March and April in revisiting the active volcanoes of the Lesser Antilles and in observing the changes that had taken place in that region since his last visit in 1908. The size and depth of the crater of the Soufrière of St. Vincent were determined with a Y-level; many specimens were brought back to illustrate the changes that have taken place in the rocks during the past seven years, and scores of photographs were taken to add to the extensive collections already in the possession of the Museum as a result of former expeditions.

During the greater portions of June and July, Assistant Curator Reeds and Mr. P. B. Hill were in Porto Rico conducting palæontologic and stratigraphic studies and in making a large collection of rocks, fossils and photographs to supplement these studies. The collection consists of from 11,000 to 12,000 specimens, ten



per cent. being rock specimens, approximately ninety per cent. invertebrate fossils and about one dozen fragmentary specimens of vertebrate remains. One of these consists of a lower jaw with three teeth and two vertebræ of a new species of primitive sirenian which Curator W. D. Matthew has identified as ?*Halitherium antillense* n. sp. The department coöperated with the New York Academy of Sciences and the Porto Rican government in conducting this survey. When the work of identification and description has been completed and the results published in the *Annals of the New York Academy of Sciences*, one set of the specimens will become the property of the Museum, another will go to the Porto Rican Government and a third set, if there should be one, will go to Columbia University. It has been arranged that Dr. T. Wayland Vaughan of the United States Geological Survey will identify and describe the coral specimens.

In May, 1915, letters were received via Denmark from the Crocker Land Expedition. These supplemented the meagre reports of the Crocker Land party received in November, 1914, and asked that a relief ship be sent northward in the summer of 1915. Accordingly the "George B. Cluett," belonging to the Grenfell Association, was chartered for the trip and left Battle Harbor on the 26th of July, with Curator E. O. Hovey in charge, and Captain George Comer of East Haddam, Connecticut, serving as ice pilot.

The next news of the party came on 8 October, when a letter was received from Curator Hovey, dated Godthavn, Disko Island, Greenland, 4 August, 1915, in which Dr. Hovey said that the vessel had had a successful trip to Disko Island and that the party expected to reach Etah in ten days. Nothing further was heard from the relief expedition until a cablegram was received on 10 November from Mr. Knud Rasmussen, the Danish explorer, stating that the "Cluett" had arrived at North Star Bay, about 125 miles south of Etah, on 12 September, after thirty-five stormy days crossing Melville Bay, and that she had not dared proceed to Etah on account of autumn ice. The cablegram stated that the motor boat at

the Danish station at North Star Bay would attempt to go north to Etah in an effort to bring the main expedition party down to the "Cluett" in time for that ship to come south this season. Since that time no news of the relief ship has been received, with the exception of a letter from Mr. Rasmussen corroborating his telegram. Letters from Messrs. MacMillan and Ekblaw, dated March and April, and giving plans for the 1915 spring work, were received via Denmark on 4 December. The necessity of the relief ship's wintering in the North will of course be a very heavy expense to the Committee. Since Curator Hovey's departure, Assistant Secretary George H. Sherwood has been Acting Chairman of the Committee in Charge.

The installation of the material from Weyer's Cave, Virginia, is almost completed. This exhibit has been placed  
Exhibition alongside the Copper Queen Cave, and will be as fascinating and instructive as the Copper Queen Cave has been. Approximately 1,725 specimens from the Cambrian, Ordovician, Silurian, Devonian and Carboniferous periods have been installed in the remodeled cases in the exhibition hall.

In order to provide room for the housing of the large Porto Rican collection, it was necessary to store a large  
Laboratory amount of the duplicate material of the James Hall  
Work collection. The specimens of the Porto Rican collection were then unpacked, washed and sorted as to classes. The Schrammen collection of fossils acquired last year was removed from the Columbus Avenue storeroom to the mezzanine workroom to provide working space for specialists engaged on a study of the drill core samples collected by the engineers of the Board of Water Supply. Owing to lack of space in the Museum, the collection has been retained by the Board of Water Supply. Some time has been spent in identifying and labeling the Dr. Marshall collection of specimens from the terminal moraine at Hollis and Jamaica, Long Island.

With the aid of Mr. Adam Brickner, Curator Hovey has been at work on a catalogue of the Museum's meteorite collection for publication. Assistant Curator Reeds Research has rendered assistance to President Osborn on various occasions in the preparation of "Men of the Old Stone Age" and "Review of the Pleistocene of Europe, Asia and Northern Africa." In coöperation with the Department of Anthropology, Assistant Curator Reeds spent considerable time in the field and laboratory investigating the geologic relations of "Stone Age Man" at Trenton and Plainfield, New Jersey, and Staten Island, New York.

Eight scientific papers have been published or presented before scientific societies by members of the Publications department during the year.

## MINERALS

### DEPARTMENT OF MINERALOGY

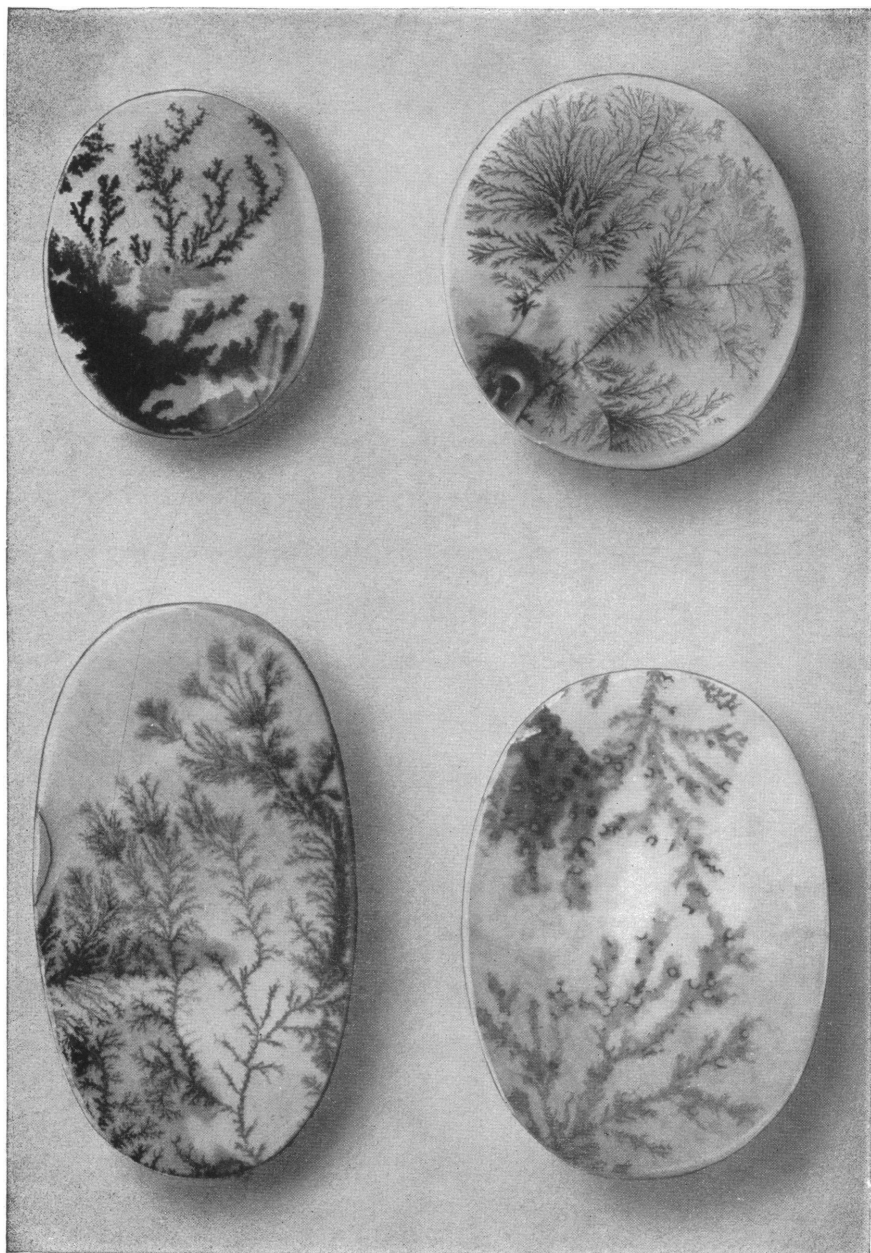
L. P. GRATACAP, Curator

The Mineral Collection has been enlarged by the addition of 135 specimens, many of them of popular interest, from their size and beauty, many of mineralogical importance, Accessions from their rarity, and the rest illustrative of phase or locality in species already catalogued. The collection numbers now—in its totality of table- and wall-case specimens—more than 19,000 specimens. Its growth has been guided by the dual considerations of beauty and scientific enrichment, and, as it stands to-day, it offers a very comprehensive survey of mineralogical phenomena, and doubtless, within its expanded groups of forms, conceals new and interesting crystallographic types. Its practical value to the public is unquestioned, but there is a very evident desire, manifested by the visitors, to see a collateral development of economic features, in connection with the mineral resources of the country. This aspect of mineralogical illustration greatly needs intensification. While its adequate treatment requires

a separate hall, and would be a disfiguring intrusion in the purely mineralogical series, it might be united eventually with the latter, in an ancillary manner, in a system of mineralogical exposition, which would contain the ores of the metals, the salts, clays, coals, cements, asphalts, graphites, abrasives, asbestos, sands and the building stones. A reciprocal reference of one to the other, under some favorable plan of installation, might be instituted, wherein both remained separate but coördinated.

The intention authoritatively expressed to make of the Gem Collection a fitting memorial to its generous donor, Mr. J. Pierpont Morgan, suggests obviously the Gem Collection changes in the present Gem Room—or their incorporation in some other and later apartment—which would make of it an appropriate monument. The color treatment of the walls in stone-veneering, the introduction of electrical chandeliers (electroliers) of conspicuous dignity in design and *material*, a change in the present useful but inelegant box cases, a mosaic floor tile of warm colors, and a broad or bold marqueterie would impart a congruous splendor to the remarkable and brilliant collection and immensely enhance its impressiveness.

In respect to the future growth or development of the Gem Collection—always maintained as a Morgan Memorial—it is compellingly clear that purely mineralogical specimens, other than those appertaining to gem values, should be rigorously excluded from its walls, while the introduction of peculiar or notable examples of jewelry—usually or preferably ethnic—such as may be seen in the collections at the Field Museum, would prove enormously attractive. The bizarre and almost barbaric types of the ornamental uses of gold, silver and precious stones, in jewelry, as exemplified in the Egyptian, Algerian, Turkish, Etruscan, Persian and Indian examples, possess an indisputable fascination. It would be a really superb accompaniment—this subordinated display of technical invention and national taste in connection too with chronological succession—to the Gem Collection itself, and it would be difficult to overestimate its artistic influence, or to overvalue the unique charm



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DEPARTMENT OF MINERALOGY

MOSS AGATE MOCHA STONES, HINDOOSTAN

Specimens from the Morgan Collection of Precious Stones  
in the American Museum



of such a display. The whole, enclosed in a fitting environment, would form a marvelously effective tribute to the memory of the great financier and art lover, through whose munificence the present unsurpassed Gem Collection came into the possession of the Museum.

## WOODS AND FORESTRY

### DEPARTMENT OF WOODS AND FORESTRY

MARY CYNTHIA DICKERSON, Curator

The year 1915 must count as a very quiet one for the Department of Woods and Forestry, through lack of funds to carry on the work planned. There have been additions to the study collection of foreign woods, to the descriptive labels in the hall, to studies for wax reproductions of flowers, leaves and fruits. There has been carried on the usual work in identification of woods for teachers and other outside parties. A second artist's sketch is in hand suggesting the mural painting for the east wall of the hall. It is hoped that 1916 will see the work progress in the preparation of mural decorations, window transparencies and other features intended to give permanent beauty to the hall, and in the construction of exhibits to give practical knowledge of vital forestry conditions—effects of deforestation, forest fires, erosion, and the needs for rapid reforestation by nation and state.

## EXISTING INVERTEBRATES

### DEPARTMENT OF INVERTEBRATE ZOOLOGY

HENRY EDWARD CRAMPTON, Curator

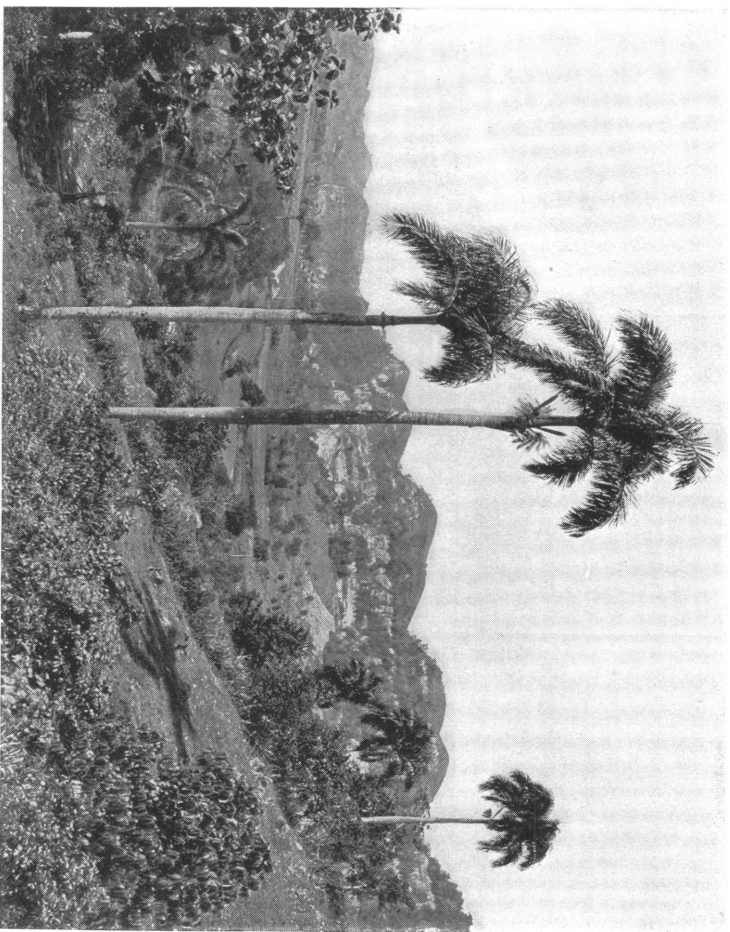
During the past year, substantial progress has been made in the several lines of activity which, as for many years past, have been definitely established in the general scheme governing the expeditions, researches and publications of the department. This scheme, as outlined in previous reports, contemplates the

Field Work  
and Research

thorough study of the larger problems of evolution and distribution in the case of invertebrate organisms, especially those in the region lying between North and South America. To this end the department as a whole has profited greatly through its participation in the Porto Rican survey of the New York Academy of Sciences. During the year Curator Crampton revisited the island to complete its general reconnaissance and to make special collections; Mr. Roy W. Miner investigated the marine fauna of the shores about Guanica Harbor in effective coöperation with Professor Raymond C. Osburn who was engaged in deep-water collecting in the same region, and Dr. Lutz with Mr. Mutchler prosecuted entomological studies in characteristic localities. Through the generosity of Mr. B. Preston Clark, and with the coöperation of the officers of the Ferro-carril de Samaná y Santiago, Mr. Frank E. Watson was enabled to begin field-work in Santo Domingo, which is the essential link between Porto Rico and Cuba, where Dr. Lutz has made collections in previous years. Mr. Miner also spent a month in Vermont and Massachusetts to amplify the North American series of Myriapoda. Meanwhile, Dr. Lutz and others of the staff have continued the intensive investigation of the local insect fauna in coöperation with the New York Entomological Society; the fruits of the above field-work are scores of thousands of specimens that are peculiarly valuable for the prosecution of the tasks undertaken by the department.

Several papers by members of the department have appeared and many others have been advanced. Dr. Lutz Publications has published "A List of Spiders with Notes on their Distribution," and also the results of his experiments with *Drosophila ampelophila* concerning natural selection. He has also nearly completed for press an extended review of the biometric work on the Laws of Variation, and is engaged in a study of certain scale insects, as well as the Hymenoptera of the West Indies and southern United States. Messrs. Leng and Mutchler published in 1914 a list of the Antillean Coleoptera, and Mr. Leng published in 1915 a list of the Carabidæ of Florida; these investigators are continuing their interesting studies on Caribbean Coleoptera. Mr.





DEPARTMENT OF INVERTEBRATE ZOOLOGY

COROZAL VALLEY, IN THE INTERIOR OF PORTO RICO

A typical collecting ground with representative botanical and geological features



Watson has been engaged in editing the list of Floridian Lepidoptera which was left by Mr. Grossbeck, and has carried on extensive studies of his own, particularly in connection with Antillean Lepidoptera. The monograph of *Catocala*, left by Mr. Beutenmüller, has been edited by Dr. William Barnes of Decatur, Illinois, and is now awaiting publication. Professor Crampton has completed the first volume of his studies on the Polynesian genus *Partula*; this is an extensive quarto dealing with the species of Tahiti and is now in press. While the material is from a distant region, the problems are the fundamental ones of evolution and distribution, as in the case of the American material described above. Mr. Miner has continued his work on the synonymic catalogue of the Myriapoda and Mr. Fisk has undertaken certain valuable studies on echinoderms.

In Curator Gratacap's division, the work during the past year has included the replacement of more than 7,500 labels in the exhibition hall and the organization of the gifts, purchases and exchanges accumulated during recent years. These have been separated, distributed and classified, so as to constitute the basis for a study collection. Such series as are not on exhibition are at present placed in the drawers under the table cases, where, however, there is insufficient room to accommodate new material. There is urgent need for a room for Systematic Conchology, so that adequate provision may be made for students and collectors, thus to favor and encourage research by offering laboratory facilities. During the year the Curator installed at the north end of the hall an illuminative map, showing the principal Molluscan Provinces, with an accompanying exhibit of the characteristic genera of each province. Some aboriginal uses of shells in basket work are also illustrated in the north-end cases; a few more transparencies, conspicuously decorative as well as instructive, have been placed in position in the west windows, and a frieze design of shell and seaweed motifs, executed by Mr. Operti, has been painted on the walls. Renewal of labels in the soft green tones selected by the Director has been effected in the Synoptical Series, and the impression of finish, as well as of usefulness, has been progressively strength-

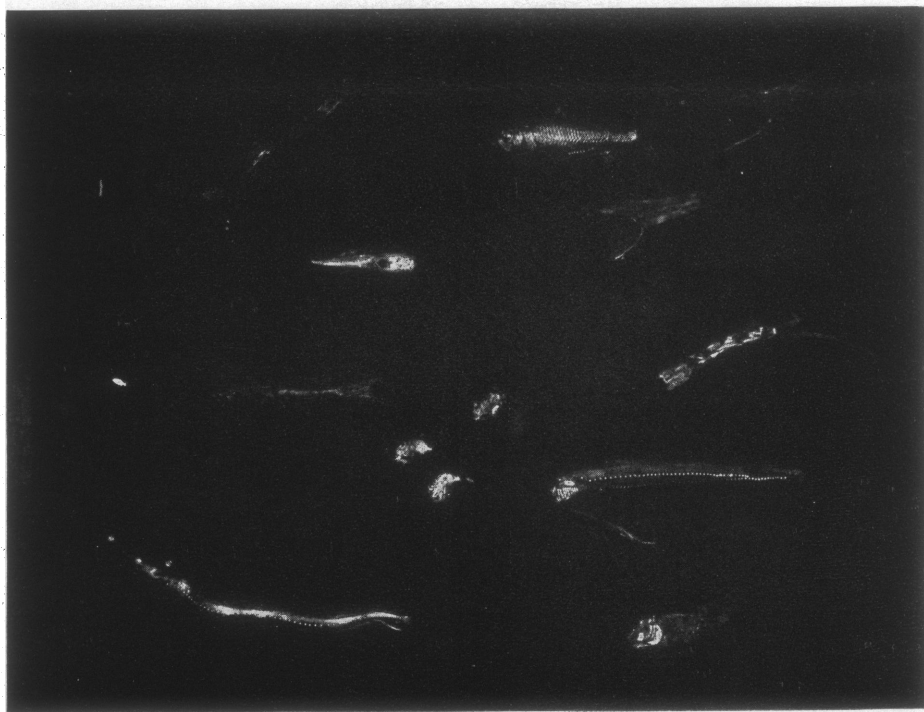
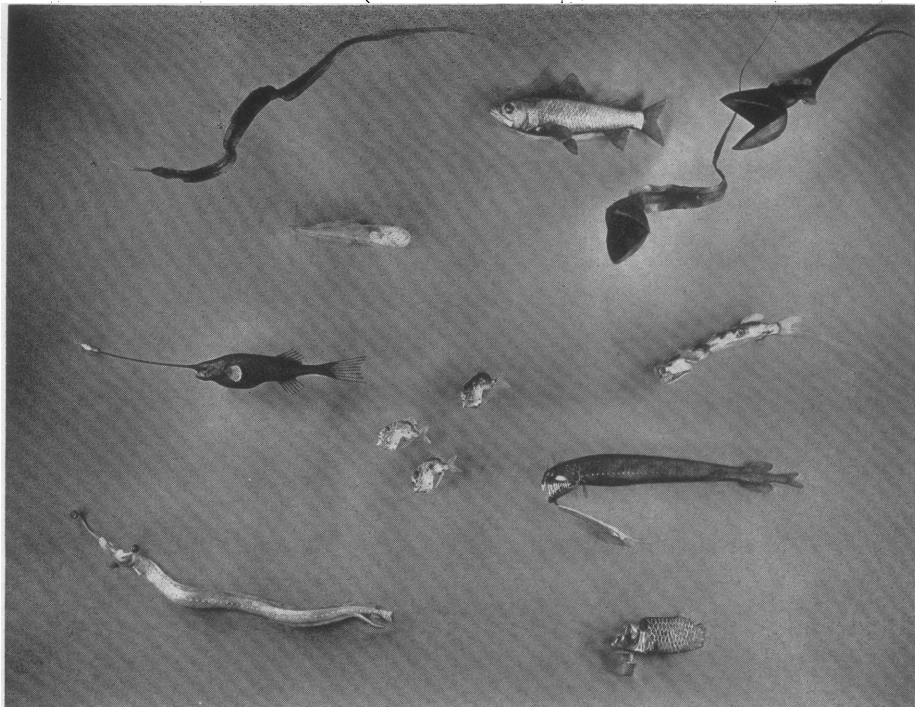
ened throughout. A work of more scientific importance, and one to be at once undertaken, is the revision of the generic names—not infrequently perhaps of the specific names also—of the exhibited shells. Such changes become imperative, in order that the authoritative value of the collection may be maintained.

Six new glass models of distinctive Protozoa have been placed on exhibition in the Darwin Hall. Despite many difficulties, the elaborate and complicated Tide Darwin Hall Pool Group has been brought nearer completion, and the novel Bryozoa Group has also been advanced. Both should be on exhibition in the near future. Other new exhibits, illustrating evolutionary principles, are the Director's panel showing the variation and distribution of *Geospiza* in the Galapagos Islands, and five panels of the Mendelian exhibit, showing the history of hereditary characters of the seeds and flowers of peas, as well as the inheritance of coat-color and pattern in rats. The material for the last named was presented by Professor William E. Castle and Mr. Raymond L. Ditmars. Models of Tahiti and of the related islands Raiatea and Tahaa have been prepared for installation; they illustrate certain phases of the subsidence-theory of Darwin, and they will also bear shells of the genus *Partula* showing the variations of the several species and subordinate forms in different geographical localities.

In the division of insects and spiders, unusual success has been attained. Many new and striking exhibits have been installed which fill out the general scheme established some years ago. The problems of the study collection are especially difficult on account of the great number of species and because the specimens themselves are so numerous. Yet their general arrangement has now reached a point where some freedom has been gained for the prosecution of researches of a general nature.

The department as a whole has been greatly strengthened by the accessions of the year. In addition to the series of Porto Rican invertebrates that have been mentioned as accruing through the work of field parties, we have received a collection of annulates (from





DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

# PHOSPHORESCENT DEEP-SEA FISHES

The upper picture represents the group as illuminated by exterior light ; the lower picture represents the group illuminated as if by the phosphorescence of the fishes

different parts of the West Indies) from the Carnegie Institution, through Professor A. L. Treadwell. The Congo Expedition has brought back large numbers of insects, mollusks and varied invertebrates that will require much time for their arrangement and analysis. Valuable series of shells have been donated by Mr. A. D. Gabay, and by the estate of Mary E. Wilde through Dr. George F. Kunz, while other specimens have been given by Messrs. C. E. Akeley, F. E. Hunt, B. Brown, V. Sterki and Mrs. W. K. Simpson. Mr. B. Preston Clark has added to his valuable gifts of *Sphingidæ*, and Professor William M. Wheeler has donated an extensive series of ants. The section of insects has been greatly strengthened by the purchase, through the Jesup Fund, of the Pearsall and the Kearfott collections; the former is especially rich in *Geometridæ* and the latter consists largely of *Microlepidoptera*, in both of which the Museum had already been well developed.

## RECENT AND EXTINCT FISHES, EXISTING REPTILES AND BATRACHIANS

### DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

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

The past year was one of quiet, steady work in all the activities of the department. Attention centered chiefly in the preparation of material for exhibition, work which naturally must claim a large share of attention in a department which is still rather young as compared with most of the other departments.

### FISHES

Notwithstanding the somewhat unfavorable conditions for acquiring specimens, owing to the war, this was a satisfactory year for the growth of the collections. There were 65 separate accessions, totaling about 1,500 specimens (exclusive of the Congo collection, which alone numbers

3,500 to 4,000 fishes). The department was fortunate also, as in past years, in being enabled, through the generosity of Mr. Cleveland H. Dodge, to procure a number of very valuable specimens. Among these are a suite of 34 examples of the primitive fossil fishes known as Arthrodira, from the Devonian shales near Cleveland, Ohio. This collection includes two complete heads, one with the dentition, of one of the smaller and rarer species of *Dinichthys*. The department was also enabled to participate in the reopening, by the British Association for the Advancement of Science, of an old fossil fish quarry at Dura Den, Scotland, famous at one time for the rare fossil fishes obtained from it, but which has been closed for the past three or four decades. From this source we obtained five large slabs of sandstone covered with fishes, some of them in exquisite preservation, and all interesting and important as the first examples of these classic materials received on this side of the Atlantic.

Another very valuable accession during the year was a huge Devilfish, *Manta birostris*, 17 feet in width, harpooned in Florida waters by Mr. Russell J. Coles, of Danville, Virginia, and presented by him to the Museum. Accompanying the parts of the specimen sent to the Museum, was a plaster mold of the entire fish, made in the field, which will be utilized in preparing the fish for exhibition.

In exhibition, the work centered around the preparation of models of sharks and the removal of the cases devoted to the display of the teleosts, or food and game fishes, to another hall. The shark models, twenty-two in number, are being arranged in the cases. Each model is a beautiful representation of the fish, prepared with the utmost fidelity to nature. Though the space afforded by two cases is limited, still it has been found possible to represent nearly every family of sharks.

The removal of the teleost exhibit, to which a part of the center of the bird hall has been assigned, was necessary to make room for the working up of the great Congo collections,



a work which could most advantageously be done in the former fish hall, which adjoins the taxidermic laboratories. The removal of the fishes afforded a favorable opportunity for rearranging all the specimens in the cases.

It may also be mentioned that a life-sized model, eight feet in length, of the fossil fish *Dinichthys* has been prepared and is ready to be placed on exhibition. It is the first full-sized restoration of this ancient fish ever attempted.

The study, or research, collections have received much attention during the year and are in a satisfactory condition.

Study           The department is the local center for all information  
Collections   regarding fishes, and numerous specimens were  
                  received during the year from various sources for  
identification, among them series of fossil fishes from several  
state geological surveys.

In matters concerning research and publication, the  
Bibliography of fish literature is the most important piece of  
Bibliography   work in hand. The plan of the work is to pre-  
of Fishes       pare a catalogue of the entire literature relating  
                  to fishes, to be published in two volumes, one to  
give the titles arranged according to authors, the other to be  
a subject index to the first. The first volume, that of titles  
arranged under authors, will appear during 1916. The work  
has been made possible by a research fund annually voted  
Curator Emeritus Dean by the Trustees. This was increased  
during the past year by contributions from Dr. Dean and  
Mrs. Dean.

## REPTILES AND BATRACHIANS

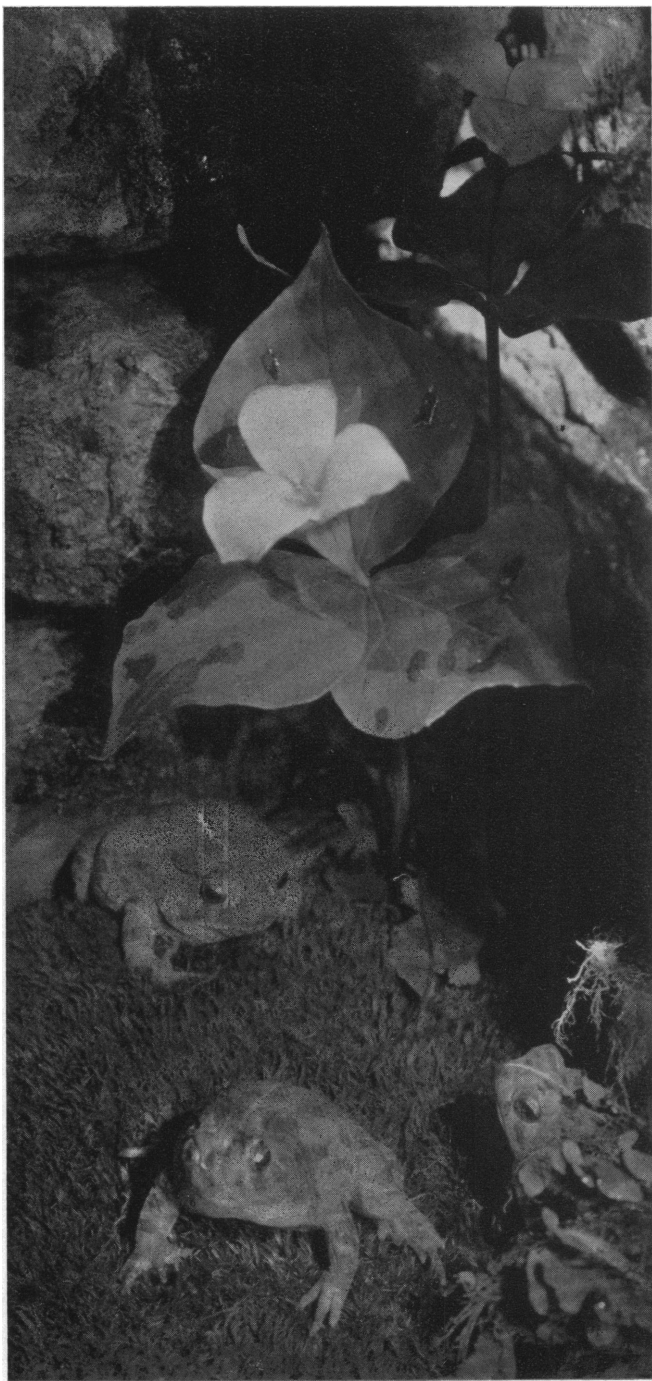
It was the good fortune of the department to be able to  
send Mr. Clarence R. Halter to Santo Domingo, for the  
Expeditions   months of May and June, where a collection of  
                  some 450 reptiles was obtained in the vicinity of  
Sanchez. This material is entirely new to the American  
Museum collections and contains besides some rarities and  
specimens new to science.

The department was able also to send Mr. Walter  
Escherich to Florida for the month of May to do field work

preliminary to the construction of a large habitat group showing the reptile life typical of the cypress swamps and wet prairies of that state, besides a smaller floor group showing the gopher turtle and its sandy habitat. Most of the material was expressed from Florida (Kissimmee Prairie) to the Museum alive, and has been used as models for making mounts and wax casts for the group.

The year 1915 has been one rich in valuable accessions for the Department of Herpetology, the batrachians added to the study collection numbering 370, and the reptiles 690, outside of the Congo collection, which numbers 4,800 specimens (reptiles and batrachians combined). The accession first in importance is that of the Congo Expedition of the American Museum. These Congo specimens are extremely well preserved. In fact they are in a condition remarkable for a local collection, and when we recall that the material was collected under the difficulties of climate and travel in tropical Africa, and was kept in the tropics five or more years before shipment to America, its condition is truly phenomenal. The collection is particularly valuable scientifically, in having a large number of representatives of a species from each area collected over, so that complete series are on hand with notes on habitat, color, breeding habits, etc., for comparative study.

Other valuable accessions consist of the Douglas collection of 72 reptiles and batrachians from Matabeleland, South Africa, with several species new to the Museum; 31 specimens in exchange with the Durban Museum, Natal, Africa; some 70 specimens added to the collection from the Florida reptiles collected for group purposes; 250 specimens in a local collection made by Miss Stella R. Clemence at Woods Hole and the Elizabeth Islands; 12 specimens sent by Mr. Leo E. Miller from Antioquia, South America; 25 snakes in an exchange collection from the Instituto Butantan, Brazil, and 32 specimens from the New York Zoölogical Society. Among species of note accessioned are two specimens of tuatara (*Sphenodon punctatum*) from New Zealand, an almost extinct descendant of ancient reptiles, obtained alive through the



DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY  
THREE FOWLER'S TOADS IN THE NEW "TOAD GROUP"



courtesy of the Minister of Internal Affairs, Wellington, New Zealand, via the Panama-Pacific Exposition; and 12 specimens of *Syrrophus campi*, a new cystignathid recently described, from Texas. It is also of interest that through purchase the department has obtained 13 specimens of the eggs of *Sphenodon punctatum*. There have been accessions of skeletons as follows: tuatara, bullfrog, python, and among turtles the green turtle, leatherback, Iberian tortoise, matamata, and the South American river turtle *Podocnemis*.

*Florida Group*—The important work in exhibition has been in preparation for the Florida group, fifth in the series of Exhibition groups showing the home life of reptiles, and the largest yet attempted. Cypress trees and other accessories for the group are awaiting the completion of work on the reptiles. Among the latter ready to date in wax cast or mount, are toads and Congo eels, skinks, chameleons, painted terrapins, mud turtles, soft-shelled turtles, alligator snapping turtle, diamond-back rattlesnakes, pigmy rattlesnakes, king and coral snakes and alligators at various stages of growth. The group when completed will show the nest of the alligator and young alligators hatching from the eggs.

*Gopher Turtle Group*—Several specimens are mounted for a floor group to show the habits of this large *Testudo* and the sandy burrows where it makes its home.

*Sphenodon Group*—The wonderful opportunity offered by the possession of two living specimens of tuatara has been utilized as far as possible, and the department is in possession of mounted specimens, models and casts, all made from life and of unusual accuracy. These are to be used in a floor group to show the tuatara in its native environment.

Among other exhibits planned and in progress, in addition to the individual specimens needed to fill gaps in the synoptic series, is one showing the poisonous snakes of North America, with models, casts, skulls and X-ray photographs to show species and poison apparatus and the development of poison apparatus in snakes, with a full account of the action of the poison and its treatment by antivenomous serum.

The work of renumbering and recataloguing the reptile study collection (heretofore reported as in progress), as well as cataloguing all new accessions, is finished to date with permanent reference catalogue and a corresponding department catalogue. Similar work on the batrachian collection is still to be done.

There has been much identification work carried on, including that on the Eugene Smith collection of 100 reptiles and 150 batrachians of North America and Europe. Research is in progress, and papers will soon be published on the Santo Domingo collection as well as on the Lower California material obtained on the "Albatross" expedition.

The department reports with regret the resignation of Miss S. R. Clemence as assistant. The reptile study collection with its present admirable arrangement and accurate catalogues stands as a credit to her two years of painstaking labor in getting it into ready reference condition. Miss Arline Field becomes keeper of the collection in her place.

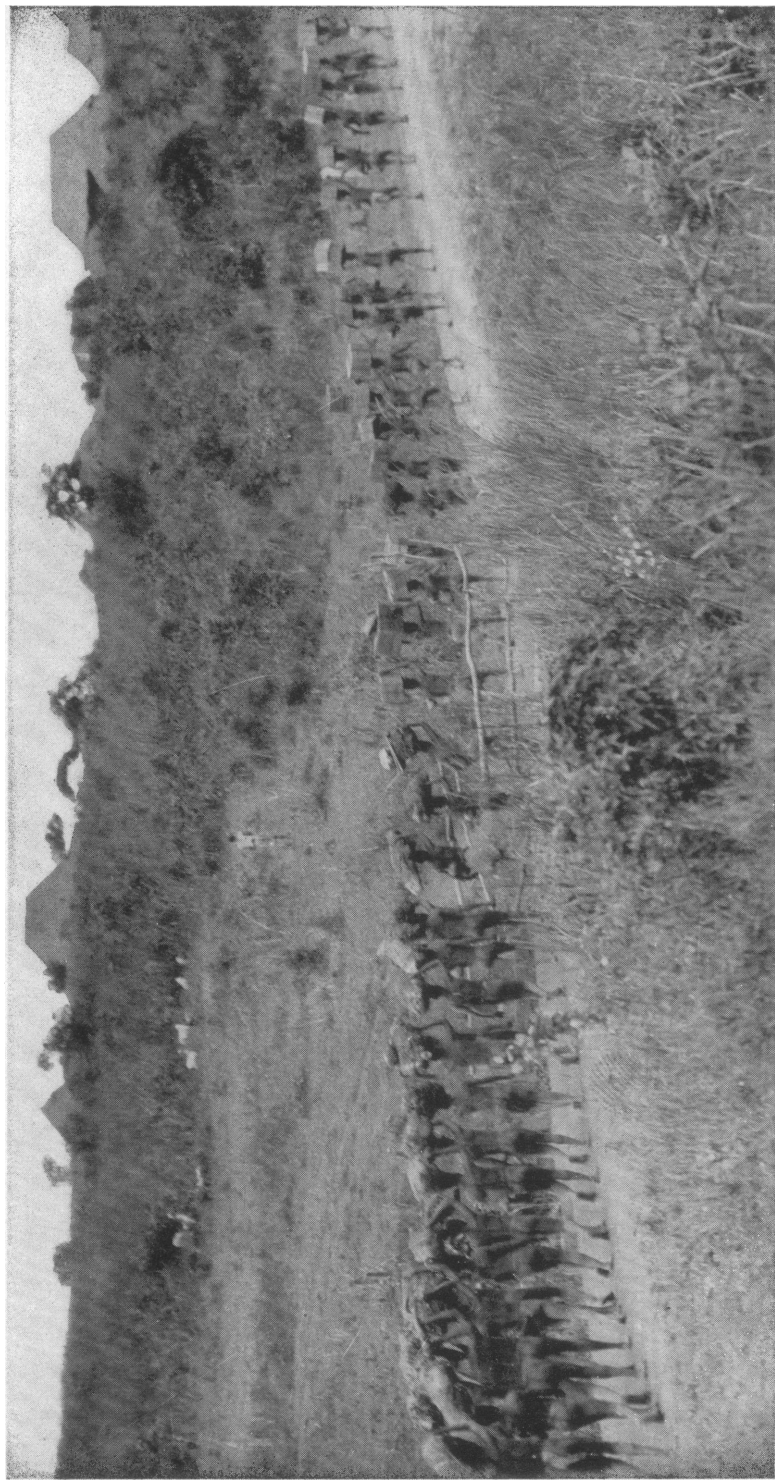
## MAMMALS AND BIRDS

### DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

J. A. ALLEN, Curator

The safe return of Messrs. Herbert Lang and James P. Chapin, the leaders of the Congo Expedition of the American Museum of Natural History, after six years of uninterrupted and eminently successful field work in tropical Africa, with their immense collections of natural history material, is an event that will long render the year 1915 memorable in the history of the Museum and especially in the history of the Department of Mammalogy and Ornithology. The year 1915 forms also the sixth year of continuous exploration in South America in the interests of this department, under the direction of Curator Chapman.





DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

COLLECTIONS OF THE CONGO EXPEDITION STARTING THEIR LONG JOURNEY TO NEW YORK



As in former years, the principal accessions have been acquired through Museum expeditions, but never have the  
Accessions      accessions from this source so greatly preponderated as during the present year. The accessions comprise about 4,375 mammals and about 14,000 birds, of which about ninety per cent. are from Museum expeditions.

We are indebted especially to the New York Zoölogical Society and to the Department of Parks for many valuable birds and mammals received in the flesh. We are deeply indebted to the Goeldi Museum at Pará, Brazil, through the Director, Dr. Emilie Snethlage, for a large gift of birds and mammals from the lower Amazon, nearly all of which were not only new to our collections but include rare and interesting types. A number of very desirable birds and mammals have also been received from Brother Apolinar Maria, from the Bogotá district.

The collection of birds and mammals received through the Congo Expedition of the American Museum of Natural History is not only remarkable for number of specimens but for careful preparation and exceptionally complete and valuable field notes. Although a large part of the collection was necessarily stored for several years in an excessively humid, tropical climate, awaiting favorable transportation, every specimen arrived at the Museum in excellent condition—probably an unparalleled record for natural history field work in the tropics. The mammals obtained number about 3,000 specimens and include not only large series of the smaller species, as bats, insectivores and rodents, but many large forms, as rhinos, elephants, pigs, buffalos, antelopes in great variety, carnivores and monkeys. Among the many especially notable species are the okapi, bongo, giant eland, giraffe, wild hogs and white rhinoceros. The birds number about 6,000, representing very fully the avifauna of the Congo. Many species of both birds and mammals were collected with accessories for mounting as habitat groups.

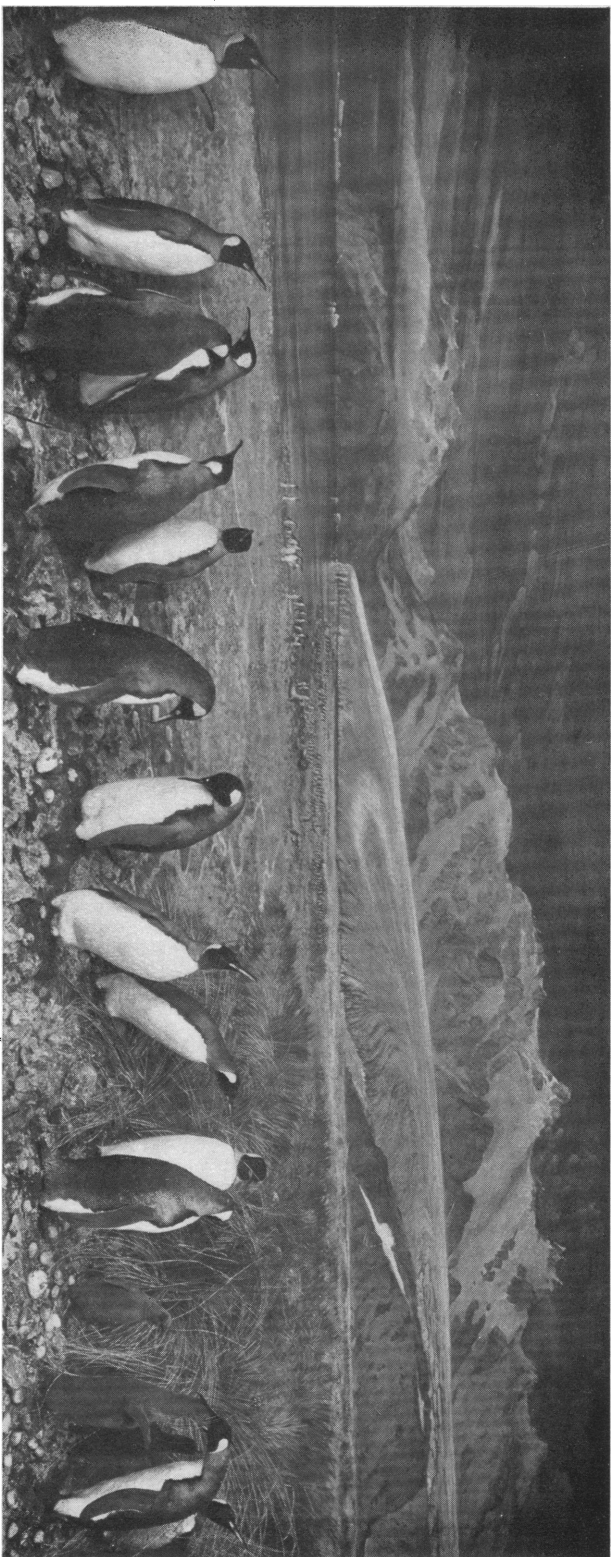
Important collections were made early in the year in Antioquia by Messrs. Leo E. Miller and Howarth S. Boyle, and later in Bolivia, where their work will be systematically continued during much of the coming year. Several months were devoted by Messrs. H. E. Anthony and D. S. Ball of the department staff, assisted by Mr. William B. Richardson, formerly employed by the Museum in Ecuador and southwestern Colombia, to explorations in eastern Panama, with excellent results. Through the generosity of Messrs. Alfred M. Collins and Lee Garnett Day, the Museum was represented on the Collins-Day Expedition to South America by Mr. George K. Cherrie, who secured a valuable collection of birds. Hitherto little work has been done in Peru by the Museum's South American expeditions, but recently arrangements have been completed with Messrs. H. and C. Watkins, engineers long resident in that country and experienced collectors, for a systematic reconnaissance of this important field, and they are already making good progress with the work.

The work of the Brewster-Sanford Expedition, in charge of Mr. Rollo H. Beck, is still being successfully prosecuted off the southern shores of South America and in the Falkland Islands. About 2,000 specimens have been received from this expedition during the present year.

The number of birds added during the year from our South American expeditions is approximately 7,000; of mammals, about 1,000.

The principal additions to the exhibition series of birds are the Sandhill Crane Habitat Group, the locality represented being Heron Lake, Minnesota, and a large Penguin Group from South Georgia Island. A Rocky Mountain Sheep Group, a Black Bear Group, showing the color phases of the species, and an Indiana Bat Cave Group, have been added to the exhibition series of North American mammals.

Through the courtesy and coöperation of Colonel Franklin Brandreth and Mr. Frederick Potter, Mr. Andrews was enabled to secure specimens of buck, doe and fawn of the



DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY  
KING PENGUINS ON SOUTH GEORGIA ISLAND



Virginia Deer and the accessories for a Habitat Deer Group. These were taken on the Brandreth Preserve in the Adirondacks. Mr. Andrews was materially assisted by Mr. Courtney Brandreth, who has executed the color sketch for the background.

New metal cases have been installed for the reception of the birds of the Congo Expedition, and considerable progress has been made in the systematic rearrangement of the mammals, both skins and skeletons, but this important work is still seriously delayed by lack of storage facilities. While the collections are in safe condition, considerable parts of them are not readily accessible for use.

Curator Chapman has been unremittingly engaged upon the birds received from the South American expeditions, and has so far completed their determination that his report on the birds of Colombia is nearing completion, in which will be presented the results of his studies of the faunal zones of this highly diversified portion of South America. Mr. George K. Cherrie has been engaged for several months on the preparation of his report on the birds of the Roosevelt Brazilian Expedition, on which he was one of the Museum's representatives. Assistant Curator Andrews has completed his monograph of the Sei Whale, which is now in press; in addition to the anatomy, life history and relationships of the species presented by Mr. Andrews, it will also contain, as Part II, a detailed description of a foetus of this whale, by Dr. H. von W. Schulte, based on a specimen collected by Mr. Andrews.

The Curator has completed and published his monographic revision of the South American Sciuridæ, and has in hand nearly completed reports on, respectively, the mammals of Colombia, the mammals of Ecuador, and the mammals of the Roosevelt Brazilian Expedition.

The publications of this department during the year comprise eight papers in the *Bulletin* and one in the *Memoirs*. The papers in the *Bulletin* aggregate about 290 pages, with 14 plates and 22 text figures; they include two papers by Curator Chapman describing many new

South American birds; two papers by Assistant Curator Miller describing several new genera of birds, and notes on Ptilosis; the first of a series on Congo birds by Assistant Chapin, and three papers by the Curator on South American mammals. The paper in the *Memoirs*, by Assistant Curator Andrews and Dr. Schulte, on the Sei Whale, comprises about 200 pages of text, 31 plates and 48 text figures.

## EXTINCT VERTEBRATES

### DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

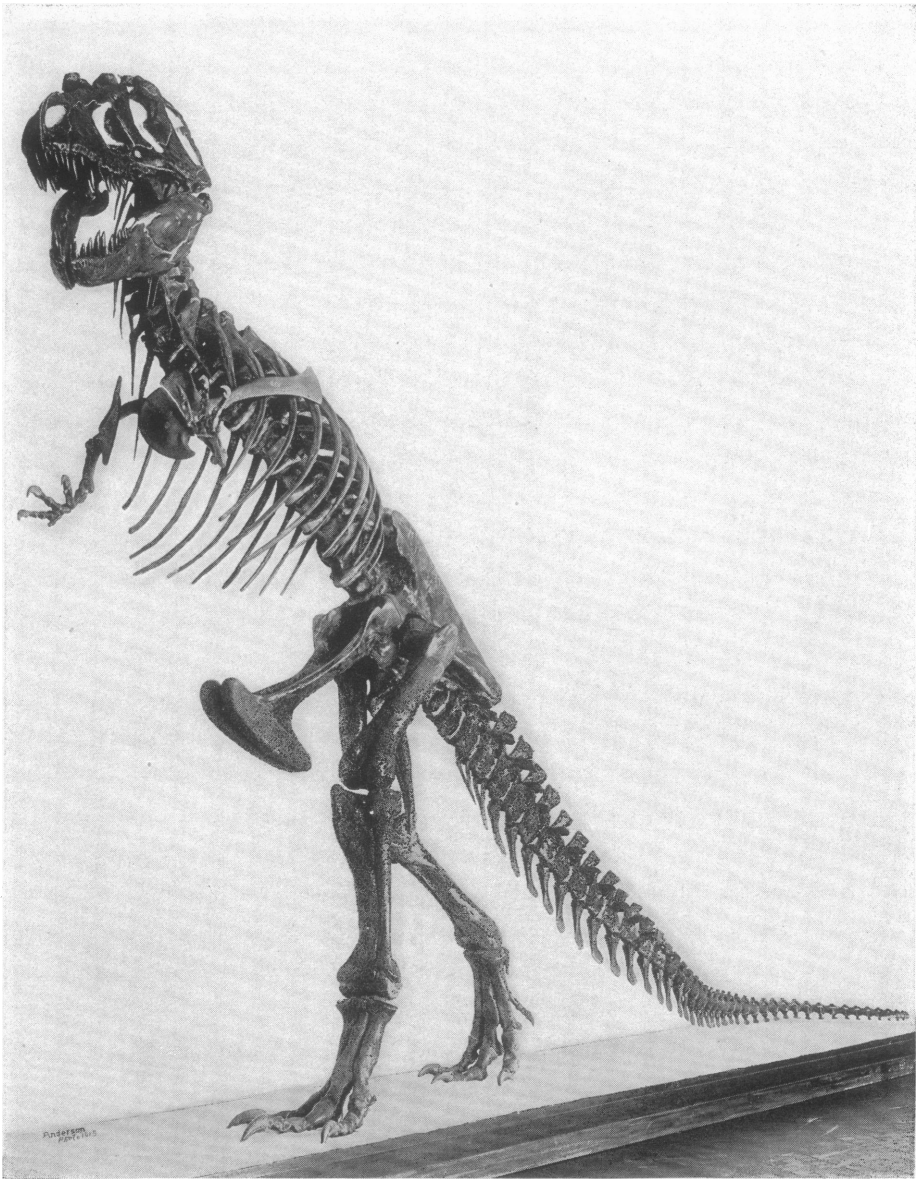
HENRY FAIRFIELD OSBORN, Curator Emeritus; W. D. MATTHEW, Curator

The field work of the department this year was limited to a single expedition by Mr. Barnum Brown, continuing his campaign in the Cretaceous dinosaur beds of Field Alberta. The exceptional success of this party Expeditions in 1914 was noted in last year's report. During the 1915 season another fine series of specimens was secured; while not equal in value to the previous year's collection, it contains a number of fine skulls and more or less complete skeletons. The most remarkable perhaps is a new type of armored dinosaur, the teeth of which, found occasionally in the Cretaceous formations, were named *Palæoscincus* by Leidy fifty years ago, but the animal had remained otherwise unknown until Mr. Brown's discovery of a fine skull and jaws with the greater part of the skeleton.

The skeleton of *Tyrannosaurus* has been completed and, for the present, stands in the center of the Hall of the Age of Man, as there is not room for it in the Dinosaur New Exhibits Hall. This skeleton is the finest single exhibit in the department; its mounting technique is considered exceptionally good, and of its kind unequaled; and the scientific value and popular interest are enhanced by the extreme rarity of these skeletons, their gigantic size and the fierce and predatory character of the animal.

A second skeleton of a carnivorous dinosaur from the Alberta Cretaceous, *Ornithomimus*, is of widely contrasted type





DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

SKELETON OF TYRANNOSAURUS

In its explorations of the closing period of the Age of Reptiles, in the Upper Cretaceous of Northern Montana, the Museum has secured a pair of these great flesh-eating dinosaurs, which attained a height of  $18\frac{1}{2}$  feet and a length of 47 feet



from the *Tyrannosaurus*, a long-necked, slenderly proportioned, active animal, with small head and no teeth. A fine panel skeleton of this rare type has been completed.

The skeleton of the Duck-billed Dinosaur *Corythosaurus* has been completed and installed in the Dinosaur Hall. In this specimen a great part of the skin of body, limbs and tail was preserved on both right and left sides, but the crushing of the rocks had flattened the specimen until in some places it was hardly thicker than paper, while in other parts it was very thick, heavy and fragile. To preserve and prepare this specimen without damage and exhibit both sides of the animal constituted a difficult and tedious piece of preparation work, involving a network of steel rods and wires concealed within and below the specimen. Besides being the type of a new genus and species, it shows the skin, the ossified tendons and even some traces of the muscles.

In the Hall of the Age of Man, the entire exhibit of fossil Proboscidea has been rearranged and reinstalled, much new material being added. Among these additions are: (1) remains of a frozen mammoth from northwestern Alaska found by Mr. L. S. Quackenbush in 1908; (2) series of teeth and jaws of fossil elephants and mastodons to illustrate their distribution, phylogeny, etc.; (3) male and female mastodon and elephant skulls, jaws, etc.; (4) jaws and teeth of Tertiary proboscideans, illustrating the principal known types; (5) skulls and jaws illustrating the evolution of the mastodon (*Mærittherium*, *Palæomastodon*, *Trilophodon*, *Dibelodon*, *Mastodon*).

On the south side of the same hall, considerable additions and rearrangements are in progress among the fossil mammals of South America.

Two mounted skeletons have been added to the series in the Tertiary Mammal Hall. One is the large extinct wolf *Canis dirus* from the asphalt beds at La Brea, the other the extinct Pampean deer of South America, *Brachyceros pampæus*. The reinstallation of the exhibits on the south side of the Dinosaur Hall is in progress, the new method of panel mounting allowing large additions to the exhibits, besides showing each specimen more effectively.

Considerable progress has been made in the preparation of the great collection of Cretaceous dinosaurs from Alberta.

Preparation of  
Exhibition and  
Study Collections In addition to the completed exhibits already noted, a skeleton of the Horned Dinosaur *Monoclonius* and one of an armored dinosaur, probably new, are being prepared, also skulls of five other large and remarkable dinosaurs, two with considerable parts of the skeletons, and an incomplete skeleton of a horned dinosaur in which a large part of the skin is preserved. A fine skull and jaws of a Tertiary mastodon have been partly prepared, work has been continued upon the series of skeletons of the "Clawed Ungulate" *Moropus*, and a number of other specimens have been prepared for study.

The greatest need of Vertebrate Palæontology in the Museum is adequate exhibition space for our unique collection of Upper Cretaceous dinosaurs. This can be remedied only by providing an additional exhibition hall to accommodate the Jurassic and Lower Cretaceous dinosaurs, a considerable part of which is at present withdrawn for lack of space while the remainder occupies a large part of the present Dinosaur Hall, which should be devoted exclusively to Cretaceous dinosaurs.

The installation of metal racks and trays in the large dinosaur storeroom has relieved a serious and dangerous congestion in these collections, to which attention has been called in previous reports. The new arrangement consists of three large steel stacks with steel-framed trays for large bones, replacing the old temporary arrangement of wooden tables, and a series of fireproof wall-stacks for the standard wooden trays. A movable elevator makes it practicable to shift and handle the loaded trays. This installation will remove all danger from fire, increase the accommodation of the storeroom about threefold and make every specimen readily accessible and easily removable. When completed it will take care of the present and prospective study collections of dinosaurs for at least ten years. At present, two of the large stacks

have been completed and the principal wall-stack is being set up. These will hold our present fossil reptile collections and leave ample space for laying out materials for study on tables. This relief will in turn make it possible to rearrange the other storerooms and offices of the department in a more satisfactory way.

Professor Osborn has made a very extensive and thorough study of Palæolithic Man, the results of which appear in his volume "Men of the Old Stone Age," published by Charles Scribner's Sons. It reviews the geologic, palæontologic and archæologic evidence bearing upon the habits, environment and art of early man, and has been highly praised as an authoritative and very interesting presentation of the latest results of recent scientific research. Doctor Gregory has continued his research upon the Evolution and Affinities of the Primates, for which an admirable foundation was laid through the recent publication of Dr. D. G. Elliot's *Monograph*, "A Review of the Primates." The studies upon the lower primates (Lemuroidea) living and extinct have been almost completed, and the studies upon the higher primates (Anthropoidea) are well under way. Some important results of these studies, presented before the Palæontological Society and elsewhere, have already been published.

A small but important series of specimens, casts and models illustrating fossil man and his Tertiary ancestors has been brought together, with a collection permanently deposited by Dr. J. Leon Williams as a nucleus, which was exhibited during the year at the Panama-Pacific Exposition at San Francisco. When returned to the Museum it will be installed in the Hall of the Age of Man.

Professor Osborn has continued researches upon the Titanotheres, Sauropodous dinosaurs, the great Carnivorous Dinosaur *Tyrannosaurus* and upon the Three-toed horses of the Tertiary period. Doctor Matthew and Mr. Granger have continued their revision of the Lower Eocene mammals and Mr. Brown

has continued his studies upon the Cretaceous dinosaurs. In the *Dinosaur Handbook* issued by the Museum Dr. Matthew has given a popular account of this great order of extinct reptiles, with especial reference to the American Museum collections and including reprints of a number of notices of important dinosaur specimens first published in *The American Museum Journal*. A *Guide Leaflet* to the fossil Proboscidean collections, "Mammoths and Mastodons," has also been issued.

The results of research work upon the collections, by Dr. F. von Huene and by members of the staff, appear in five articles in the *American Museum Bulletin*.

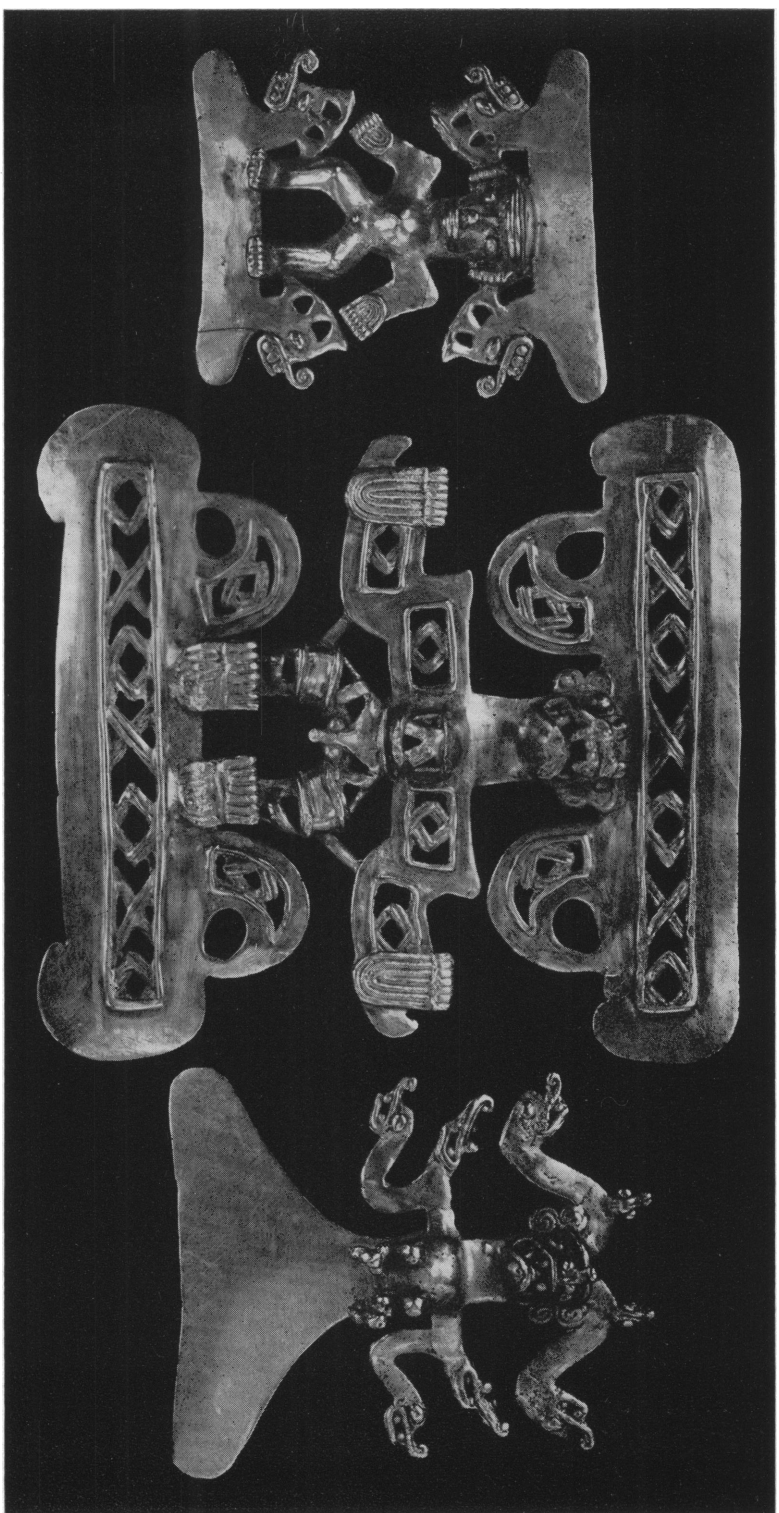
## EXISTING AND EXTINCT RACES OF MEN

### DEPARTMENT OF ANTHROPOLOGY

CLARK WISSLER, Curator

Our Peruvian collections received an important addition in Mr. A. D. Juilliard's Ica collection, particularly rich in examples of the textile art. Deserving of mention is a series of rare embroidered garments and unfinished cloths still in their looms, revealing the processes of weaving.

The Congo Expedition of the American Museum of Natural History brought about 4,000 ethnological specimens from the Mangbettu and neighboring tribes in the northeastern part of the Congo. All the principal industries of these people are fully represented and the acquisition of a full assortment of earthenware vessels is especially noteworthy, since the Museum's African collections have hitherto been particularly lacking in pottery. In addition to completed specimens of the ceramic art, there are others illustrating the process of manufacture. The highly developed basketry technique is fully represented, also iron weapons and implements. Physical anthropology is represented by a number of casts and a large



DEPARTMENT OF ANTHROPOLOGY  
ANTIQUÉ GOLD FROM COSTA RICA  
Minor C. Keith Collection



series of photographs of the principal types found in this region.

Mr. George C. Longley enriched his Jamaica collection by a large number of stone celts, potsherds and bird, fish and animal bones from cave deposits. This gift has been added to the very large collection previously presented by Mr. Longley, and will be found on exhibition in a section of the South American Gallery.

There were many other noteworthy gifts to our general collections, the enumeration of which will be found in the tabulated list of accessions, but mention may be made of an Eskimo collection from the late Mr. H. V. Radford, an ethnological collection from the Indians of the Plains and the Southwest by Dr. J. V. Lauderdale and a series of stone and pottery objects from the Province of Bogotá, Colombia, by Dr. José M. Rosales. These and the other gifts in the table are gratefully received, for by this steady accumulation our study and exhibition collections are made increasingly useful.

Our collections were also strengthened by a number of purchases from the income of the Jesup Fund. An archæological collection from the Island of Marajo, Brazil, collected by Mr. Algot Lange, was purchased. This contains some 2,700 specimens, chiefly pottery. A large African collection from Barotseland was procured as a gift in memory of Mrs. Samuel Lawrence. In addition to these large items there was a number of smaller purchases to supplement our North American collections, which are listed under accessions.

The scientific survey of Porto Rico by the New York Academy of Sciences has included archæological work among its many activities. This work was under the immediate direction of Professor Franz Boas of Columbia University. As the Museum was a contributor to the field funds of the Academy, the collections are deposited here. The excavations this year included the clearing out of several cave deposits and the partial uncovering of a village site. The caves yielded skeletal material only. The village site proves to be of unusual interest but cannot be fully reported upon at present.

As heretofore, field-work in the Southwestern culture area of the United States was conducted on two coördinate lines, one among the surviving aborigines, the other among the remains of prehistoric peoples including the ancestors of the living natives. Field Work and Research Professor A. L. Kroeber of the University of California joined our field staff in June and began work at Zuñi. A collection of about 1,000 pieces was made illustrating the most important native industries. The chief subject of investigation this season was the family organization, methods of reckoning kinship and descent and the clan system. A complete survey of the village was made and a census of the families taken. Incidentally, all the adjacent ruinous sites of former villages were examined and, by means of a series of pottery fragments from each, a tentative chronological grouping was made.

Associate Curator Robert H. Lowie spent a few weeks among the Hopi in an intensive study of their relationship terminology and family systems. A small collection was obtained as supplementary to our exhibition series.

In May, Assistant Curator Nels C. Nelson again took up his archæological work, which occupied his whole time to the end of the year. Chief attention was given to the larger ruins in the outskirts of the Galisteo group. As in previous years, several hundred rooms were completely excavated and careful surveys of the respective sites made. During the latter part of the season, Mr. Nelson made an excursion southwestward as far as Zuñi so that his field observations would coördinate with those of Professor Kroeber, noted above.

President Livingston Farrand of the University of Colorado invited our coöperation in a survey of the little-known sites in the southern part of Colorado. His invitation was gladly accepted and a joint expedition sent out in charge of Mr. Earl H. Morris, of the University Museum. At last report this work was progressing satisfactorily.

Assistant Curator Herbert J. Spinden, who in former years made an extensive study of the surviving peoples in the general region of Mr. Nelson's excavations, spent the season in New York preparing a formal report upon his investigations.



The sections discussing social organization and material culture are now ready.

Under the head of general North American research, two main groups of field problems were pursued independently. Archæological investigations were confined to our local field. Mr. Leslie Spier spent the entire summer excavating in the sands of Abbott's Farm at Trenton and at various points in similar deposits to the north. The work of the previous season made clear the necessary methods of approach to the problem, so that we now have from the Trenton site all the archæological data needed for its interpretation. This work will have an important bearing upon the vexing question of man's antiquity in the New World. All that now remains is to determine the geological position of the deposit. This is a complex problem and will require further field-work. Dr. Chester A. Reeds, Assistant Curator of Geology, is conducting this part of the investigation.

Assistant Curator Alanson Skinner gave some attention to local rock-shelters, but so far no definite stratification has come to light. A part of Mr. Skinner's time was given to a review of local archæological collections, to see what correlation, if any, they made with the culture appearing in the Trenton deposits.

Investigations among the living tribes were in two contiguous areas, the Plains and the Plateau areas. Associate Curator Robert H. Lowie visited the Southern Paiute of southwestern Utah and Nevada, heretofore practically an unknown people to the literature of the region. A general collection was made and a large series of myths recorded.

Under the supervision of the Curator, Mr. James R. Murie has been collecting specimens and compiling data on the Pawnee Indians. Rev. G. L. Wilson continued his exhaustive investigation of the material culture of the Mandan-Hidatsa Indians, giving particular attention to the art of cultivating maize.

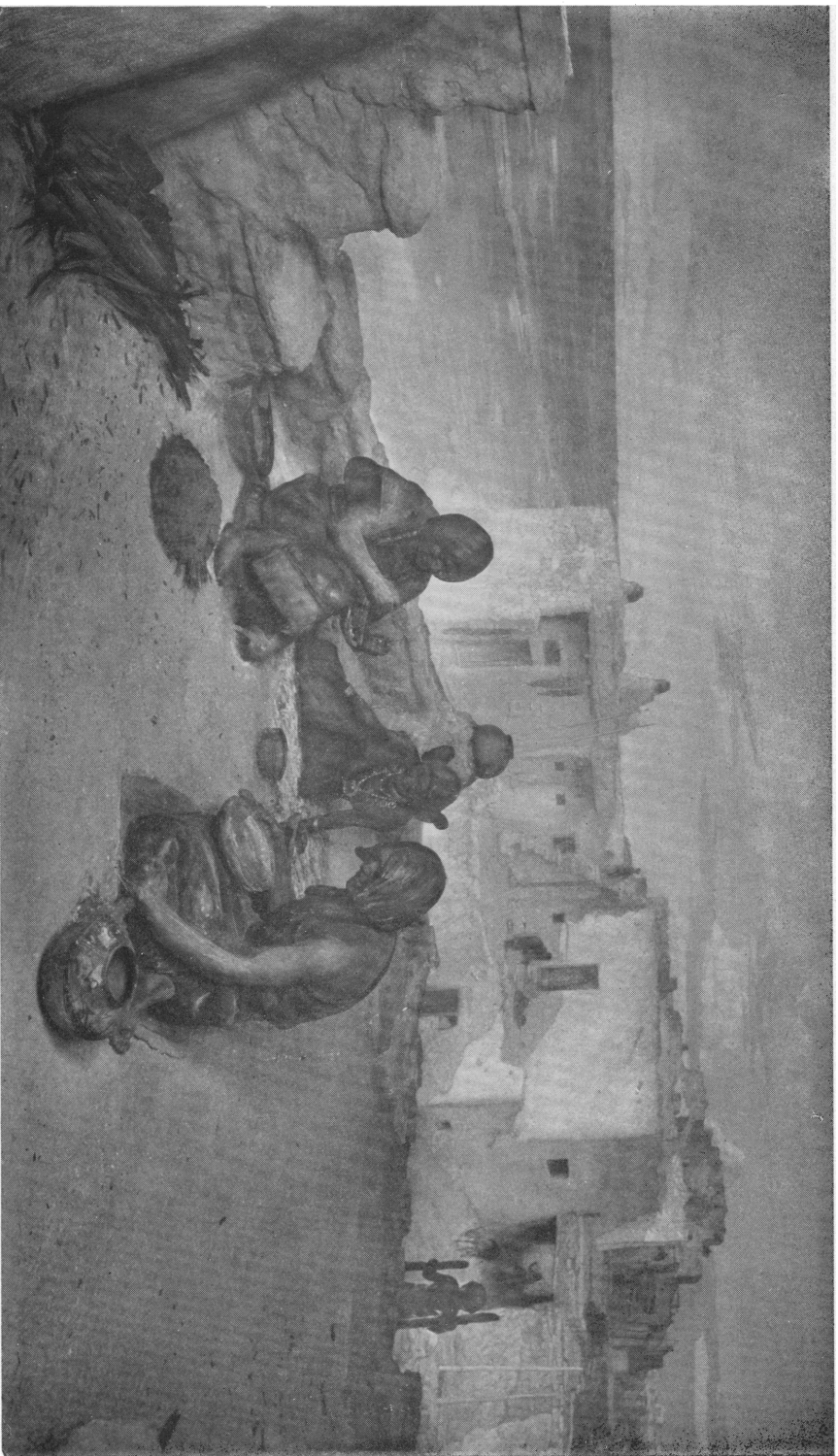
Research in the Museum was greatly strengthened by the establishment of the new position of honorary research associate. In anthropology, Mr. M. D. C. Crawford was appointed Research Associate in Textiles and Dr. George Bird Grinnell

Research Associate in Ethnology. Mr. Crawford is making an intensive study of the fiber and weaving technique of ancient Peru. Assistant Curator Charles W. Mead is investigating design development in Peruvian art. Dr. P. E. Goddard, Curator of Ethnology, is engaged in a phonetic and morphological analysis of the Beaver Indian language as a part of a comparative study of Athapascan speech.

Under the general supervision of Curator Goddard, good progress was made in the development of our exhibits. The most distinctive work of the year was the completion of the Hopi Indian Group in the hall devoted to the native inhabitants of southwestern United States. This depicts Hopi family life in full-sized setting and in the background the well-known village of Walpi. The artists, Mr. Howard McCormick and Mr. Mahonri M. Young, have been very successful with the composition. Early in the year the same artists began a companion group for the Apache which is now in course of construction.

In order to install the Minor C. Keith collection it was necessary for Assistant Curator Spinden to make a complete readjustment of the Mexican Hall. The Keith collection now occupies approximately one-third of the hall, the pottery being in upright and table cases and the heavy stone objects on special mountings. Four metal-frame cases for gold and other precious objects were placed in the center of the hall. To make room for these a series of Maya monuments was removed to the entrance hall on the same floor where they receive superior lighting, but enough remain to represent this important civilization. The Mexican collections were arranged so as to make clear the distinctions between the different culture horizons: Archaic, Toltec, Aztec, etc. The recent field collections from Salvador and the excellent material, especially the stone sculptures, received from the Metropolitan Museum were placed on exhibition.

The exhibit of California Indians which is temporarily in a section of the Southwest Hall was moved to make room for the construction of the Apache group and somewhat rearranged to adjust it to the space available. The final arrange-



DEPARTMENT OF ANTHROPOLOGY  
THE HOPI GROUP IN THE AMERICAN MUSEUM



ment of the North Pacific Coast Hall and the shifting of the Eskimo exhibit were delayed pending the completion of the necessary cases.

The labeling of the important exhibits has proceeded as rapidly as the printed cards came to hand. The series of tribal labels and location maps is now fairly complete and makes our collections far more intelligible to the studious visitor.

In 1914 this department began a series of January lectures dealing with technical subjects in anthropology. This year the subject was "Aboriginal American Art," and the lectures were given by the Curator and Assistant Curator Spinden. The attendance and interest in these lectures are encouraging.

Eleven scientific papers have been published during the year in the *Anthropological Papers*, by members of the department staff.

Publications

## ANATOMY AND PHYSIOLOGY

### DEPARTMENT OF ANATOMY AND PHYSIOLOGY

RALPH W. TOWER, Curator

After a year of work in the Museum, Mr. Clarence R. Halter resigned his position as laboratory assistant on September 30. His place has been taken by Mr. Charles F. Herm, recently of Cornell Medical College and Rockefeller Institute. Mr. Herm is a highly skilled technician, and his scientific training will undoubtedly prove of great value to the institution. Up to the present time this phase of departmental activity has enjoyed but a mere existence, its energies being spent almost entirely on work requisitioned by other departments. With the reorganization, practical and experimental work has been planned which will show by actual demonstration the results of modern physiological thought.

Among the large and difficult preparations which Messrs. Johnstone and Cohn have completed this year, are 2 whales, 1 elk and 1 Asiatic deer. The total activities of this section

of the department have amounted to the preparation of 104 skeletons, 581 skulls and 10 body skeletons.

To the collection of limb bones and the series illustrating the form and structure of the stomach, now on exhibition in the Synoptic Hall, there has been added a series of corrosion models of the kidney which were prepared by the late Dr. C. W. F. Muenchehofe, and also a series of wax models of chondro-cranii.

## PUBLIC HEALTH

### DEPARTMENT OF PUBLIC HEALTH

CHARLES-EDWARD AMORY WINSLOW, Curator

The section of the Hall of Public Health illustrating insect-borne diseases has been pushed rapidly toward completion during the year.

**Exhibition** The exhibits dealing with the fly and its relation to disease have been materially extended. The life history and the favorite breeding places of the fly are shown and the rate of multiplication of the offspring of a single pair during a season is illustrated. A large habitat group shows a section of a stable with its barnyard, a cornfield and orchard in the distance, and in the foreground the principal natural enemies of the fly, including the hen, the toad, swallows, a phebe, a bat, wasps, spiders and centipedes. The relation of the fly to the spread of typhoid fever and infant mortality is illustrated by models, as are practical methods of fly control, including the care of manure and the trapping of larvæ and adult flies.

Substantial progress has also been made in the section of the exhibit devoted to the relation between mosquitoes and disease. The condition of the hospitals at Panama during the French régime is shown, in comparison with the modern hospitals now in operation. Group models illustrate the control of malarial mosquitoes on the Isthmus by ditching and oiling, and the destruction of yellow fever mosquitoes by fumigation. The life history of the malarial mosquito and the destruction

of mosquitoes by oil and by predaceous fish are illustrated. Among the additions to this exhibit are an oil-painting of Camp Lazear, where American Army surgeons demonstrated the mosquito theory of yellow fever, and a photograph of General Gorgas, who so effectively put this theory to the test at Cuba and at Panama.

The most important single addition to the Hall of Public Health during the year is a remarkably detailed and accurate model of the body louse, the carrier of typhus fever. This model is 100 times the length of the insect and was prepared from the study and comparison of many hundreds of specimens by Mr. Ignaz Matusch, who donated it to the Museum.

A colored frieze, illustrating the clouds as the original source of water supply, the storage of water in lakes and its history as it flows down through smaller and then larger streams, has been prepared by Mr. A. Operti for the portion of the hall occupied by the exhibits of water supply sanitation.

The work of the Museum of Living Bacteria was supported during the early part of the year by special gifts from Mr. Felix M. Warburg and Dr. Walter B. James. The assistance thus rendered at a critical period made possible the continuance of this unique service, which the Museum renders to hundreds of institutions of learning all over the world, a service which the disorganization of scientific work in Europe has rendered of peculiar importance. The income from the Morris K. Jesup Fund has finally made it possible to place the work of this laboratory on a more permanent basis and to employ a much-needed additional laboratory assistant.

The laboratory now has 695 different strains of bacteria under cultivation. Newly discovered organisms like those having causal relation to typhus fever and to common colds are being constantly added to the collection. During the year ending December 1, 1915, 3,404 cultures were sent out without charge to laboratories of universities and health departments, making a total of 11,216 cultures distributed since the opening of the laboratory. More than 408 different institutions have benefited by this service.

The department has continued throughout the year to coöperate with the Museum Department of Public Education in keeping up the Public Health Albums and exhibits of insects and bacteria for circulation in the public schools. Supplies of sterile culture media for the demonstration of bacteria have been furnished to many of the high schools in the city.

The staff of the department has coöperated during the year with the New York City Department of Health in a study of the mosquito problem in Central Park and with the New York State Department of Health in a mosquito survey in the neighborhood of the College Settlement at Mt. Ivy. Special studies have been carried on in coöperation with the New York State Commission on Ventilation, on the bacteriology of colds and on the dust content of factory air. During the summer several of the exercises of the New York University School for Health Officers were held at the Museum and lectures were delivered by the department staff. The Hall of Public Health, as heretofore, has been used extensively for instructional purposes by classes from medical schools, schools of pharmacy, colleges and normal schools.

Dr. Kligler has completed during the year a series of studies on the bacteriology of dental decay under the auspices of The First Dental Society of the State of New York, which promises to make a contribution of fundamental importance to this complex problem. Curator Winslow, as Chairman of a committee appointed by the Society of American Bacteriologists to study and report on the classification of the Colon-typhoid group of Bacteria, has begun work upon this subject, with the Museum collection of types as a basis.

Mr. S. D. Kramer, after a year's efficient service, has left the Museum to take a position as Assistant in the Department of Biological Chemistry of Columbia University. His place has been taken by L. V. Coleman, S.B. Mr. Kligler this year received the degree of Doctor of Philosophy at Columbia University and devoted his time largely to special research problems.



## THE LIBRARY

## DEPARTMENT OF BOOKS AND PUBLICATIONS

RALPH W. TOWER, Curator

The activities in the library have not differed greatly from those of other years. It is a pleasure to report that the year has shown a steady growth both in public use and in the addition of valuable publications. The library now numbers 68,636 bound volumes and pamphlets, all of which are readily accessible to students and investigators.

Undoubtedly no department of the Museum feels the growth of the institution and the expansion of its activities more than the library. Each new expedition, each new specimen, each new *department*, each new officer makes new demands upon the resources of the library, resulting in the establishment of exchange with new organizations, the systematic revision of the collections to meet the new conditions and in obtaining new and appropriate material. To avoid the accession of duplicates, infinite patience and care are required in "checking up" before each contemplated purchase. This is particularly the case with many of the older works which were issued as a part of a series, or as a continuation in a periodical but afterward independently published in a separate volume containing in many cases no clue to the original source. This constantly recurring difficulty could be met to a large extent by the employment of a bibliographer whose first duty should be to compile the bibliographies of the many authors whose works have appeared in double form or are hidden in the publications of the foreign societies. Miss Hepburn has just completed such a bibliography on the Buffon series which, strangely enough, seems never heretofore to have been accomplished. In the construction of these bibliographies there is opportunity for genuine scientific research within the library.

The new arrangement of the anthropological section has proved itself of pragmatic value and highly adapted to the demands of the scientists conversant with the subject. A

similar revision of the geological section should next be made and would have been already initiated had not routine work kept over-busy the limited staff.

The most notable accession during the year was made possible by the generosity of Mr. Ogden Mills who presented a copy of the colored edition of the famous "Antiquities of Mexico" by Lord Kingsborough, a monumental work in nine folio volumes, published 1831-48. The treatise contains facsimile reproductions of all native manuscripts from Mexico and Central America known at that time, including many famous codices of the Maya and the Mexicans, and the republication of many valuable government reports relating to Mexican civilization. The work contains one thousand plates, colored by hand from the originals, embracing the remains of Mexican picture-writing, architecture and sculpture, thus giving to the world a record of one of the most wonderful civilizations ever known. There are facsimiles of the ancient paintings and hieroglyphics preserved in the royal libraries of Paris, Berlin, Dresden and Vienna; the Vatican Library; the Borgian Museum at Rome; the Library of the Institute at Bologna and the famous Bodleian Library at Oxford. To-day this work, containing as it does the only reproductions ever issued of a number of very important native manuscripts, is absolutely indispensable to students of Mexican Archæology.

Among other acquisitions of importance are: *Reptilia and Batrachia of Egypt* by John Anderson, 1898; *Die Ebone Fossili* by Ioannes Fridericus Beyschlag, 1734; *Die Käfer Europa's* by Dr. H. C. Küster and G. Kraatz, a set of forty-six parts, 1844-1910; *Association Française pour l'Avancement des Sciences*, 1872-1913, a set of forty-two volumes; *Confessionario en Lengua Mixe con una Construcccion de las Oraciones de la Doctrina Christiana, y un compendio de Voces Mixes, para ensenarse a pronunsiar la dicha Lengua* by P. Fr. Augustin Quintana, 1733; *La Nature*, 1873-1905, a set of thirty-four volumes; *Faunæ Insectorum Germanicæ initia oder Deutschlands Insecten gesammelt*, von D. Georg Wolfgang Franz Panzer, Parts 1-190, 1796-1844; *Bulletin et Mémoires de la Société d'Anthropologie de Paris*, Series

*I-III*, 1860-1898; *Entomologisches Archiv* von Dr. Theodor Thon, Bände I-II, 1829-31; *Musée Entomologique: Illustré Histoire Naturelle Iconographique des Insectes, publiée . . .* sous la direction de J. Rothschild, Tomes I-III, 1876-78; *The General History of the Vast Continent and Islands of America* by Antonio De Herrera, translated into English by Captain John Stevens, Volumes I-VI, 1725-26; *Description of the Fossil Reptilia of South Africa in the Collection of the British Museum* by Richard Owen, Volumes I-II, 1876. Among the treatises particularly desired by the library are the ornithological works of J. Gould and a set of *Collectiones Peregrinationem in Indiam orientalem et Indiam occidentalem* by J. T. and J. I. de Bry.

The activities in the Osborn Library of Vertebrate Palæontology have of necessity been confined to routine work.

The most important accession was a complete set of the *International Catalogue of Scientific Literature*, section relating to Palæontology. Volume IV of *Fossil Vertebrates in the American Museum of Natural History* has been issued and distributed so far as possible to the exchanges. Volume V of the same series is also nearly completed and will soon be ready for distribution. The lack of sufficient stacking space prevents the installation of all the books pertinent to the subject now housed in the general library. An increased physical equipment would be highly welcomed and would make the Osborn Library a still more complete and efficient unit in the subject of Vertebrate Palæontology.

## PUBLICATIONS

J. A. ALLEN, Editor

The technical publications consist of Volume XXXIV of the *Bulletin*, comprising 695 pages, 15 plates, and 293 text figures, with 23 articles, by 13 contributors; parts of six volumes of the *Anthropological Papers*, aggregating 364 pages, 100 text figures; Part VI of Volume I (New Series), of the *Memoirs*, consisting of a monograph of the Sei Whale, by Roy Chapman Andrews

and H. von W. Schulte, with 214 pages of text, 31 plates, and 48 text figures.

These include the *Forty-sixth Annual Report of the Trustees*, Volume XV of the *American Museum Journal*, *Guide Leaflets* Nos. 41-43, *Handbook* No. 5, a third edition of *Animals of the Past* and a second edition of the *Guide Leaflet, Our Common Butterflies*.

The technical and popular publications of the Museum, on which the sum of \$19,000 has been expended during the current year, are used in making exchanges with other scientific organizations, and it is estimated that publications received are equivalent in value to the publications sent out.

On account of the war, the scientific publications received in exchange from abroad during the current year have been fewer than usual.

A detailed list of the papers, arranged by departments, follows:

#### DEPARTMENT OF INVERTEBRATE ZOOLOGY

- T. D. A. Cockerell and Elizabeth Robinson. "Description and Records of Coccidæ." *Bull.* XXXIV, pp. 105-113, 19 text figs.
- T. D. A. Cockerell. "Gastropod Mollusca from the Tertiary Strata of the West." *Bull.* XXXIV, pp. 115-120, 5 text figs.
- T. D. A. Cockerell. "New species of *Unio* from the Tertiary Rocks of Wyoming." *Bull.* XXXIV, pp. 121-126, 4 text figs.
- William Morton Wheeler. "Some additions to the North American Ant-Fauna." *Bull.* XXXIV, pp. 389-421.
- T. D. A. Cockerell and Elizabeth Robinson. "Descriptions and Records of Coccidæ." *Bull.* XXXIV, pp. 423-428, 3 text figs.
- Charles W. Leng. "List of the Carabidæ of Florida." *Bull.* XXXIV, pp. 555-601.
- Frank E. Lutz. "Experiments with *Drosophila ampelophila* concerning Natural Selection." *Bull.* XXXIV, pp. 605-624.

#### DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

- John Treadwell Nichols. "A new Characin Fish from Brazil." *Bull.* XXXIV, pp. 127, 128, 1 text fig.
- John Treadwell Nichols. "Fishes new to Porto Rico." *Bull.* XXXIV, pp. 141-146.
- John Treadwell Nichols. "On *Heterandria sonata* sp. nov. and *Heterandria versicolor* (Gunther) from the Island of Santo Domingo." *Bull.* XXXIV, pp. 603, 604, 3 text figs.

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY

- Roy Chapman Andrews and H. von W. Schulte. "The Sei Whale (*Balaenoptera borealis* Lesson). 1. History, Habits, Anatomy, Osteology, and Relationships, by Roy Chapman Andrews. 2. Anatomy of a Fetus of *Balaenoptera borealis*, by H. von W. Schulte." *Mem. N. S.*, I, pt. VI, pp. 289-502, pls. xix-xlix, 48 text figs.
- W. DeW. Miller. "Notes on Ptilosis, with Special Reference to the Feathering of the Wing." *Bull.* XXXIV, pp. 129-140.
- J. A. Allen. "Review of the South American Sciuridae." *Bull.* XXXIV, pp. 147-309, pls. i-xiv, 21 text figs.
- Frank M. Chapman. "Descriptions of proposed new Birds from Central and South America." *Bull.* XXXIV, pp. 363-388.
- James P. Chapin. "Descriptions of three new Birds from the Belgian Congo." *Bull.* XXXIV, pp. 509-513, 1 text fig.
- W. DeW. Miller. "Three new Genera of Birds." *Bull.* XXXIV, pp. 515-520.
- J. A. Allen. "Notes on the American Deer of the Genus *Mazama*." *Bull.* XXXIV, pp. 521-553.
- J. A. Allen. "New South American Mammals." *Bull.* XXXIV, pp. 625-634.
- Frank M. Chapman. "Diagnoses of apparently new Colombian Birds." *Bull.* XXXIV, pp. 635-662.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY

- W. D. Matthew and Walter Granger. "A Revision of the Lower Eocene Wasatch and Wind River Faunas. Part I. Order Feræ (Carnivora). Suborder Creodonts." By W. D. Matthew. *Bull.* XXXIV, pp. 1-103, 87 text figs.
- W. D. Matthew and Walter Granger. "A Revision of the Lower Eocene Wasatch and Wind River Faunas. Part II. Order Condylarthra. Family Hyopsodontidae." By W. D. Matthew. *Bull.* XXXIV, pp. 311-328, 10 text figs.
- W. D. Matthew and Walter Granger. "A Revision of the Lower Eocene Wasatch and Wind River Faunas. Part III. Order Condylarthra. Families Phenacodontidae and Meniscotheriidae." By Walter Granger. *Bull.* XXXIV, pp. 329-361, 17 text figs.
- W. D. Matthew and Walter Granger. "A Revision of the Lower Eocene Wasatch and Wind River Faunas. Part IV. Entelonychia, Primates, Insectivora (part)." By W. D. Matthew. *Bull.* XXXIV, pp. 429-438, pl. xv, 52 text figs.
- Friedrich von Huene. "On Reptiles of the New Mexican Trias in the Cope Collection." *Bull.* XXXIV, pp. 485-507, 64 text figs.

## DEPARTMENT OF ANTHROPOLOGY

- Robert H. Lowie. "Societies of the Arikara Indians." *Anthrop. Papers*, XI, pt. viii, pp. 645-678.
- Alanson Skinner. "Societies of the Iowa, Kansa, and Ponca Indians." *Anthrop. Papers*, XI, pt. ix, pp. 679-801, 5 text figs.
- Robert H. Lowie. "Dances and Societies of the Plains Shoshone." *Anthrop. Papers*, XI, pt. x, pp. 803-835.
- Charles W. Mead. "Prehistoric Bronze in South America." *Anthrop. Papers*, XII, pt. ii, pp. 15-52, 4 text figs.
- M. D. C. Crawford. "Peruvian Textiles." *Anthrop. Papers*, XII, pt. iii, pp. 52-104, 23 text figs.
- Alanson Skinner. "Associations and Ceremonies of the Menomini Indians." *Anthrop. Papers*, XIII, pt. ii, pp. 167-215, 2 text figs.
- Alanson Skinner and John V. Satterlee. "Folklore of the Menomini Indians." *Anthrop. Papers*, XIII, pt. iii, pp. 217-546.
- N. C. Nelson. "Pueblo Ruins of the Galisteo Basin, New Mexico." *Anthrop. Papers*, XV, pt. i, pp. 1-124, pls. i-iv, 13 text figs., 1 map, 7 plans.
- Robert H. Lowie. "The Sun Dance of the Crow Indians." *Anthrop. Papers*, XVI, pt. i, pp. 1-50, 11 text figs.
- Clark Wissler. "Riding Gear of the North American Indians." *Anthrop. Papers*, XVII, pt. i, pp. 1-38, 27 text figs.
- Clark Wissler. "Costumes of the Plains Indians." *Anthrop. Papers*, XVII, pt. ii, pp. 41-91, 28 text figs.

## POPULAR PUBLICATIONS

- "Forty-sixth Annual Report of the Trustees," 192 pages, 17 plates, 1 map.
- "The Indians of Manhattan Island and Vicinity," by Alanson Skinner. *Guide Leaflet* No. 41, 54 pages, 26 illustrations.
- "The Big Tree and Its Story," by M. C. Dickerson. *Guide Leaflet* No. 42, 23 pages, 9 illustrations.
- "Mammoths and Mastodons," by W. D. Matthew. *Guide Leaflet* No. 43, 26 pages, 12 illustrations.
- "Dinosaurs," by W. D. Matthew. *Handbook* No. 5, 162 pages, 48 illustrations.
- American Museum Journal*, Vol. XV.

### III. MEMBERSHIP

GEORGE H. SHERWOOD, Assistant Secretary

The Museum regards its membership as among its most important influences, not merely because of the considerable income which membership fees provide, but because through the personal interest of Members the Museum is given greater publicity, and its sphere of usefulness is extended. The emphasis that is placed on the financial needs of the Museum is apt to divert attention from the importance of the service thus rendered by Members. The Museum is an institution which belongs to the people, and through membership an opportunity is afforded for many to take a practical part in its development. Let no one think that, because he cannot contribute more than the \$10 for an annual membership fee, his support is not welcome. An Annual Member may render inestimable service in securing other friends for the institution.

The Museum is able to extend certain privileges to Members which cannot be granted to those who are not Members.

Members' Lectures      Members enjoy the use of the Members' Room, which has been expressly fitted for their convenience; Members receive gratis the *American Museum Journal*, a publication of much general interest regarding the activities of the Museum, and including special articles concerning new or important collections or expeditions; Members receive tickets for lectures given at the Museum, and copies of the current *Guide Leaflets* on request. They also may have the services of an instructor to point out and explain important exhibits.

First announcement of all important scientific exploration is always made to our Members. The lectures for Members, given annually, this year comprised four lectures in the spring course and four in the autumn course. One of these lectures was to have been given by Mr. Donald B. MacMillan, the leader of the Crocker Land Expedition, but the unexpected delay in the return of the party made it necessary to postpone this lecture. In its place Members had an opportunity to

see Sir Douglas Mawson's Motion Pictures of the Australasian-Antarctic Expedition.

The fifth and sixth series of Science Stories for the Children of Members were given during the year, the spring course of four lectures including a lecture by Rear Admiral Peary on "Children of the Ice and Snow," and the four in the autumn including one by Mr. James Barnes on "African Animals in Their Home." These lectures are designed to interest children, and they have been largely attended.

Besides the above regular lectures, Members were given an opportunity to hear one by Dr. Joseph Kossuth Dixon on "Life Among the American Indians," in coöperation with the American Scenic and Historic Preservation Society. There were given at the Museum, in coöperation with Columbia University, the biennial "Jesup Lectures," this year by Dr. Charles P. Berkey, the general subject being "Origin and Meaning of Some Fundamental Earth Structures." A course of four lectures on Aboriginal Art of North American Indians was given by members of the anthropological staff.

Including the lectures for pupils of the public schools, the membership fee of \$10 has entitled Members to hear more than seventy-five lectures. In addition to these may be mentioned the papers presented before various scientific societies meeting at the Museum of which Members are notified if desired.

The actual number of new Members enrolled during 1915 was 281; the loss through death and resignation was 318, showing a loss of 37. On December 31, 1915, the total membership was 3,632, divided into classes as follows:

|                            |     |                         |       |
|----------------------------|-----|-------------------------|-------|
| Founders.....              | 3   | Fellows.....            | 39    |
| Benefactors.....           | 1   | Honorary Fellows.....   | 8     |
| Associate Founders.....    | 8   | Life Members.....       | 659   |
| Associate Benefactors..... | 18  | Sustaining Members..... | 72    |
| Patrons.....               | 107 | Annual Members.....     | 2,717 |



NEW MEMBERS

The following was elected an Associate Founder:

J. P. MORGAN

The following was elected an Associate Benefactor:

THOMAS DE WITT CUYLER

The following were elected Patrons:

GEORGE F. BAKER                      MRS. BASHFORD DEAN  
JOHN H. PRENTICE

The following was elected a Fellow:

HENRY FORD

The following were elected Life Members:

|                            |                        |
|----------------------------|------------------------|
| EDWARD W. C. ARNOLD        | HERBERT LANG           |
| GEORGE D. BARRON           | DR. J. V. LAUDERDALE   |
| FREDERIC ALMY CAMMANN      | MRS. JAMES M. LAWTON   |
| JAMES P. CHAPIN            | P. W. LIVERMORE        |
| B. PRESTON CLARK           | MRS. JOHN MAGEE        |
| RUSSELL J. COLES           | JOHN W. MERCER         |
| ALFRED M. COLLINS          | RAYMOND C. OSBURN      |
| MRS. E. C. CONVERSE        | R. G. PACKARD, JR.     |
| LEE GARNETT DAY            | HENRY S. REDMOND       |
| ANDRE DE COPPET            | DR. EMILIE SNETHLAGE   |
| FRANK LEGRAND GILLISS      | MAX WM. STÖHR          |
| ALFRED HAFNER              | JAMES STREAT           |
| MRS. ADRIAN HOFFMAN JOLINE | HERMAN STUTZER         |
| HENRY C. KELSEY            | MISS EDITH W. TIEMANN  |
| LEWIS SAYRE KERR, JR.      | SEWELL TAPPAN TYNG     |
| SAMUEL KISSAM KERR         | FREDERIC DELANO WEEKES |
| JAMES B. WILBUR            |                        |

The following have become Sustaining Members:

MRS. N. M. POND                      J. KENNEDY TOD

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## DECEASED TRUSTEES AND MEMBERS

### *Trustee*

DANIEL GIRAUD ELLIOT

### *Patrons*

DANIEL GIRAUD ELLIOT

JAMES R. ELY

WILLIAM D. SLOANE

JOHN E. PARSONS

CHARLES E. SLOCUM, M.D., LL.D.

HENRY W. POOR

SAMUEL THORNE

### *Fellows*

HENRY W. POOR

R. A. WITTHAUS, M.D.

### *Life Members*

HENRY CHAUNCEY

JOHN E. PARSONS

W. W. COLE

NORMAN B. REAM

MRS. SALLY MORRIS CORY

ALFRED ROELKER

PETER DONALD

THE ARCHDUKE LUDWIG SALVATOR

AMOS F. ENO

CHARLES E. SLOCUM, M.D., LL.D.

JOHN CLINTON GRAY

SAMUEL THORNE

GEN. THOMAS H. HUBBARD

ALFRED G. VANDERBILT

NATHANIEL CUSHING NASH

RICHARD L. WALSH

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**IV. FINANCES, MAINTENANCE, ENDOWMENT**

CHARLES LANIER, Treasurer

The method of recording the financial transactions of the Museum has not differed from that of previous years. The actual bookkeeping and other clerical details pertaining to the accounts have been done at the Museum under the direction of the Bursar, Mr. Frederick H. Smyth. The moneys of all accounts, except the Endowment and Investment Account, have been deposited with the United States Trust Company of New York as Assistant Treasurer, which has also made the usual monthly audit of all the books of the Bursar's office. The customary semi-annual audits of all the Treasurer's books have been made by the Audit Company of New York under the direction of the Auditing Committee. The full details of the financial transactions will be found on pages 99 to 117 of the President's Annual Report.

Under the present system of bookkeeping, all the expenditures in the various accounts are segregated under the several departments, irrespective of the purpose of the expenditure. Formerly, if the total expenditure for any particular purpose, such as expenditures, publication or preparation of specimens, was desired, it was necessary to pick out the items from the departmental expenditures. Such data are very essential for the preparation of clear reports for the Trustees and for the preparation of the budget. To have such information readily accessible, the Bursar has devised a loose-leaf ledger which is kept as a supplement to the regular books of the Treasurer. In this ledger all expenditures are segregated by subject and under each subject apportioned to the respective accounts.

The Bursar has also made a careful study of all the securities of the Permanent Endowment, and we now have available a complete history of the endowment, including the original source of the securities, the original bequest or gift value, and the present market value.

The Trustees' Permanent Endowment consists of the General Endowment Fund, the income of which is unrestricted, and three restricted funds: the Morris K. Trustees' Permanent Endowment Account Jesup Fund, the Matilda W. Bruce Fund and the Jonathan Thorne Memorial Fund, the income from which can be used only for certain stated purposes.

The capital of the General Endowment Fund is \$1,206,627.10, and from its income must be met the cost of general administration.

The present capital of the Morris K. Jesup Fund is \$3,962,523.80, and the income must be applied to the scientific administration of the Museum and not to maintenance. Ultimately the capital of the Morris K. Jesup Fund will be more than \$6,000,000, and will provide for the scientific development of the Museum. The Matilda W. Bruce Fund of \$11,000 is a special endowment for the Department of Mineralogy. Its income can be applied only to enriching the mineral collections. The Jonathan Thorne Memorial Fund, the bequest of Phebe Anna Thorne, is a special endowment to provide for the education of the blind.

The sum actually appropriated by the City for maintenance in 1915 was \$200,000, and this sum has been disbursed in the City Maintenance Account. The operating expenses of the Museum have been considerably greater than this amount, and maintenance charges of \$57,000 have been paid by the Trustees out of the general income.

The receipts in the General Account are considerably greater than ever before. This is due largely to the added income from the Morris K. Jesup Fund. The important items of income are:

|   |             |
|---|-------------|
| Income from General Endowment.....      | \$57,112 85 |
| Income from Morris K. Jesup Fund.....   | 117,473 44  |
| Annual and Sustaining Members.....      | 28,690 00   |
| Personal Contributions of Trustees..... | 38,500 00   |

The Treasurer's books show a balance on hand December 31,  
1915, of..... \$127,419 79

This balance is made up as follows :

|  |          |    |              |
|--|----------|----|--------------|
| Proceeds of four notes of the United States  |          |    |              |
| Trust Company of New York.....               | \$75,000 | 00 |              |
| Sum reserved to meet pledges and obligations |          |    |              |
| of 1915.....                                 | 26,565   | 45 |              |
| Unassigned income of Morris K.               |          |    |              |
| Jesup Fund, 1915.....                        | \$20,499 | 79 |              |
| Unexpended General Income, 1915              | 5,354    | 55 | 25,854 34    |
|  |          |    | \$127,419 79 |

The Special Funds Account, which is composed of the funds given for specified purposes, is indicative of the interest of Trustees and other friends in particular departments or collections. Some of the most important additions to the Museum collections have been made possible through these special gifts. The net receipts in this account have been \$24,464.20.

The money provided for the Crocker Land Expedition has been in the custody of the Treasurer of the Museum, acting ex-officio as disbursing agent for the Crocker Land Committee. Inasmuch as the moneys contributed for this purpose were not direct contributions to the Museum, they have been recorded in a separate account, designated as the Crocker Land Expedition Fund Account. While a number of new contributions have been made to the Crocker Land Expedition Fund, there is still a considerable sum to be raised, including \$9,500 which has been borrowed from the Museum General Account to temporarily finance the expedition.

Respectfully submitted

HENRY FAIRFIELD OSBORN

*President*



# FINANCIAL STATEMENT

## 1915

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### *PERMANENT ENDOWMENT\**

Morris K. Jesup Fund :

|                             |                      |
|-----------------------------|----------------------|
| Bonds and Stocks.....       | \$2,214,838 80       |
| Stocks (Bequest Value)..... | 1,747,685 00         |
|                             | <hr/> \$3,962,523 80 |

|                                    |                      |
|------------------------------------|----------------------|
| General Endowment Fund.....        | 1,166,627 10         |
| John B. Trevor Fund.....           | 25,000 00            |
| Josiah M. Fiske Fund.....          | 10,000 00            |
| Matilda W. Bruce Fund.....         | 11,000 00            |
| Solomon Loeb Fund.....             | 5,000 00             |
| Jonathan Thorne Memorial Fund..... | 26,884 10            |
|                                    | <hr/> \$5,207,035 00 |

Uninvested Cash :

|                                    |                            |
|------------------------------------|----------------------------|
| Morris K. Jesup Fund.....          | 8,231 61                   |
| General Endowment Fund.....        | 1,283 02                   |
| Jonathan Thorne Memorial Fund..... | 2 21                       |
|                                    | <hr/> \$5,216,551 84 <hr/> |

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

## ENDOWMENT AND INVESTMENT ACCOUNT

### RECEIPTS

1915

#### GENERAL ENDOWMENT FUND :

|                                      |            |             |
|--------------------------------------|------------|-------------|
| Balance.....                         | \$3,339 54 |             |
| Estate of Leonidas A. Van Praag..... | 500 00     |             |
| Gift of Mrs. Bancroft Davis.....     | 50 00      |             |
| Life Members.....                    | 2,500 00   |             |
| Proceeds of Sale of Bonds.....       | 19,023 35  | \$25,412 89 |

#### MORRIS K. JESUP FUND:

|                                   |               |
|-----------------------------------|---------------|
| Estate of Maria DeWitt Jesup..... | *1,002,315 00 |
|-----------------------------------|---------------|

#### JONATHAN THORNE MEMORIAL FUND :

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

#### INTEREST ON CREDIT BALANCES :

|                                    |                       |
|------------------------------------|-----------------------|
| Earnings to December 31, 1915..... | 2,623 06              |
|                                    | <u>\$1,030,353 16</u> |

|                                  |   |                               |
|----------------------------------|---|-------------------------------|
| <b>Examined<br/>and Approved</b> | { GEORGE W. WICKERSHAM<br>THOMAS DEWITT CUYLER<br>FREDERICK F. BREWSTER } | <i>Auditing<br/>Committee</i> |
|----------------------------------|---|-------------------------------|

\* In addition to this cash amount of \$1,002,315, the Executor of the Estate of Maria DeWitt Jesup transferred to the Museum securities to the appraised value of \$1,747,685, in part payment of the Jesup Bequest.



*ENDOWMENT AND INVESTMENT ACCOUNT*

## DISBURSEMENTS

1915

## GENERAL ENDOWMENT FUND:

|                                   |             |
|-----------------------------------|-------------|
| Purchase of Bonds and Stocks..... | \$24,129 87 |
|-----------------------------------|-------------|

## MORRIS K. JESUP FUND:

|                           |                   |
|---------------------------|-------------------|
| Purchase of Bonds.....    | \$993,770 00      |
| Expenses of Transfer..... | 313 39            |
|                           | <u>994,083 39</u> |

## INTEREST ON CREDIT BALANCES:

|  |          |
|--|----------|
| Transferred to Interest on Credit Balances, General Account..... | 2,623 06 |
|--|----------|

|                                     |          |
|-------------------------------------|----------|
| CASH ON HAND December 31, 1915..... | 9,516 84 |
|-------------------------------------|----------|

|  |                       |
|--|-----------------------|
|  | <u>\$1,030,353 16</u> |
|--|-----------------------|

CHARLES LANIER, *Treasurer*

E. &amp; O. E.

NEW YORK, *December 31, 1915*

*CITY MAINTENANCE ACCOUNT*

## RECEIPTS

1915

|   |                     |
|---|---------------------|
| Capital Fund, cash on hand January 1, 1915.....                       | \$15,000 00         |
| Department of Parks :   |                     |
| Appropriation for 1915 :  |                     |
| Salaries and Expenses.....  | \$200,000 00        |
| <b>Total net receipts for the maintenance of all departments.....</b> | <b>\$200,000 00</b> |
| Interest on Credit Balances :   |                     |
| Earnings to December 31, 1915.....                                    | 261 88              |
| Loans.....  | 6,500 00            |
|   | <u>\$221,761 88</u> |

|                          |   |                       |                                 |
|--------------------------|---|-----------------------|---------------------------------|
| Examined<br>and Approved | { | GEORGE W. WICKERSHAM  | } <i>Auditing<br/>Committee</i> |
|                          |   | THOMAS DEWITT CUYLER  |                                 |
|                          |   | FREDERICK F. BREWSTER |                                 |

**CITY MAINTENANCE ACCOUNT\*****DISBURSEMENTS****1915**

|  |                     |
|--|---------------------|
| Geology and Invertebrate Palæontology.....                                     | \$2,290 20          |
| Mineralogy .....   | 1,842 29            |
| Mammalogy and Ornithology.....   | 4,482 38            |
| Vertebrate Palæontology.....   | 4,356 37            |
| Anthropology .....   | 5,852 51            |
| Ichthyology and Herpetology .....  | 3,049 39            |
| Invertebrate Zoölogy.....  | 5,629 35            |
| Public Health.....   | 1,921 57            |
| Woods and Forestry.....  | 16 00               |
| Library .....  | 8,843 99            |
| Public Education.....  | 4,836 77            |
| Preparation and Exhibition.....  | 984 68              |
| Heating and Lighting.....  | 20,997 81           |
| Repairs and Installation.....  | 34,683 65           |
| General Supplies and Expenses.....   | 10,111 47           |
| Administration .....   | 90,101 57           |
| <b>Total net disbursements for the maintenance<br/>of all departments.....</b> | <b>\$200,000 00</b> |
| Interest on Credit Balances :  |                     |
| Transferred to Interest on Credit Balances,<br>General Account.....            | 261 88              |
| Loans .....  | 6,500 00            |
| Capital Fund :   |                     |
| Cash on hand December 31, 1915.....  | 15,000 00           |
|  | <u>\$221,761 88</u> |

**CHARLES LANIER, Treasurer****E. & O. E.****NEW YORK, December 31, 1915**

\* The annual appropriation of the City can be used only for the *maintenance* of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions. The deficiency in *maintenance* for 1915, amounting to \$57,000, has been met from the Trustees' General Account.

## GENERAL ACCOUNT

## RECEIPTS

1915

Cash on hand January 1, 1915 :

|                                   |            |             |
|-----------------------------------|------------|-------------|
| Cash in Bank.....                 | \$6,877 31 |             |
| Loan Receivable from Crocker Land |            |             |
| Expedition Fund Account.....      | 9,500 00   | \$16,377 31 |

Income from General Endowment Fund..... \$57,112 85

Income from Morris K. Jesup Fund..... 117,473 44

Interest on Credit Balances..... 3,306 79

Annual Members..... 26,840 00

Sustaining Members..... 1,850 00

Sales and Exchanges..... 1,170 79

Sale of Publications..... 2,643 98

Contributions of Trustees for General Receipts :

|                            |            |                      |
|----------------------------|------------|----------------------|
| Frederick F. Brewster..... | \$2,500 00 |                      |
| Joseph H. Choate.....      | 1,000 00   |                      |
| R. Fulton Cutting.....     | 1,000 00   |                      |
| Thomas De Witt Cuyler..... | 1,000 00   |                      |
| Cleveland H. Dodge.....    | 5,000 00   |                      |
| James Douglas.....         | 1,000 00   |                      |
| Adrian Iselin, Jr.....     | 2,000 00   |                      |
| Arthur Curtiss James.....  | 5,000 00   |                      |
| A. D. Juilliard.....       | 2,500 00   |                      |
| Charles Lanier.....        | 1,000 00   |                      |
| Ogden Mills.....           | 2,500 00   |                      |
| J. P. Morgan.....          | 5,000 00   |                      |
| Percy R. Pyne.....         | 2,500 00   |                      |
| John B. Trevor.....        | 1,000 00   |                      |
| George W. Wickersham.....  | 500 00     |                      |
| Felix M. Warburg.....      | 5,000 00   | 38,500 00 248,897 85 |

**Total net receipts for the development of all departments..... \$265,275 16**

Loans:

|   |          |           |
|---|----------|-----------|
| City Maintenance Account.....             | 6,500 00 |           |
| Bursar's Account.....                     | 7,500 00 |           |
| Crocker Land Expedition Fund Account..... | 2,000 00 | 16,000 00 |

Proceeds of Notes held by United States Trust Co. of N. Y..... 75,000 00

\$356,275 16

Examined and Approved { GEORGE W. WICKERSHAM  
THOMAS DEWITT CUYLER  
FREDERICK F. BREWSTER } Auditing Committee

# GENERAL ACCOUNT\*

## DISBURSEMENTS

1915

|   |             |                     |
|---|-------------|---------------------|
| Geology and Invertebrate Palæontology.....  | \$7,659 95  |                     |
| Mineralogy.....   | 2,139 97    |                     |
| Mammalogy and Ornithology.....  | 29,596 14   |                     |
| Vertebrate Palæontology.....  | 23,734 13   |                     |
| Professor Osborn's Research and Publication Fund.....                               | 3,794 30    |                     |
| Anthropology.....   | 23,034 88   |                     |
| Ichthyology and Herpetology.....  | 4,855 35    |                     |
| Dr. Dean's Research and Publication Fund.....                                       | 1,200 00    |                     |
| Invertebrate Zoölogy.....   | 11,417 66   |                     |
| Anatomy and Physiology.....   | 2,621 03    |                     |
| Public Health.....  | 1,681 94    |                     |
| Woods and Forestry.....   | 2,200 50    |                     |
| Library.....  | 8,690 22    |                     |
| Publications.....   | 18,932 21   |                     |
| Public Education.....   | 4,635 09    |                     |
| Preparation and Exhibition.....   | 23,755 91   |                     |
| Heating and Lighting.....   | 2,438 35    |                     |
| Repairs and Installation.....   | 3,774 97    |                     |
| General Supplies and Expenses.....  | 19,233 67   |                     |
| Administration.....   | 7,906 37    |                     |
| Pension Fund.....   | 8,290 61    |                     |
| Interest on Bank Loans.....   | 1,262 12    |                     |
| <b>Total net disbursements for the development of all departments.....</b>          |             | <b>\$212,855 37</b> |
| <b>Loans:</b>   |             |                     |
| City Maintenance Account.....   | 6,500 00    |                     |
| Bursar's Account.....   | 7,500 00    |                     |
| Crocker Land Expedition Fund Account.....   | 2,000 00    | 16,000 00           |
| <b>Cash on hand December 31, 1915:</b>  |             |                     |
| Cash in Bank.....   | \$42,919 79 |                     |
| Loan Receivable from Crocker Land Expedition Fund Account....                       | 9,500 00    | 52,419 79           |
| Proceeds of Notes held by United States Trust Co. of N. Y., to meet overdrafts..... | 75,000 00   | †127,419 79         |
|   |             | <b>\$356,275 16</b> |

E. & O. E.

CHARLES LANIER, *Treasurer*

NEW YORK, *December 31, 1915*

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

† The Treasurer's books show a balance on hand December 31, 1915, of..... \$127,419 79

This balance is made up as follows:

|  |             |                     |
|--|-------------|---------------------|
| Proceeds of four notes of the United States Trust Company of New York..... | \$75,000 00 |                     |
| Sum reserved to meet pledges and obligations of 1915.....                  | 26,505 45   |                     |
| Unassigned income of Morris K. Jesup Fund, 1915..                          | \$20,499 79 |                     |
| Unexpended General Income, 1915.....                                       | 5,354 55    |                     |
|  |             | <b>25,854 34</b>    |
|  |             | <b>\$127,419 79</b> |

# *SPECIAL FUNDS ACCOUNT*

## RECEIPTS

1915

### GEOLOGY AND INVERTEBRATE PALÆONTOLOGY:

#### ANGELO HEILPRIN EXPLORING FUND:

|                                 |          |            |
|---------------------------------|----------|------------|
| Balance .....                   | \$500 00 |            |
| Mr. and Mrs. Paul J. Sachs..... | 500 00   | \$1,000 00 |

### MINERALOGY:

#### MATILDA W. BRUCE FUND:

|                |  |        |
|----------------|--|--------|
| Interest ..... |  | 660 00 |
|----------------|--|--------|

### MAMMALOGY AND ORNITHOLOGY:

#### CRANDALL OÖLOGICAL FUND:

|               |          |  |
|---------------|----------|--|
| Balance ..... | 1,160 00 |  |
|---------------|----------|--|

#### WHALE MODEL FUND:

|               |          |  |
|---------------|----------|--|
| Balance ..... | 1,000 00 |  |
|---------------|----------|--|

#### SOUTH AMERICAN EXPLORATION FUND:

|               |        |  |
|---------------|--------|--|
| Balance ..... | 674 55 |  |
|---------------|--------|--|

#### PREPARATION OF AFRICAN COLLECTIONS FUND:

|               |      |  |
|---------------|------|--|
| Balance ..... | 5 85 |  |
|---------------|------|--|

#### ROOSEVELT SOUTH AMERICAN EXPEDITION FUND:

|                         |            |          |
|-------------------------|------------|----------|
| Balance .....           | \$1,796 86 |          |
| Cleveland H. Dodge..... | 2,000 00   | 3,796 86 |

#### SOUTH GEORGIA EXPEDITION FUND No. 2:

|              |          |  |
|--------------|----------|--|
| Balance..... | 1,000 00 |  |
|--------------|----------|--|

#### ASIATIC ZOÖLOGICAL EXPEDITION FUND:

|  |        |          |
|--|--------|----------|
| Mrs. Adrian Hoffman Joline.....                              | 100 00 |          |
| Childs Frick.....  | 100 00 |          |
| Transferred from South Georgia Expedition Fund<br>No. 2..... | 500 00 | 700 00   |
|  |        | 8,337 26 |

### VERTEBRATE PALÆONTOLOGY:

#### VERTEBRATE PALÆONTOLOGY FIELD FUNDS:

|                             |          |  |
|-----------------------------|----------|--|
| Henry Fairfield Osborn..... | 2,000 00 |  |
|-----------------------------|----------|--|

#### PLEISTOCENE FAUNAL LIFE SCENES FUND:

|                   |          |  |
|-------------------|----------|--|
| J. P. Morgan..... | 2,000 00 |  |
|-------------------|----------|--|

#### HORSE EXPLORATION FUND:

|                       |        |          |
|-----------------------|--------|----------|
| Frank K. Sturgis..... | 250 00 | 4,250 00 |
|-----------------------|--------|----------|

*Carried forward.....* **\$14,247 26**

## SPECIAL FUNDS ACCOUNT

### DISBURSEMENTS

1915

#### GEOLOGY AND INVERTEBRATE PALÆONTOLOGY:

##### ANGELO HEILPRIN EXPLORING FUND:

|  |          |
|--|----------|
| Expenses of Field Work in West Indies..... | \$688 96 |
|--|----------|

#### MINERALOGY:

##### MATILDA W. BRUCE FUND:

|                                    |        |
|------------------------------------|--------|
| Purchase of mineral specimens..... | 660 00 |
|------------------------------------|--------|

#### MAMMALOGY AND ORNITHOLOGY:

##### SOUTH AMERICAN EXPLORATION FUND:

|  |          |
|--|----------|
| Expenses of field assistant to Panama..... | \$126 00 |
|--|----------|

##### PREPARATION OF AFRICAN COLLECTIONS FUND:

|  |      |
|--|------|
| Transferred to Preparation and Exhibition,<br>General Account, for work on African<br>model..... | 5 85 |
|--|------|

##### ROOSEVELT SOUTH AMERICAN EXPEDITION FUND:

|  |          |
|--|----------|
| Purchase of equipment and expenses of field<br>work in Colombia..... | 3,558 98 |
|--|----------|

##### SOUTH GEORGIA EXPEDITION FUND No. 2:

|   |        |
|---|--------|
| Transferred to Asiatic Zoölogical Expedition<br>Fund for field work in China..... | 500 00 |
|---|--------|

##### ASIATIC ZOÖLOGICAL EXPEDITION FUND:

|   |        |          |
|---|--------|----------|
| Expenses of Field Assistant to China..... | 250 00 | 4,440 83 |
|---|--------|----------|

#### VERTEBRATE PALÆONTOLOGY:

##### VERTEBRATE PALÆONTOLOGY FIELD FUNDS:

|  |          |
|--|----------|
| Transferred to Vertebrate Palæontology, Gen-<br>eral Account, for special work in the depart-<br>ment..... | 2,000 00 |
|--|----------|

##### PLEISTOCENE FAUNAL LIFE SCENES FUND:

|   |          |
|---|----------|
| For Murals in Hall of the Age of Man..... | 2,000 00 |
|---|----------|

##### HORSE EXPLORATION FUND:

|   |        |          |
|---|--------|----------|
| Transferred to Vertebrate Palæontology, Gen-<br>eral Account, for services of assistant.... | 250 00 | 4,250 00 |
|---|--------|----------|

|                      |             |
|----------------------|-------------|
| Carried forward..... | \$10,039 79 |
|----------------------|-------------|

## SPECIAL FUNDS ACCOUNT

### RECEIPTS

1915

*Brought forward*.....\$14,247 26

#### ANTHROPOLOGY:

##### EAST ASIATIC FUND:

Balance ..... \$2,335 49

##### ANTHROPOLOGY OF THE SOUTHWEST FUND:

Balance ..... \$1,842 22  
 Archer M. Huntington..... 10,000 00  
 Transferred from Mural Paintings  
 Fund ..... 1,000 00 12,842 22

##### MURAL PAINTINGS FUND:

Balance..... 1,000 00

##### PLAINS INDIANS MURAL FUND:

Mrs. Andrew Carnegie..... 50 00  
 Alex. Smith Cochran..... 100 00  
 James Deering..... 50 00  
 Mrs. E. S. Harkness..... 100 00  
 Otto H. Kahn..... 30 00  
 Mrs. V. Everit Macy..... 50 00  
 Mrs. J. R. Morron ..... 25 00  
 Miss Anne Morgan..... 50 00  
 Mrs. Paul Morton..... 25 00  
 Mrs. J. D. Ryan..... 25 00  
 Mrs. W. H. Truesdale..... 5 00  
 Mrs. Payne Whitney..... 10 00  
 William M. Williams..... 50 00  
 Mrs. Marshall Orme Wilson..... 200 00 770 00

##### AFRICAN ETHNOLOGICAL FUND:

Gift in memory of Mrs. Samuel Lawrence ... 1,000 00

##### ICA COLLECTION FUND:

A. D. Juilliard..... 1,000 00 18,947 71

#### ICHTHYOLOGY AND HERPETOLOGY:

##### DODGE ICHTHYOLOGY FUND:

Balance..... 475 48

##### FISH BIBLIOGRAPHY FUND:

Dr. and Mrs. Bashford Dean..... 2,200 00 2,675 48

*Carried forward*..... \$35,870 45



## SPECIAL FUNDS ACCOUNT

### DISBURSEMENTS

1915

*Brought forward*.....\$10,039 79

#### ANTHROPOLOGY :

##### ANTHROPOLOGY OF THE SOUTHWEST FUND :

Expenses of field work, purchase of specimens and preparation of Hopi and Apache Groups..... \$7,633 24

##### MURAL PAINTINGS FUND :

Transferred to Anthropology of the Southwest Fund for groups..... 1,000 00

##### PLAINS INDIANS MURAL FUND :

Payment for preparation of Murals for the Plains Indians Hall..... 770 00

##### AFRICAN ETHNOLOGICAL FUND :

Purchase of collection..... \$450 00

Transferred to Anthropology, General Account, for purchase of collection..... 550 00      1,000 00

##### ICA COLLECTION FUND :

Purchase of collection from Ica, Peru..... 1,000 00      11,403 24

#### ICHTHYOLOGY AND HERPETOLOGY :

##### DODGE ICHTHYOLOGY FUND :

Purchase of specimens..... 459 31

##### FISH BIBLIOGRAPHY FUND :

Services in preparing Bibliography of Fishes. 1,910 75      2,370 06

*Carried forward*.....\$23,813 09



**SPECIAL FUNDS ACCOUNT**

## DISBURSEMENTS

1915

*Brought forward* .....\$23,813 09

## INVERTEBRATE ZOOLOGY :

## TAHITI FUND :

Services in connection with Tahiti Monograph.....\$82 41

Transferred to Preparation and Exhibition, General Account, for illustrations for Tahiti Monograph.....112 59     \$195 00

## INVERTEBRATE ZOOLOGICAL EXPLORATION FUND :

Local field work..... 38 66

## SANTO DOMINGO ENTOMOLOGICAL EXPEDITION FUND:

For expenses of field work in Santo Domingo.     300 00     533 66

## PUBLIC HEALTH :

## PUBLIC HEALTH FUND :

Transferred to Public Health, General Account, for the work of the department..... 458 21

## PUBLIC EDUCATION:

## JONATHAN THORNE MEMORIAL FUND :

For services of instructors, transportation of the blind and expenses of special lectures..... 633 12

## PUBLICATIONS :

## MUSEUM JOURNAL FUND :

Transferred to Publications, General Account, for special inserts for Journal..... 450 00

**Total net disbursements for the development of specific departments..... \$25,888 08**

## INTEREST ON CREDIT BALANCES :

Transferred to Interest on Credit Balances, General Account.. 410 76

CASH ON HAND DECEMBER 31, 1915..... 15,602 41

\$41,901 25

CHARLES LANIER, *Treasurer*

E. &amp; O. E.

NEW YORK, December 31, 1915

*CROCKER LAND EXPEDITION FUND ACCOUNT*

## RECEIPTS

1915

CASH ON HAND JANUARY 1, 1915..... \$89 34

|                             |            |           |
|-----------------------------|------------|-----------|
| University of Illinois..... | \$2,500 00 |           |
| J. Sanford Barnes.....      | 25 00      |           |
| Henry C. Bryant.....        | 100 00     |           |
| Zenas Crane.....            | 1,000 00   |           |
| Cleveland H. Dodge.....     | 500 00     |           |
| Frederic A. Fisher.....     | 10 00      |           |
| James B. Ford.....          | 5,000 00   |           |
| L. D. Kellogg.....          | 500 00     |           |
| Frank R. Kimball.....       | 5 00       |           |
| M. J. Look.....             | 100 00     |           |
| Ogden Mills.....            | 1,000 00   |           |
| Louis F. Mohr.....          | 5 00       |           |
| Jacob H. Schiff.....        | 500 00     |           |
| Mortimer L. Schiff.....     | 250 00     |           |
| J. Frederic Tams.....       | 10 00      |           |
| Paul Tuckerman.....         | 100 00     |           |
| Andrew Grey Weeks.....      | 25 00      | 11,630 00 |

## LOAN ACCOUNT:

General Account..... 11,500 00

## GENERAL ACCOUNT:

Geology for 1914..... 1,400 00

## INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1915..... 51 03  
\$24,670 37

Examined and Approved { GEORGE W. WICKERSHAM } *Auditing*  
 { THOMAS DEWITT CUYLER } *Committee*  
 { FREDERICK F. BREWSTER }

*CORPORATE STOCK ACCOUNT*

## RECEIPTS

1915

DEPARTMENT OF PARKS..... \$151 83

## INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1915..... 09 \$151 92

Examined and Approved { GEORGE W. WICKERSHAM } *Auditing*  
 { THOMAS DEWITT CUYLER } *Committee*  
 { FREDERICK F. BREWSTER }

*INCIDENTAL ACCOUNT*

## RECEIPTS

1915

CASH ON HAND JANUARY 1, 1915..... \$96 00

DEPARTMENT OF EDUCATION..... \$1,210 28

RECEIPTS FROM INDIVIDUALS AND SOCIETIES..... 1,875 82

## INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1915..... 5 37 3,091 47  
\$3,287 47

Examined and Approved { GEORGE W. WICKERSHAM } *Auditing*  
 { THOMAS DEWITT CUYLER } *Committee*  
 { FREDERICK F. BREWSTER }

## CROCKER LAND EXPEDITION FUND ACCOUNT

### DISBURSEMENTS

1915

|   |                    |
|---|--------------------|
| Disbursements of 1913, met by loan from General Account still unsubscribed..... | \$9,500 00         |
| Materials, Supplies and Equipment.....  | \$1,357 83         |
| Incidental Expenses.....  | 1,000 52           |
| Salaries.....   | 2,100 00           |
| Transportation.....   | 5,171 14           |
| Loan Account.....   | 2,000 00           |
| Cash on hand December 31, 1915.....   | 3,540 88           |
|   | <u>\$24,670 37</u> |

CHARLES LANIER, *Treasurer*

E. & O. E.,  
NEW YORK, *December 31, 1915*

## CORPORATE STOCK ACCOUNT

### DISBURSEMENTS

1915

|   |                    |
|---|--------------------|
| PAYROLLS OF MECHANICS, ETC.....             | \$151 83           |
| INTEREST ON CREDIT BALANCES:                |                    |
| TRANSFERRED TO INTEREST ON CREDIT BALANCES, |                    |
| GENERAL ACCOUNT.....                        | 09 <u>\$151 92</u> |

CHARLES LANIER, *Treasurer*

E. & O. E.,  
NEW YORK, *December 31, 1915*

## INCIDENTAL ACCOUNT

### DISBURSEMENTS

1915

|   |                        |
|---|------------------------|
| DEPARTMENT OF EDUCATION:                    |                        |
| EXPENSES OF LOANING SLIDES TO SCHOOLS.....  | \$1,210 28             |
| DISBURSEMENTS FOR INDIVIDUALS AND SOCIETIES | 1,612 22               |
| INTEREST ON CREDIT BALANCES:                |                        |
| TRANSFERRED TO INTEREST ON CREDIT BALANCES, |                        |
| GENERAL ACCOUNT.....                        | 5 37 <u>\$2,827 87</u> |
| CASH ON HAND DECEMBER 31, 1915.....         | 359 60                 |
|   | <u>\$3,187 47</u>      |

CHARLES LANIER, *Treasurer*

E. & O. E.,  
NEW YORK, *December 31, 1915*



FINANCIAL STATEMENT  
OF THE  
PENSION FUND  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY  
  
1915

---

*INVESTED FUNDS*

|                      |   |             |
|----------------------|---|-------------|
| ENDOWMENT FUND.....  | \$1,127 74                                |             |
| INVESTMENT FUND..... | 38,872 26                                 |             |
|                      | <hr style="width: 50%; margin-left: 0;"/> | \$40,000 00 |

~~PENSION FUND~~ ACCOUNT

## RECEIPTS

1915

CASH ON HAND JANUARY 1, 1915..... \$9,079 25

## CONTRIBUTIONS OF SUBSCRIBING EMPLOYEES:

## Deductions of 3% from Payrolls of

|                                |            |            |
|--------------------------------|------------|------------|
| City Maintenance Account ..... | \$4,937 72 |            |
| General Account.....           | 3,033 69   |            |
| Special Funds Account .....    | 64 84      |            |
| Corporate Stock Account.....   | 4 56       |            |
| Incidental Account.....        | 35 59      | \$8,076 40 |

## Personal Contributions of Subscribing

|                 |        |          |
|-----------------|--------|----------|
| Employees ..... | 214 21 | 8,290 61 |
|-----------------|--------|----------|

## CONTRIBUTIONS OF BOARD OF TRUSTEES:

|  |          |
|--|----------|
| To Equal Contributions of Subscribing Employees..... | 8,290 61 |
|--|----------|

INTEREST ON INVESTMENT FUND..... 1,150 78

INTEREST ON ENDOWMENT FUND..... 50 74

INTEREST ON CREDIT BALANCES..... 187 92

BURSAR'S ACCOUNT ..... 500 00

\$27,549 91

|              |   |                    |   |           |
|--------------|---|--------------------|---|-----------|
| Examined and | { | ADRIAN ISELIN, JR. | { | Auditing  |
| Approved     |   | PERCY R. PYNE      |   | Committee |

~~PENSION FUND~~—SPECIAL FUNDS ACCOUNT

## RECEIPTS

1915

## SPECIAL CONTRIBUTIONS NO. 1:

|                                   |         |
|-----------------------------------|---------|
| Cash on hand January 1, 1915..... | \$50 00 |
|-----------------------------------|---------|

## SPECIAL CONTRIBUTIONS NO. 2:

|                             |         |        |
|-----------------------------|---------|--------|
| Arthur Curtiss James.....   | \$15 00 |        |
| Charles Lanier.....         | 15 00   |        |
| A. D. Juilliard.....        | 15 00   |        |
| Adrian Iselin, Jr.....      | 30 00   |        |
| Cleveland H. Dodge.....     | 25 00   |        |
| Ogden Mills.....            | 15 00   |        |
| Henry Fairfield Osborn..... | 15 00   |        |
| Felix M. Warburg.....       | 25 00   |        |
| J. P. Morgan.....           | 15 00   | 170 00 |

## INTEREST ON CREDIT BALANCES:

|                                    |       |
|------------------------------------|-------|
| Earnings to December 31, 1915..... | 10 60 |
|------------------------------------|-------|

\$230 60

|              |   |                    |   |           |
|--------------|---|--------------------|---|-----------|
| Examined and | { | ADRIAN ISELIN, JR. | { | Auditing  |
| Approved     |   | PERCY R. PYNE      |   | Committee |



*PENSION FUND ACCOUNT*

## DISBURSEMENTS

1915

|   |       |        |                    |
|---|-------|--------|--------------------|
| RETURN OF CONTRIBUTIONS.....                                    | \$575 | 36     |                    |
| INTEREST ON CONTRIBUTIONS RETURNED.....                         | 15    | 87     | \$591 23           |
| SERVICE PENSION.....  | 277   | 50     |                    |
| DEATH GRATUITIES PAID UNDER SECTION 13.....                     | 918   | 90     | 1,196 40           |
| PURCHASE OF SECURITIES:   |       |        |                    |
| Investment Fund.....  |       | 19,863 | 19                 |
| EXPENSES .....  |       | 58     | 57                 |
| LOAN ACCOUNT.....   |       | 500    | 00                 |
| CASH ON HAND DECEMBER 31, 1915:                                 |       |        |                    |
| Deposited with United States Trust Company of<br>New York ..... | 4,840 | 52     |                    |
| Deposited with Colonial Bank (Bursar's Account)...              | 500   | 00     | 5,340 52           |
|   |       |        | <u>\$27,549 91</u> |

E. &amp; O. E.

CHARLES LANIER, *Treasurer*NEW YORK, *December 31, 1915**PENSION FUND—SPECIAL FUNDS ACCOUNT*

## DISBURSEMENTS

1915

|  |      |    |                 |
|--|------|----|-----------------|
| SPECIAL CONTRIBUTIONS NO. 1:                     |      |    |                 |
| Payment for Relief .....                         | \$50 | 00 |                 |
| SPECIAL CONTRIBUTIONS NO. 2:                     |      |    |                 |
| Payment for Relief.....                          | 150  | 00 | \$200 00        |
| CASH ON HAND DECEMBER 31, 1915:                  |      |    |                 |
| Deposited with U. S. Trust Co. of New York ..... |      | 30 | 60              |
|  |      |    | <u>\$230 60</u> |

E. &amp; O. E.

CHARLES LANIER, *Treasurer*NEW YORK, *December 31, 1915*

# LIST OF ACCESSIONS, 1915

## DEPARTMENT OF PUBLIC EDUCATION

### BY GIFT

- JAMES BARNES, New York City.  
6,000 feet of motion picture film of the  
Barnes-Kearton Expedition across cen-  
tral Africa.
- L. A. BAUM, Newark, N. J.  
Eskimo doll.
- WALTER L. BEASLEY, New York City.  
7 Negatives showing methods of photo-  
graphing horses to get attitudes for  
skeletons (work of Mr. S. H. Chubb).
- D. H. BURRELL & COMPANY, Little Falls,  
N. Y.  
2 Lantern slides of the Burrell Milker.
- A. E. BUTLER, New York City.  
3 Autochromes of Rocky Mountain land-  
scapes.
- HOWARD H. CLEAVES, New Brighton, N. Y.  
2 Lantern slides showing the banding of  
young birds.
- DEPARTMENT OF ANTHROPOLOGY, Transfer.  
124 Samoan photographs.
- P. C. FISHER, New York City.  
2 Gray Squirrel skins.
- HENRY FORD, Detroit, Mich.  
Marble bust of John Burroughs, by  
C. S. Pietro.
- ARTHUR D. GABAY, New York City.  
American flag (silk).
- J. S. HAYER, New York City.  
Mounted Alligator.
- MISS A. B. JENNINGS, New York City.  
1 Specimen of shelf or bracket fungus,  
of record size, from Maine.
- ALGOT LANGE, New York City.  
700 Feet of motion picture film of South  
American subjects.
- JOHN TREADWELL NICHOLS, Englewood,  
N. J.  
4 Film negatives of Dogfish and Night  
Hake.
- HARMON B. NIVER, Brooklyn, N. Y.  
85 Porto Rican negatives.

- WILLIAM H. RAU, Philadelphia, Pa.  
9 Photographs of Kerguelen Island con-  
sisting of 1 Albatross, 2 Penguins and  
6 scenic views.
- C. C. RUBINS, New York City.  
Scarlet Tanager in the flesh.
- PERCY SHAW, New York City.  
2 Negatives and 2 positives of model of  
House-fly, 1 Negative of model of Rat  
Flea.
- H. A. SIEVERS, New York City.  
1 Gray Squirrel in the flesh.
- M. P. SKINNER, Yellowstone Park, Wyo.  
360 Feet of motion picture film of geysers  
and large game animals from Yellow-  
stone Park.
- MRS. CHARLES A. STADLER, New York  
City.  
A group of insects, "Lunch of the Big  
Bugs."
- J. STANLEY-BROWN, New York City.  
334 Negatives made on Pribilof Islands
- MRS. L. M. STANTON, New York City.  
1 Century plant and 1 Aspidistra.
- MRS. J. A. TYLER, East Hampton, L. I.  
15 Mounted birds and mammals.

### BY PURCHASE

- 6 Photographs of California Big Trees.  
23 Panoramic views of Panama Canal.

## DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY

### BY GIFT

- CHARLES C. BIRDSALL, New York City.  
1 Specimen fossil Coral from west shore  
of Orange Lake, N. Y.
- HENRY BOOTH, Poughkeepsie, N. Y.  
30 Specimens sand-carved pebbles, Massa-  
chusetts and Long Island.
- J. TURNER BRAKELEY, Hornerstown, N. J.,  
through R. P. Dow, New York City.  
1 Specimen petrified pine, Lahaway Plan-  
tation, N. J.

BARNUM BROWN, New York City.  
200 Specimens of fossil invertebrates and plants from Belly River formation, Alberta, Canada.

WILLIAM N. CLARK, New York City.  
1 Specimen *Septaria* (Hamilton Group), east shore of Seneca Lake, N. Y.

COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz.  
1 Bottle of concentrates.

W. T. GOULD, Reno, Nev.  
3 Samples of volcanic sand, Mt. Lassen, Cal.

L. P. GRATACAP, West New Brighton, S. I.  
10 Valves of *Arca transversa* and 2 valves of *Arca (noctia) limula*, Southampton, N. Y.

JOHN A. MANLEY, New Brunswick, N. J.  
8 Specimens of banded trap rock, Chimney Rock, N. J.

DAVID S. MARSHALL, Hollis, L. I.  
140 Rock specimens and 8 samples of sand, Hollis and Jamaica, L. I.

GEORGE MERRITT, Spring Valley, Cal.  
5 Concentrates from the Colorado Desert, southwest of the "Salt Sea."

W. R. MINDS, New York City.  
2 Specimens of *Annularia longifolia*.

J. P. MORGAN, New York City.  
Lacroix collection of specimens from pegmatite veins of the United States.

H. PAPKE, West Hoboken, N. J.  
Block of Chondrodite and block of Muscovite, Tillie Foster Mine, Brewster, N. Y.

GEORGE REUTHER, Jersey City, N. J.  
Block of Schoharie drift containing fossils, Urlton, N. Y.

JOSÉ M. ROSALES, Bogotá, Colombia.  
70 Specimens of Cretaceous fossils, eastern range of the Colombian Andes, South America.

M. P. SKINNER, Yellowstone Park, Wyo.  
100 Fossil plants.

J. V. SMITH, Franklin, Pa.  
3 Four-ounce bottles of Pennsylvania crude oil, samples of No. 1, No. 2 and No. 3, Franklin, Pa.

LESTER WRONKER, New York City.  
115 Hamilton Group fossils, Canandaigua Lake, N. Y.

BY EXCHANGE

UNIVERSITY OF COLORADO, Boulder, Colo.  
66 Cretaceous fossils, Colorado.

BY PURCHASE

41 Specimens (lithological series) of rocks from Connecticut.

88-ounce specimen of Ness County meteorite.

43 Specimens of volcanic bombs from Idaho and fossils from Eifel, Germany.

100 Pounds of fossilized wood, Florissant, Colo.

5 *Orthoceras* specimens.

THROUGH MUSEUM EXPEDITIONS

Photographs and specimens from the Lesser Antilles. Collected by E. O. Hovey.

Rocks and fossils from Porto Rico. Collected by Chester A. Reeds and Prentice B. Hill.

DEPARTMENT OF MINERALOGY

BY GIFT

FREDERICK I. ALLEN, New York City.  
1 Specimen Beryl, Portland, Conn.

EDWARD M. BELTS, JR., Morris Plains, N. J.  
2 Vials of Gold Mica, Morris Plains.

MRS. WILLIAM H. BLISS, New York City.  
1 Cut Aquamarine, 144.51 carats, Minas Geraes, Brazil.

BARNUM BROWN, New York City.  
Partially dissolved crystal of Gypsum from coal in Lower Belly River formation, Alberta, Canada.

MATILDA W. BRUCE FUND.  
96 Specimens of minerals.

FRANK CROSS and FLOYD SNYDER, Lehigh, Okla.

31 Pieces of Hematite, near Lehigh, Okla.

DEPARTMENT OF ANTHROPOLOGY, Transfer.  
1 Specimen of Rock-salt from forty miles east of Fort Norman, Mackenzie River;  
1 large crystal of Gypsum, Tremont River Cañon, Utah.

JAMES DOUGLAS, New York City.  
7 Specimens of Euxenite, Brazil.

ARTHUR D. GABAY, New York City.  
1 Specimen of iridescent Calcite with Pyrite, and 1 specimen of Calcite, Cumberland, England; 1 specimen of Iceland Spar.

CHARLES HOADLEY, Englewood, N. J.  
1 Specimen of Albite, West Paterson,  
N. J.; 1 specimen of Manganosite,  
Franklin Furnace, N. J.

JULIUS HOFFMAN, New York City.  
8 Specimens of Magnesite, north coast of  
Venezuela.

HORATIO S. KRANS, New York City.  
Collection of minerals including Agates  
and polished Coral Limestones.

H. PAPKE, West Hoboken, N. J.  
1 Specimen Gmelinite, Great Notch, N. J.

HARRIS F. SMITH, New York City.  
Specimen of Hard Coal, mines at Ports-  
mouth, R. I.

STANDARD CHEMICAL CO., Pittsburgh, Pa.,  
through JOSEPH M. FLANNERY, Presi-  
dent.

2 Specimens Carnotite, Colorado.

ESTATE OF MARY E. WILDE, through  
GEORGE F. KUNZ, New York City.

34 Cut precious stones and semi-precious  
stones.

#### BY EXCHANGE

O. J. LEE, New York City.  
1 Specimen Graphite, one mile northeast  
of Valhalla, N. Y.

CONRAD MOELLER, Paterson, N. J.  
2 Specimens Apophyllite, West Paterson,  
N. J.

GEORGE O. SIMMONS, Brooklyn, N. Y.  
1 Specimen Apophyllite, Paterson, N. J.;  
1 specimen Calcite and Datolite, West-  
field, Mass.; 1 specimen Natrolite,  
Golden, Colo.

#### DEPARTMENT OF WOODS AND FORESTRY

##### BY GIFT

NEW YORK STATE COLLEGE OF FORESTRY,  
Syracuse, N. Y.

31 Specimens of wood from the United  
States.

SAWYER AND MCKAY, Ketchikan, Alaska.  
Sitka Spruce bark to cover Sitka Spruce  
section, Ketchikan.

W. O. WOLCOTT, Brooklyn, N. Y.  
Cedar plank from Santander, Colombia.

##### BY PURCHASE

171 Hand specimens of Philippine woods.

13 Water-color illustrations for Forestry  
Hall, by Mrs. C. S. Sargent.

Enlargement of giant tree, "General  
Sherman."

#### DEPARTMENT OF INVERTEBRATE ZOOLOGY—INVERTEBRATES

##### BY GIFT

J. W. ANGELL, New York City,  
Insects, Lahaway, N. J.

AQUARIUM SOCIETY, New York City.  
12 Bottles of invertebrates.

H. G. BARBER, Roselle Park, N. J.  
Specimens of *Papilio* and *Catocala*, Big-  
low, Mo.

F. E. BARBOUR, Canajoharie, N. Y.  
1 Nematomorph.

K. BARCHAM, New York City.  
Chrysalis of *Polygonia interrogationis*,  
New York City.

MRS. S. R. BARRETT, New York City.  
1 Spider, 1 squid, 1 myriapod and 1  
caterpillar.

S. BEVIN, Flushing, N. Y.  
Insects from Cuba, Panama and other  
localities.

HENRY BIRD, Rye, N. Y.  
1 Paratype *Papaipema humuli* Bird, Rye.

GEORGE T. BOWDOIN and HOWARD  
TOWNSEND, New York City.

82 Specimens of Lepidoptera, 39 miscel-  
laneous insects, 1 wasp's nest, 9 vials of  
alcohol containing 700 insects, 3 vials  
of alcohol containing 40 specimens of  
snails, tape-worms, etc., Jasper Park,  
Alberta, Canada.

HERMAN BREHME.  
2 Specimens of *Erinnys guttularis*, Cuba.

N. L. BRITTON, New York City.  
Collection of land shells, Porto Rico.

BARNUM BROWN, New York City.  
1 *Serolis*, Rio Cay; 1 erycinid, Patagonia;  
6 other invertebrates, Alberta, Canada.

E. C. BROWN, New York City.  
6 Specimens of *Cambarus bartonii*, Van  
Cortlandt Lake, New York City.

CARNEGIE INSTITUTION, Washington, D. C.,  
through A. L. TREADWELL.

About 400 identified annulatus from Dry  
Tortugas, Fla., and Porto Rico.

- W. E. CASTLE, Boston, Mass.  
20 Live rats for use in Mendelian exhibit.
- JAMES P. CHAPIN, New Brighton, N. Y.  
2 Lepidoptera, Lake Louise, Alberta, Canada.
- B. PRESTON CLARK, Boston, Mass.  
About 12,000 insects, Republica Dominica, collected by F. E. Watson; 48 Sphingidae, North and South America; 88 Lepidoptera, California.
- T. D. A. COCKERELL, Boulder, Colo.  
Insects from various localities.
- L. V. COLEMAN, Brooklyn, N. Y.  
22 Eggs of *Samia cecropia*, Brooklyn; 8 specimens of *Eurema*, South and Central America.
- RUSSELL J. COLES, Danville, Va.  
1 Stag Beetle, Danville; 2 crabs, Captive Island, Fla.
- WM. P. COMSTOCK, Newark, N. J.  
19 Specimens Hesperidae, southern China; 3 specimens Lycenidae, Porto Rico; 32 Riodinidae and 1 hesperid from various localities.
- A. W. COSTIGAN, Phoenix, Ariz.  
1 Tarantula, Phoenix, Ariz.
- M. D. C. CRAWFORD, Nyack, N. Y.  
7 *Rhopalocera*, Nyack.
- FRANK CROSS and FLOYD SNYDER, Lehigh, Okla.  
Insects, Lehigh, Okla.
- WM. T. DAVIS, New Brighton, N. Y.  
Insects from various localities.
- MISS F. H. DEBOLD, New York City.  
Specimen of *Maandra viridis*.
- J. R. DE LA TORRE BUENO, Mount Vernon, N. Y.  
75 Lepidoptera, India; 4 *Melanorhopala clavata*, White Plains, N. Y.
- DEMING COMPANY, Salem, Ohio.  
Various spray nozzles for combating injurious insects.
- MARIO DE MOYA, Sanchez, Republica Dominica.  
Insects from Sanchez.
- DEPARTMENT OF VERTEBRATE PALÆONTOLOGY, Transfer.  
2 *Cephalodiscus capensis*.
- E. L. DICKERSON, Nutley, N. J.  
Insects, Nutley, N. J.
- R. P. DOW, Brooklyn, N. Y.  
4 Lepidoptera and specimens of Mud Wasp nests, Lahaway, N. J.
- WALTER F. DOWNS, East Quogue, L. I., N. Y.  
1 Specimen of Lepidoptera, East Quogue, N. Y.
- BASIL H. DUTCHER, San Juan, Porto Rico.  
10 Land snails, Loiza, Porto Rico.
- MISS Y. E. EATON, New York City.  
Collection of insects, Rhodesia, South Africa.
- WM. A. ENGE, San Lorenzo, Republica Dominica.  
11 Longicorn Beetles, San Lorenzo, R. D.
- G. P. ENGELHARDT, Brooklyn, N. Y.  
1 Specimen of Neuroptera, Pleasant Valley, Conn.
- EDWARD M. L. ENGLE, San Mateo, Costa Rica.  
1 Lantern Fly, San Mateo.
- OTTO FALKENBACH, New York City.  
7 Starfishes, 3 crabs, 1 *Squilla*, City Island, N. Y.
- GEORGE FRANCK, Brooklyn, N. Y.  
2 *Eutolype damalis*, Sonoma Co., Cal.
- GIFT IN MEMORY OF MRS. SAMUEL LAWRENCE.  
700 Insects from southern and south-eastern Africa. Collected by Richard Douglas.
- A. L. GOODMAN, New York City.  
2 Photographs of Diptera.
- FRED HAGEN, Sanchez and Limon, Republica Dominica.  
Collection of insects, Sanchez.
- G. C. HALL, New York City.  
3 Specimens of *Philosamia cynthia*, Bronx, N. Y.
- C. R. HALTER, New York City.  
1 Cerambycid larva, Puerto Plata, Santo Domingo.
- EDWARD D. HARRIS, New York City.  
Insects from various localities.
- JULIUS HOFFMAN, New York City.  
3 Crabs.
- J. DOUGLAS HOOD, Washington, D. C.  
6 Microscopic slides of *Thrips* (paratypes) from various localities.
- J. M. HOSPEDALE, Sangre Grande, Trinidad.  
18 Insects and shells, Sangre Grande, Trinidad.
- JUSTUS KAISER, Woodhaven, N. Y.  
2 Specimens of *Xylocopa*, Venezuela.
- W. D. KEARFOTT, New York City.  
12,000 Moths from various localities.

FRED KESSLER, New York City.  
Starfishes, crabs and shells, City Island,  
N. Y.

GEORGE F. KUNZ, New York City.  
1 *Scolopendra*.

C. W. LENG, New York City.  
Coleoptera.

WALTER C. MATHIAS, Portland, Oregon.  
115 Specimens of Lepidoptera and 5  
specimens of Diptera, Portland, Ore.,  
and Yosemite Valley, California.

MRS. MARTHA MERBOTH, New York City.  
Moths and Butterflies.

WM. MOORE, New York City.  
2 Live beetles, Port Limon, Costa Rica.

S. MORGAN, Coamo Springs, Porto Rico.  
Insects, Coamo Springs, Porto Rico.

G. W. NASH, Hurley, N. Y.  
Straw beehive.

NEW YORK ZOÖLOGICAL SOCIETY through  
NEW YORK AQUARIUM, New York City.  
1 *Carpilus corallinus*, Key West, Fla.

FRANCIS C. NICHOLAS, Nogales, Ariz.  
40 Beetles, Nogales, Ariz.

HOWARD NOTMAN, Keene Valley, N. Y.  
8 Vials of myriapods, Keene Valley, N. Y.

NORMAN L. ORME, JR., La Aduana, Puerto  
Plata, Republica Dominica.  
Insects, Puerto Plata.

RAYMOND C. OSBURN, New London, Conn.  
2 Sphinx Moths, Ponce, P. R.

R. F. PEARSALL, Allaben, N. Y.  
2 Geometrids and 5 miscellaneous insects,  
Catskill Mts., N. Y.

CHARLES PERRY, Gloucester, Mass.  
1 *Lithodes maia*, Massachusetts.

R. W. PINCKNEY, Fordham, N. Y.  
1 Spider and egg sac.

CHESTER A. REEDS, New York City.  
Roach and Dragon-fly, San German,  
P. R., and S. S. "Brazos."

STEPHEN G. RICH, Ithaca, N. Y.  
2 Vials of myriapods, Ithaca, N. Y.

S. E. SARGENT, New York City.  
Insect cabinet.

E. SHOEMAKER, Brooklyn, N. Y.  
Insects from various localities.

ELLISON G. SMYTH, Santa Rita, Porto Rico.  
Coleoptera, various localities.

SOUTH BEACH ALLIGATOR FARM, Florida.  
6 Starfishes.

HENRY THURSTON, Floral Park, L. I.  
1 Spider, Texas.

ADRIAN VALLEY, Tananarivo, Madagascar.  
Insects from Madagascar.

CHARLES L. VAN BOGAERT, London, Eng-  
land.  
1 Sea urchin, Ensenada, Porto Rico.

FRANK E. WATSON, New York City.  
Insects, vicinity of New York City.

HARRY B. WEISS, New Brunswick, N. J.  
Insects, various localities.

WM. WOOD, New York City.  
Insects, various localities.

L. B. WOODRUFF, New York City.  
2 *Cyrtolobus helena* Woodruff.

## BY PURCHASE

6 Pupæ of *Megathymus yuccæ*, Gulfport,  
Fla.

1 Saturnian hermaphrodite, Africa.

20,750 Specimens of microlepidoptera  
(Kearfott collection), including about  
800 larvæ, pupæ, etc., from various  
localities.

176 Hesperidæ, Colombia, S. A.; 25  
Hesperidæ, Canada.

73 Vials of invertebrates from Miami,  
Fla., and Havana, Cuba.

76 Specimens of Lepidoptera, northern  
Ontario, Canada.

24 Type preparations of Rotifera, various  
localities.

Living pupæ of Florida butterflies new to  
collection.

500 Specimens of *Anosia plexippus*.

1,722 Coleoptera from various localities.

## BY EXCHANGE

DURBAN MUSEUM, Natal, Africa.  
Exhibit of mimicry in butterflies and col-  
lection of insects from Africa.

KNY-SCHEERER CO., New York City.  
8 Vials of hydroids, Woods Hole, Mass.

A. MOSES SONS & CO., Inc., New York City.  
12 Specimens of *Pentaceros reticulatus*.

A. L. TREADWELL, Poughkeepsie, N. Y.  
1 Bottle of *Hyalinæcia artifex*.

## THROUGH MUSEUM EXPEDITIONS

Invertebrates from Porto Rico. Collected  
by Henry E. Crampton.

Invertebrates from New York and New  
Jersey. Collected by D. M. Fisk.

Isopods, crabs and shells, Samaná and Sanchez, Santo Domingo. Collected by Clarence R. Halter.

Insects from Porto Rico. Collected by F. E. Lutz and A. J. Mutchler.

Insects from Colombia, South America. Collected by Leo E. Miller.

Invertebrates and algæ, Massachusetts and Vermont. Collected by Roy W. Miner.

Marine and land invertebrates, Porto Rico. Collected by Roy W. Miner and H. Mueller.

Invertebrates from South Georgia Island. Collected by Robert C. Murphy.

Invertebrates from Porto Rico. Collected by Raymond C. Osburn.

Goose barnacles on tropical reed, from Aguadilla, Porto Rico. Collected by Chester A. Reeds.

Annulates from Porto Rico. Collected by A. L. Treadwell.

Insects from Florida. Collected by F. E. Watson and A. J. Mutchler.

Many crustacea, myriapods and other invertebrates from Belgian Congo, Africa. Collected by Herbert Lang and James P. Chapin.

#### MOLLUSKS

##### BY GIFT

CARL E. AKELEY, New York City.  
String of cowries used as currency in Unyoro, Uganda, Africa.

BARNUM BROWN, New York City.  
Shells from Patagonia, and from Alberta, Canada.

DEPARTMENT OF ANTHROPOLOGY, Transfer.  
4 Valves of the Pearl Clam (*Meleagrina*), Admiralty Island, Pacific Ocean.

ARTHUR D. GABAY, New York City.  
57 Specimens of marine, land and fresh-water shells.

FREDERICK F. HUNT, New York City.  
8 Specimens of *Melongenena corona*, Florida.

MRS. W. K. SIMPSON, New York City.  
Shells.

V. STERKI, New Philadelphia, Ohio.  
105 Specimens of American shells.

ESTATE OF MARY E. WILDE, through  
GEORGE F. KUNZ.  
150 Marine shells.

##### BY PURCHASE

3 Specimens of deformed *Cypræa tigris*, New Caledonia; 6 native shell baskets, Lower California.

##### BY EXCHANGE

B. H. BAILEY, Cedar Rapids, Iowa.  
120 Shells from British Honduras.

##### THROUGH MUSEUM EXPEDITION

A large collection of marine, fresh-water and land shells from West Africa and the Congo. Collected by Herbert Lang and James P. Chapin.

#### DEPARTMENT OF ICHTHYOLOGY AND HERPETOLOGY

##### FISHES

##### BY GIFT

AQUARIUM SOCIETY, New York City.  
51 Fishes.

W. L. BRIND, Bergenfield, N. J.  
48 Aquarium fishes, 85 Top Minnows, 1 Rainbow Darter, 3 Goldfish, 1 Barbus and 100 aquarium fishes.

BARNUM BROWN, New York City.  
8 Sticklebacks and 11 Minnows, Brooks, Alberta, Canada.

ERNEST CLIVE BROWN, Copake, N. Y.  
2 Horny-heads, 1 Fusiform Darter, 1 Red-sided Shiner, 2 young Stone Rollers, 1 phial Pickerel eggs, 1 phial Perch eggs and 1 phial Rainbow Trout eggs.

RUSSELL J. COLES, Danville, Va.  
Plaster mold of a 17-foot Devilfish, with head, tail and large sections of the fish; tail fins of a 13-foot and of a 14-foot Devilfish, dental plate of the 13-foot Devilfish, 2 rays and 8 teleosts, all from near Captive Island, Florida; 1 Torpedo, Morehead City, N. C.; 30 Sharks and rays and other fishes; also 2 jars of young, Cape Lookout, N. C.

LEE S. CRANDALL, New York City.  
1 Banded Pigmy Sunfish, Florida.

GEORGE S. CROCCO, New York City.  
5 Brassy Sculpins, City Island, N. Y.; 1 Swellfish.

BASHFORD DEAN, Riverdale, N. Y.  
5 Skate crania, Spring Lake, N. J.

## DEPARTMENT OF GEOLOGY, Transfer.

- 2 Shark teeth and 2 teleostean remains from the Tertiary of Porto Rico.

## DEPARTMENT OF INVERTEBRATE ZOOLOGY, Transfer.

- 1 Pearl fish, Bahama Islands; 125 Fishes, Porto Rico.

## DEPARTMENT OF ORNITHOLOGY, Transfer.

- 30 Characin fishes, Antioquia, Colombia.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY, Transfer.

- 17 Fossil fish teeth and fragments from the Belly River formation, Alberta, Canada.

## ALEXANDER DEUSSEN, Austin, Tex.

- 9 Fossil shark teeth, near Seguin, Guadalupe Co., Tex.

## CLEVELAND H. DODGE FUND.

- 34 Fossil fishes (Arthrodira), from the Cleveland shale of Ohio; 2 fossil fishes, Fossil, Wyo.; 5 slabs of sandstone exhibiting well-preserved fossil fishes, from an old red sandstone quarry at Dura Den, Scotland; 4 mounted fishes, New England; head of a fossil Gar Pike, Fossil, Wyo.

## JOHN C. DOXEE, Islip, L. I.

- Head of Tiger Shark, off Islip, L. I.

## JONATHAN DWIGHT, JR., New York City.

- 1 Cod cranium, Quogue, N. Y.

## C. and O. FALKENBACH, New York City.

- 15 Local fishes and head of a Dusky Shark, City Island, N. Y.

## WALTER GRANGER, Brooklyn, N. Y.

- 1 Mousefish, Dry Tortugas, Fla.

## W. K. GREGORY, New York City.

- 1 Big-eyed Herring.

## E. W. GUDGER, Greensboro, N. C.

- 71 Fishes of various species, Tortugas, Fla.

## GEORGE G. HEYE, New York City.

- 10 Specimens of *Rivulus* sp., Margarita, Venezuela.

## FRED KESSLER, New York City.

- 5 Skate egg-cases, Rockaway, N. Y.

## FREDERIC A. LUCAS, New York City.

- 1 1½ lb. Perch (15 inches in length), 4 Shiners, 6 fresh-water Killies and a series of 11 Perch crania of various sizes with their corresponding otoliths, King's Pond, Plymouth, Mass.

## WILLIAM MAHONEY, New York City.

- 1 Threadfin, 1 Silverside and 1 Snook.

## NEW YORK ZOOLOGICAL SOCIETY, New York City.

- 1 Scaly-skinned Bass, 1 Tilefish, 1 Grunt, 1 Striped Butterfly-fish, and 1 Hybrid Snapper, Florida; 1 Nurse Shark. Total, 6 specimens, received from the New York Aquarium.

## JOHN TREADWELL NICHOLS, Englewood, N. J.

- Shark's cranium, Moriches Beach, L. I.

## DAVID G. STEAD, Sydney, N. S. W., Australia.

- Teeth of a Port Jackson shark, coast of New South Wales.

## D. D. STREETER, Brooklyn, N. Y.

- 3 Jumping Fishes, 4 Gobies and 3 Carps, Borneo.

## F. E. WATSON, New York City.

- 7 Top Minnows, Sanchez, Santo Domingo.

## W. H. WIEGMANN, New York City.

- 1 Young Lamprey, Gravesend Bay, N. Y.

## EDWARD E. WRISSENBERG, New York City.

- 1 Clear-nosed Skate, Cholera Fishing Banks, L. I.

## BY EXCHANGE

## DURBAN MUSEUM, Natal, Africa.

- 16 Small fresh-water fishes, Natal and Zululand.

## C. H. EIGENMANN, Bloomington, Ind.

- 357 Fishes, Colombia and Ecuador.

## BY PURCHASE

Mounted Cunner, East Falmouth, Mass.

## THROUGH MUSEUM EXPEDITIONS

3,500 to 4,000 fishes from the Congo Basin, Africa. Collected by Herbert Lang and James P. Chapin.

Fossil fish scales and bones on pieces of rock, shore of Congo River, a few miles below Stanleyville. Collected by Herbert Lang.

13 Fishes, several species, from outside the Golden Gate, California; 11 fishes from Long Island Sound, Oyster Bay to Point Jefferson; 73 specimens of the common Killifish, 27 Sheepshead Minnows and 6 Rainwater fishes, Mastic, Long Island. Collected by John Treadwell Nichols.



## AMPHIBIANS AND REPTILES

## BY GIFT

- J. W. ANGELL, Lahaway, N. J.  
1 Musk turtle, Lahaway, N. J.
- AQUARIUM SOCIETY, New York City.  
30 Bottles of reptiles and amphibians.
- MRS. S. R. BARRETT, New York City.  
3 Garter snakes, 1 small ribbon snake and 4 Newts.
- H. D. BELL, Minister for Internal Affairs, Wellington, New Zealand.  
2 Tuataras, White Bay, N. Z.
- GEORGE T. BOWDOIN, New York City.  
1 Frog and 7 toads, Alberta, Canada.
- FRANK CROSS and FLOYD SNYDER, Lehigh, Okla.  
1 Lizard and 1 skin shed by whip snake, Lehigh, Okla.
- DEPARTMENT OF INVERTEBRATE ZOOLOGY, Transfer.  
2 Snakes, 1 frog, 31 lizards, West Indies.
- DEPARTMENT OF MAMMALOGY, Transfer.  
47 Toads, 20 frogs and 4 snakes, North America.  
1 Toad and 1 frog, South America. Roosevelt Expedition.
- GIFT IN MEMORY OF MRS. SAMUEL LAWRENCE.  
13 Snakes, 55 lizards and 4 toads, Metabeleland, Africa. Collected by Richard Douglas.
- WILLARD HALL, Providence, R. I.  
2 Spadefoot toads and 14 tadpoles.
- C. R. HALTER, New York City.  
1 Snake, Long Island.
- ADAM HERMANN, New York City.  
2 Collared lizards, Texas.
- B. E. HOOVER, New York City.  
1 Box turtle, Trenton, N. J.
- LOUIS JOHN NAGELE and FRANK NAGELE, New York City.  
1 Large leatherback turtle, Nova Scotia.
- MISS L. C. KEELER, New York City.  
3 Snakes, Porto Rico, 2 salamanders and 2 young Florida terrapins.
- IRVING M. KETCHAM, Glen Head, L. I.  
5 Frogs, Glen Head.
- J. H. MCGREGOR.  
1 Turtle, 2 hairy frogs and 1 toad, Gaboon, Africa.
- H. DEL. MCKINLAY, Orangeburg, N. Y.  
1 Salamander, Englewood, N. J.

MISS MCTUNE, New York City.  
1 Green frog.

J. MAYBERRY, New York City.  
2 "Chamæleons," Cuba.

W. DEW. MILLER, Plainfield, N. J.  
2 Toads, Bernardsville, N. J.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

11 Snakes, 2 salamanders, 7 turtles, 1 New York box tortoise, 1 lizard, 1 "chamæleon" and 15 frogs. Total, 32 specimens from the New York Aquarium and the New York Zoological Park.

ROBERT V. THOMAS, McIntosh, Fla.  
2 Unhatched alligator eggs, McIntosh, Fla.

## BY PURCHASE

6 Toads and 6 tadpoles, Brownsville, Tex.  
13 Eggs of *Sphenodon punctatum*, Wellington, N. Z.

Skeleton of lizard, skeleton of frog and skeleton of python.

## BY EXCHANGE

INSTITUTE BUTANTAN, through DR. VITAL BRAZIL, Sao Paulo, Brazil.  
25 Snakes, South America.

DURBAN MUSEUM, Natal, Africa.  
7 Frogs, 4 toads, 2 lizards and 18 snakes, Africa.

DWIGHT FRANKLIN, New York City.  
1 Mounted "horned toad."

## THROUGH MUSEUM EXPEDITIONS

Reptiles and batrachians, Belgian Congo, Africa. Collected by Herbert Lang and James P. Chapin.

3 Newts, 42 salamanders, 68 frogs, 78 toads, tadpole eggs, 41 turtles and 15 snakes, Woods Hole, Mass. Collected by Miss S. R. Clemence.

5 Toads, 7 alligators, 12 turtles, 34 snakes, 12 "chamæleons," 9 skinks, Kissimmee Prairie, Fla. Collected by Walter Escherich.

77 Frogs, 6 turtles, 351 lizards and 19 snakes, Santo Domingo. Collected by Clarence R. Halter.

5 Toads, 1 frog, 1 snake, 1 cœcilian, 1 iguana, 1 boa, Antioquia, South America. Collected by Leo E. Miller.

3 Geckos, Dominica, West Indies. Collected by Robert C. Murphy in 1914.

DEPARTMENT OF MAMMALOGY  
AND ORNITHOLOGY

MAMMALS

BY GIFT

WILLIAM BEBB, Chicago, Ill.  
6 Moles, Alhambra, Cal.

W. H. BERGTOLD, Denver, Colo.  
1 Monkey and 1 Cony.

GEORGE T. BOWDOIN, New York City.  
60 Small mammals, Alberta, Canada.

GEORGE K. CHERRIE, New York City.  
4 White-footed Mice, Newfane, Vt.

RUSSELL J. COLES, Danville, Va.  
1 Dolphin.

DEPARTMENT OF PARKS, New York City.

9 Monkeys, 2 Marmosets, 1 Coyote, 1 Woodchuck, 2 Opossums, 4 Lemurs, 1 Baby Llama, 1 Baboon, 1 Barbary Sheep, 1 Collie Dog, 1 Elk, 2 Red Deer, 1 Red Fox, 1 Bear, 1 Black Bear, 1 Lioness, 2 Camels, 1 Baby Camel. Total, 33 specimens received in the flesh from the Central Park Menagerie.

R. DONKER, New York City.  
1 Red Squirrel in the flesh, Germany.

MRS. HERBERT FORDHAM.  
1 Mole, Long Island.

C. H. FUNARO.  
2 Bats, New Jersey.

GIFT IN MEMORY OF MRS. SAMUEL LAWRENCE.  
58 African mammals, collected by Richard Douglas.

F. B. JEWETT, New York City.  
1 Albino Porcupine, Maine.

G. L. KIRK, Rutland, Vt.  
1 Red Squirrel.

A. L. KROEBER, New York City.  
2 Squirrels, Zuffi, New Mexico.

CHARLES M. LEA, Philadelphia, Pa.  
2 Fox Squirrels, Santu, South Carolina.

HERMANO APOLINAR MARIA, Bogotá, Colombia.  
3 Small Colombian mammals.

MUSEU GOELDI, through DR. EMILIE SNETHLAGE, Pará, Brazil.  
49 Mammals from South America.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

1 Brown Bear, 1 Harbor Seal, 1 Elephant, 1 Indian Elephant "Gunda," 1 young Przewalsky Horse and 1 Musk-ox. Total, 6 specimens received in the flesh from the New York Zoological Park.

JOHN H. PRENTICE, New York City.  
1 White Rhinoceros, mounted.

R. H. RENSHAW, Jersey City, N. J.  
1 Scrimshawed Sperm Whale tooth.

RINGLING BROTHERS, New York City.  
1 Giraffe and 1 Hippopotamus.

ALBERT JACQUES SUZANNE, Fort Montgomery, N. Y.

Thoroughbred Eskimo Dog, North Star born in Greenland.

THOMAS H. WHELESS, Newark, N. J.  
1 Mexican Hairless Dog.

CHARLES WUNDER, Dundee Lake, N. J.  
1 Weasel.

BY EXCHANGE

CALIFORNIA ACADEMY OF NATURAL SCIENCES, Berkeley, Cal., through JOHN ROWLEY.

Skull and skeleton of Stellar's Sea Lion.

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.

1 Skeleton and 3 skulls of Porpoises.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.  
Skin and skull of Cinnamon Bear.

BY PURCHASE

100 Bats in alcohol.

2 Bear cubs, black and cinnamon.

1 Figure of Cantonese laborer, 1 figure of Australian and 1 costumed figure of Norwegian peasant woman, for Hall of Primates.

1 Skin and skull of Puma, Costa Rica.

1 Bob Cat in the flesh, New Brunswick.

2 Skulls of old Gorilla and old Chimpanzee.

8 Foetal Armadillos.

1 Glacier Bear skin.

Female and yearling of Rocky Mountain Goat, Montana.

1 Mounted skeleton of Rabbit.

2 Skulls of Gibbons.

- 1 Skeleton of *Dendrolagus lumholtzi*, Herbert River, Queensland.  
 10 Small South American mammals.  
 Half skeleton of Dog, femur of Gorilla, femur of Orang and skeleton of Vampire Bat.

THROUGH MUSEUM EXPEDITIONS

- Skins of Virginia Deer, buck, doe and fawn, from Brandreth, N. Y. Collected by Roy C. Andrews.  
 335 Mammals from eastern Panama. Collected by H. E. Anthony, D. S. Ball, and W. B. Richardson.  
 119 Mammals with accessory material for Jack Rabbit and Showt'l Groups, from Oregon and Idaho. Collected by H. E. Anthony.  
 Congo Expedition. 5,115 mammals: skins, skulls and skeletons, from the Congo, Africa. Collected by Herbert Lang and James P. Chapin.  
 Bones from cave of extinct Octodont *Isolobodon*, from Porto Rico. Collected by Dr. Franz Boas. Joint expedition of American Museum and New York Academy of Sciences.  
 About 100 mammals from Bolivia, Brazil, and Peru. Collins-Day Expedition. Collected by George K. Cherrie.  
 81 Mammals from eastern Panama. Collected by W. B. Richardson.  
 311 Mammals from Bolivia and 187 mammals from Colombia. Collected by Leo E. Miller and Howarth S. Boyle.

BIRDS

BY GIFT

- CHARLES ALLGOEVER, New York City.  
 1 Albino Crow.  
 ANONYMOUS.  
 1 Pigeon, 1 Phalarope, 1 Barred Owl, 1 Jay and 1 Black and White Warbler, in the flesh.  
 N. S. BANG, New York City.  
 Skin of Quetzal, Guatemala.  
 F. W. BECKER, New York City.  
 Sparrow Hawk, in the flesh.  
 D. LINNÆUS BENNETT, Plainfield, N. J.  
 Red-shouldered Hawk, in the flesh.  
 W. H. BERGTOLD, Denver, Colo.  
 Skin of Rocky Mountain Jay and Gray Ruffed Grouse.

- GEORGE T. BOWDOIN, New York City.  
 24 Birdskins from Alberta.  
 COURTNEY BRANDRETH, Ossining, N. Y.  
 American Egret, in the flesh.  
 ERNEST C. BROWN, Copake, N. Y.  
 Kingfisher, in the flesh.  
 W. W. BRUCE, New York City.  
 Skin of Golden Eagle.  
 JAMES P. CHAPIN, New Brighton, N. Y.  
 Skin of Lawrence's Warbler.  
 FRANK M. CHAPMAN, JR., Englewood, N. J.  
 Skins of 1 Cuckoo, 1 Ani, 1 Flycatcher, 1 Jay and 1 Blackbird, Mexico.  
 H. D. COOKE, New York City.  
 Mounted *Apteryx* and egg, New Zealand.  
 LESLIE O. DART, Minneapolis, Minn.  
 105 Birdskins, Venezuela.  
 DEPARTMENT OF PARKS, New York City.  
 3 Pheasants, 3 Pigeons, 1 Rail, 1 Stork, 1 Flamingo, 3 Swans, 1 Goose, 8 Hawks, 4 Owls, 19 Parrots, 1 Toucan, 13 Songbirds: 58 specimens received in the flesh from the Central Park Menagerie.  
 J. DE VYVER, Mount Vernon, N. Y.  
 Barn Swallow, in the flesh.  
 MISS KATHERINE DRIGGS, New York City.  
 Bullfinch, in the flesh.  
 PAUL ENGEL, New York City.  
 7 Sharp-shinned Hawks, 1 Red-tailed Hawk, 2 Red-shouldered Hawks, 3 Crows and 1 Fish Crow, in the flesh.  
 P. C. FISHER, New York City.  
 Barred Owl, in the flesh.  
 ROLFE FLOYD, Mastic, L. I.  
 Surf Scoter, in the flesh.  
 GIFT IN MEMORY OF MRS. SAMUEL LAWRENCE.  
 African birds. Collected by Richard Douglas.  
 LUDLOW GRISCOM, New York City.  
 1 Orange-crowned Warbler, in the flesh.  
 Currituck Sound, N. C.  
 C. T. HARBECK, Smithtown, L. I.  
 Freak Mallard, in the flesh.  
 W. T. HELMUTH, Easthampton, L. I.  
 Skull of Sooty Shearwater, sternum of Willet and 1 Roseate Tern, in the flesh.  
 JOHN H. HENDRICKSON, Jamaica, L. I.  
 Barn Owl, in the flesh.  
 ADAM HERMANN, New York City.  
 Starling, in the flesh.

- GEORGE E. HIX, New York City.  
1 Junco and 1 Black and White Warbler, in the flesh.
- C. A. HOLMES, Jamaica, L. I.  
1 Greater Yellow-legs, 1 Purple Grackle, in the flesh.
- JULIUS M. JOHNSON, Brooklyn, N. Y.  
Red-tailed Hawk, in the flesh.
- FREDERICK H. KENNARD, Newton Center, Mass.  
3 Skins of Florida Turkey.
- C. F. KING, Acidalea, N. Y.  
Redstart, in the flesh.
- STEPHEN KLASSEN, Guttenberg, N. J.  
Whippoorwill, in the flesh.
- C. W. LOVELAND, Providence, R. I.  
2 Sections of birch trees killed by Sap-suckers.
- F. E. LUTZ, Ramsey, N. J.  
Skin of Du Fresno's Parrot.
- W. DEW. MILLER, Plainfield, N. J.  
1 Sharp-shinned Hawk, 1 Great-horned Owl, 1 Blue-Crowned Parrot, 1 Parakeet, 1 Robin, 1 Wood Thrush, 2 Phainopeplas, and 1 Crow, in the flesh.
- LEWIS R. MORRIS, Morris, N. Y.  
1 Goshawk and 2 Red-tailed Hawks, in the flesh.
- MUSEU GOELDI, through DR. EMILIE SNETHLAGE, Pará, Brazil.  
604 Skins of Passeres, from Brazil.
- GEORGE W. NEIL, Springfield, Mass.  
Skin of Pileated Woodpecker.
- NEW YORK CONSERVATION COMMISSION, New York City.  
2 Sora Rails, in the flesh.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.  
1 Rhea, 5 Tinamous, 2 Guinea-fowls, 1 Sand-grouse, 1 Pigeon, 2 Coots, 2 Penguins, 2 Plovers, 1 Bustard, 2 Cranes, 2 Screamers, 1 Flamingo, 3 Hawks, 1 Owl, 13 Parrots, 1 Motmot, 2 Woodpeckers, 21 Song-birds. Total, 63 specimens received in the flesh from the New York Zoological Park.
- JOHN TREADWELL NICHOLS, Englewood, N. J.  
Ovenbird, in the flesh.
- W. B. NICHOLS, Oyster Bay, L. I.  
Horned Grebe, in the flesh.
- ROBERT R. RENSHAW, Jersey City, N. J.  
Duck, in the flesh.
- C. H. ROGERS, New York City.  
Mourning Dove, in the flesh.
- WILLIAM ROCKEFELLER, Tarrytown, N. Y.  
Dove and 12 eggs of Tinamou.
- CHARLES RUBIN, New York City.  
About 100 sets of eggs of North American birds and 1 nest.
- L. C. SANFORD, New Haven, Conn.  
Skins of Owl and Sooty Shearwater.
- LOUIS H. SCHORTEMEIER, New York City.  
Goshawk, in the flesh.
- THOMAS SIMPSON, New York City.  
2 Embryo Canaries, in alcohol.
- GEORGE L. SMITH, Newark, N. J.  
Black-billed Cuckoo, in the flesh.
- J. STANLEY-BROWN, New York City.  
Skins of 2 Snowy Owls, 1 Ptarmigan, 1 Pacific Eider and 1 Emperor Goose.
- MRS. GRAHAM SUMNER, Englewood, N. J.  
Kingfisher, in the flesh.
- MARTIN E. THEW, Arthursburg, N. Y.  
1 Red-tailed Hawk.
- HENRY THURSTON, Floral Park, L. I.  
Kinglet, in the flesh.
- JUSTUS VON LINGERKE, New York City.  
35 Sharp-shinned Hawks, 8 Cooper's Hawks, 1 Goshawk, 8 Red-tailed Hawks, 6 Red-shouldered Hawks, 6 Broad-winged Hawks, 1 Sparrow-hawk, 1 Duck Hawk, 2 Screech Owls, 1 Scarlet Tanager: Total, 69 specimens received in the flesh.
- WALTER WINANS, Surrenden Park, Pluckley, Kent, England.  
Restoration of Dodo; 1 mounted Little Owl and 4 mounted albino Pheasants.

## BY EXCHANGE

- ROYAL SCOTTISH MUSEUM, Edinburgh, Scotland.  
1 Wren.
- CALIFORNIA ACADEMY OF SCIENCES, Berkeley, Cal.  
10 Specimens of *Geospiza*.
- CONNECTICUT AUDUBON SOCIETY.  
2 Flickers.
- HERMANO APOLINAR MARIA, Bogotá, Colombia.  
28 Birdskins from Colombia.
- CHARLES WUNDER, Dundee Lake, N. J.  
10 Birdskins.

BY PURCHASE

- Skin of young King Penguin, 3 King Penguins about four months old and 3 skins of adult King Penguin.  
 1 Peacock head, 51 birdskins and 3 nests from West Indies.  
 3 Parrots, 1 Crowned Pigeon and 1 Megapode.  
 3 Casts of Great Auk eggs.  
 1 Mounted skeleton of Frigate-bird.  
 1 Skeleton of Plymouth Rock Cock.  
 278 Birdskins from Peru. Collected by H. and C. Watkins.

THROUGH MUSEUM EXPEDITIONS

- 1,096 Birdskins and 5 skeletons from Panama. Collected by H. E. Anthony, David S. Ball and Wm. B. Richardson.  
 7 Birdskins from Colorado. Collected by A. E. Butler.  
 6,200 Birdskins and alcoholics from the Congo, Africa. Collected by Herbert Lang and James P. Chapin.  
 About 550 birdskins from Bolivia, Brazil and Peru. Collected by George K. Cherrie. Collins-Day Expedition.  
 1,840 Birdskins and skeletons from Bolivia. Collected by Leo E. Miller and Howarth S. Boyle.  
 1,085 Birdskins from Panama. Collected by Wm. B. Richardson.  
 87 Specimens of birdskins and one skull of King Vulture, Brazil. Collected by George K. Cherrie. Roosevelt Expedition.  
 1,682 Birdskins and 87 skeletons and alcoholics from Colombia. Collected by Leo E. Miller and Howarth S. Boyle.

DEPARTMENT OF VERTEBRATE  
 PALÆONTOLOGY

BY GIFT

- BRITISH MUSEUM OF NATURAL HISTORY,  
 London, England, through DR. A.  
 SMITH WOODWARD.  
 Model of skull and jaws of *Eoanthropos dawsoni*.  
 CHILDS FRICK, Bryn Mawr, Pa.  
 Skull of Zebra.

JOHN LEIK, Williamsburgh, N. Y.  
 Tooth of Mastodon, Portland, Mich.

NEW YORK ZOOLOGICAL SOCIETY, New-York City.

Head and legs of Przewalsky foal.

ROYAL COLLEGE OF SURGEONS, London, England, through DR. ARTHUR KEITH.  
 Cast of "Gibraltar skull" (*Homo neanderthalensis*).

THOMAS F. WHITE & CO., New York City.  
 Head of a Mule (Hinny) and head of Ass.

J. LEON WILLIAMS, New York City.  
 Collection of casts of skulls, jaws, etc., illustrating primitive man (placed on permanent deposit).

BY EXCHANGE

AMHERST COLLEGE, Amherst, Mass., through F. B. LOOMIS.

Small insectivore, part of skull and jaws from Lysite beds of Wind River formation, Bridger Creek, Wind River Basin, Wyo.

WILLIAM BEBB, Chicago, Ill.  
 Series of skins and skulls of Southern California Mole, Alhambra, Cal.

PRINCETON UNIVERSITY, Princeton, N. J., through W. J. SINCLAIR.  
 Casts of Tertiary *Proboscidea*.

UNIVERSITY OF CALIFORNIA, Berkeley, Cal., through J. C. MERRIAM.

7 Teeth and 4 casts of teeth of *Merychippus*, new specimen from the Coalinga beds of California.

BY PURCHASE

Mastodon material consisting of 1 fine skull, 1 broken skull and 2 pairs of lower jaws and much skeleton material belonging to three or more individuals from  $2\frac{1}{2}$  miles southeast of Fulton, Ind.

Series of incomplete skulls, jaws, limbs and foot bones, vertebræ, etc., of *Myotragus balearicus*.

THROUGH MUSEUM EXPEDITION

Skulls and skeletons of dinosaurs from Belly River Cretaceous formation of Red Deer River, Alberta, Canada. Collected by Barnum Brown.

DEPARTMENT OF  
ANTHROPOLOGY

BY GIFT

- H. L. ALDRICH, New York City.  
Models of South Sea Island canoe, Eskimo umiak and Eskimo sea otter hunter in kayak.
- AMERICAN MISSIONARY ASSOCIATION, New York City.  
18 Ethnological specimens from the Eskimo of Wales, Alaska.
- AMERICAN NUMISMATIC SOCIETY, New York City.  
Archæological specimens from Europe, Egypt and United States.
- ANONYMOUS.  
Fan from South Sea Islands.
- MRS. MARY AUSTIN, Carmel, Cal.  
Fragment of a bag made of bark of bitter brush from Haiwai Meadows, Upper Kern River, Inyo Co., Cal.
- HENRY BOOTH, Poughkeepsie, N. Y.  
1 Pendant, 1 unfinished bannerstone and 1 stone pipe from Ulster and Dutchess Counties, N. Y.
- J. T. BRAKELEY, Hornerstown, N. J., through R. P. Dow, New York City.  
1 Quartz knife from Lahaway Plantation, Ocean County, N. J.
- E. A. BROCKHAUS, New York City.  
1 Metate and handstone, Mexico. "Idol" said to have been used by the Indians of Peru.
- CHARLES L. BROWNE, New York City.  
1 Zulu woman's anklet of ivory obtained in South Africa about 1895.
- MRS. W. F. CARLTON, New York City.  
1 Chief's staff, British Columbia.
- MRS. WILLIAM CHURCHILL, Brooklyn, N. Y.  
313 Photographs and 12 ethnological specimens, Pacific islands.
- FREDERICK K. DAY, Elizabeth, N. J.  
1 Basket with cover, California.
- J. H. DAYTON, New York City.  
2 Spears, Solomon Islands; 2 spears, Congo, Africa; musical instrument, China.
- MISS FRANCES DEL MAR, New York City.  
Sample of cooking stone, candle nuts, red earth dye, vegetable red dye, garland headband, from Hawaii.
- R. L. FLAHERTY.  
Photographs of Eskimo drawings made at Amadjuak Bay, Fox Land, the winter quarters of Sir William Mackenzie's Expedition to Baffin Land and Hudson Bay, 1913-1914.
- CHARLES R. FLINT, New York City.  
Hammock decorated with feathers, South America.
- MARSHALL R. GAINES, Yonkers, N. Y.  
Arrow-point, Yonkers.
- N. GIST GEE, Soochow University, Soochow, China.  
Collection of Chinese coins.
- GIFT IN MEMORY OF MRS. SAMUEL LAWRENCE.  
Stone implements, pottery, and recent basketry, Africa. Collected by Richard Douglas.
- LA VERNE GILLET, Royal Oak, Mich.  
Archæological collection from Michigan.
- PAUL GUILLAUME, Paris, France.  
Small loom, scales and weights for weighing gold, Africa.
- NIES HAGEN, New York City.  
Possible example of picture-writing on board. Found on beach at Dosoris, Glen Cove, L. I.
- MRS. JAMES W. HÄGLEHURST, New York City.  
6 Tlingit baskets and one whip from Alaska.
- HUDSON BAY IMPORTING CO., New York City.  
Decorated birchbark canoe, Alaska.
- MRS. R. M. HUNTER, Duluth, Minn.  
Pad-saddle decorated with beadwork, Montana.
- MRS. WILLIAM H. IVINS, New York City.  
19 Baskets from Arizona, California and British Columbia.
- MR. AND MRS. PERCY JACKSON AND MISS ELIZABETH WHITE, New York City.  
Sculptured beams from Tikal and a reused lintel from the hieroglyphic stairway, Naranjo.
- A. D. JULLIARD, New York City.  
Archæological collection consisting of specimens of cloth, objects of metal, weaving implements, etc., from Ica, Peru.
- DR. ARTHUR KEITH, London, England.  
Cast of "Gibraltar Skull" (*Homo neanderthalensis*).

- HORATIO S. KRAUS, New York City.  
4 Arrow-heads from North America; 2 Greek lamps.
- GEORGE F. KUNZ, New York City.  
Archæological collection from banks of Little Missouri River, Ark.
- HERBERT LANG, New York City.  
Ivory mortar and pestle, ivory mortar and redwood pestle and 2 ivory bowls, Mangbettu, Congo, Africa.
- J. V. LAUDERDALE, Brooklyn, N. Y.  
Ethnological collection from Southwest and Plains Indians.
- GEORGE C. LONGLEY, Pelham Manor, N. Y.  
Large collection of potsherds, stone celts, shells, bird bones and 2 negro skulls, Island of Jamaica.
- T. MACGREGOR MACDONALD, Kingston, St. Vincent.  
Stone implements and fragments of pottery, St. Vincent.
- MISS AGNES P. MAHONY, Paterson, N. J.  
Specimens of cloth from West Africa.
- A. L. MERRITT, New York City.  
Skull unearthed in the course of subway excavation, New York City.
- RUSSELL HASTINGS MILLWARD, New York City.  
6 Twine bags from Goajira Peninsula, Colombia.
- TOM MOORE, New York City.  
Stone implement and arrow, Camden, S. C.
- MRS. HERBERT PARSONS, New York City.  
1 Wooden implement from Graham Island, British Columbia.
- MISS L. G. PEABODY, New York City.  
Pair of moccasins, Rosebud Reservation, South Dakota.
- A. L. PELLEGRIN, Tucson, Ariz.  
1 Chalcedony drill-point and 1 discoidal stone, Arizona.
- MISS R. A. POLHEMUS, New York City.  
Decorated saddlebag made by Geronimo, Chiricahua Apache Chief, while a prisoner at Fort Marion, St. Augustine, Fla.
- JAMES G. PRICE, Glen Cove, L. I.  
29 Argillite implements, 2 stone hand choppers and portion of human skeleton, Long Island.
- H. V. RADFORD, through MRS. O. BROWN, Bryn Mawr, Washington.  
Series of ethnological specimens from the Eskimo of Back and Mackenzie Rivers and the Northern Athapascan Indians.
- R. H. REUSHAR, Jersey City, N. J.  
Stone Point, Red Bank, N. J.
- MRS. EDWARD ROBINSON, New York City.  
Silver ornament from Mexico.
- JOSÉ M. ROSALES, Bogotá, Colombia.  
Chibchan axes and spinning stones, pottery head and figure, Bogotá, Colombia.
- HENRY RUOF, New York City.  
Buckskin bag, beaded and quilled.
- MISS MATILDA SCHLOSS, New York City.  
North American feather fan.
- ERNEST SHOEMAKER, Brooklyn, N. Y.  
Arrow points, axes, knives and pottery fragments from an old camp site on the banks of the Potomac River.
- HENRY M. SILVER, New York City.  
2 Stone-headed clubs and a pair of child's moccasins, Crow or Cheyenne Indians.
- CHESTER W. SMITH, New York City.  
Bone implement from Chimbote, Peru.
- DAVID G. STEAD, New South Wales, Australia.  
Flakes from an aboriginal workshop amid the great sand dunes of Cronulla about twenty miles south of Sydney, Australia.
- JOHN R. STUYVESANT.  
Ethnological collection from South America.
- DEXTER O. TIFFANY, New York City.  
Loom with blanket, Indians of Mitla.
- J. R. VINING, Linville, N. C.  
Stone said to have been used as a banner-stone, Flat Top Mountain, N. C.
- CHARLES M. WALLACE, Richmond, Va.  
Archæological collection from the vicinity of Richmond, Va.
- G. F. WILL, Bismarck, N. D.  
29 Samples of Indian corn, principally from the Missouri valley.

## BY EXCHANGE

REV. M. L. ANDARIESE, Oxford, N. J.  
Samples of shell from which wampum was made.

L. C. BULKLEY, Trang, Siam.  
160 Specimens of rejects, drills, arrow points, scrapers, etc., found at a water hole at the head of Dove Creek, Knickerbocker, Tom Greene Co., Tex.

LIEUT. G. T. EMMONS, Princeton, N. J.  
1 Etched walrus tusk (Eskimo), ceremonial mask (Tsimshian), shaman's comb of bone (Haida), pencil for marking designs, deer call, chief's spear (Tlingit); collection of ethnological specimens from the Chilkat, Tlingit and Eskimo of Alaska and from the Indians of British Columbia; suit of Japanese armor and ethnological specimens from the South Sea Islands.

## BY PURCHASE

Miami costume.

1 Slave whip, 1 Kaffir scent bottle, 1 carved scent bottle, 1 carved cocoanut shell, 1 spear.

22 Egyptian flints.

Skull of East Indian, probably Vedda.

Ethnological specimens from Admiralty Islands and Samoa.

Lange collection of pottery consisting of about 2,740 specimens, Marajo Island, Brazil.

46 Specimens of silver work, Indians of eastern United States.

5 Gold objects from Panama.

35 ethnological specimens from the Oro-kolo and Purari Districts, New Guinea.

Restorations of crania, jaws and heads (external) of primitive man, comprising busts of *Pithecanthropus*, Piltown Man, Neanderthal Man, and skulls of Piltown Man. Casts of restored cavities of *Pithecanthropus*, Piltown.

Archæological collection from the Wildkirchli Cavern, Switzerland.

1 Carved implement, Addison, N. Y.

1 Skull of Moriori, Chatham Islands, New Zealand.

## THROUGH MUSEUM EXPEDITIONS

Archæological collection from Porto Rico. Collected by Franz Boas.

Collection of ivory and ethnological specimens from the Congo, Africa. Collected by Herbert Lang and James P. Chapin.

General ethnological collection from Zufi, New Mexico. Collected by A. L. Kroeber.

Ethnological collection from the Paiute Indians of Utah and Nevada and the Hopi Indians of Arizona. Collected by Robert H. Lowie.

Ethnological collection from Pawnee Indians, Oklahoma. Collected by James R. Murie.

Archæological collection from the Tano, Mesa Verde, Chaco and Zufi Districts, New Mexico and Arizona. Collected by Nels C. Nelson.

Archæological collection from Salvador. Collected by Herbert J. Spinden.

Local archæological collection. Collected by Alanson Skinner.

Archæological collection from New Jersey. Collected by Leslie Spier.

## DEPARTMENT OF PUBLIC HEALTH

## BY GIFT

ABBOT ALCALOIDAL CO., Chicago, Ill.

1 Bacterial culture.

BELLEVUE MEDICAL COLLEGE, New York City.

4 Bacterial cultures.

INSTITUTE OF PUBLIC HEALTH, Ontario, Canada.

2 Bacterial Cultures.

LOUISIANA SUGAR EXPERIMENTAL STATION, New Orleans, La.

1 Bacterial culture.

IGNAZ MATAUSCH, New York City.

A giant model of the louse (carrier of typhus fever).

MEMORIAL INSTITUTE FOR INFECTIOUS DISEASES, Chicago, Ill.

1 Bacterial culture.



MINNEAPOLIS FILTRATION PLANT, Minneapolis, Minn.

1 Bacterial culture.

MOUNT SINAI HOSPITAL, New York City.

2 Bacterial cultures.

NEW YORK CITY HEALTH DEPARTMENT, New York City.

2 Bacterial cultures.

PROVIDENCE CITY HOSPITAL, Providence, R. I.

2 Bacterial cultures.

ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH, New York City.

4 Bacterial cultures.

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION, Kingston, R. I.

1 Bacterial culture.

SHEFFIELD SCIENTIFIC SCHOOL, New Haven, Conn.

2 Bacterial cultures.

UNITED STATES NATIONAL MUSEUM, Washington, D. C.

2 Specimens each of *Simulium* sp. and *Culex quinquefasciatus*.

UNITED STATES DEPARTMENT OF AGRICULTURE, Washington, D. C., through E. F. SMITH.

3 Bacterial cultures.

BY PURCHASE

2 Skins of Swallows.

2 Skins of Swifts.

2 Skins of Night-hawks.



# INCORPORATION

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## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY

Passed April 6, 1869

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

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

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

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

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

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

SEC. 5. This Act shall take effect immediately.

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

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

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

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

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

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

# CONTRACT

## WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

In presence of  
D. PORTER LORD.

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

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

SEAL  
of the American  
Museum of  
Natural History

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

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

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

[SEAL.]

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

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

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

[SEAL.]

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

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

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

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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

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REVISED AND AMENDED TO FEBRUARY 7, 1916

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ARTICLE I

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

ARTICLE II

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

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

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

### ARTICLE III

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

### ARTICLE IV

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

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

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

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

## ARTICLE V

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

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

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

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

suggestions as to the financial management of the Museum as he may deem proper.

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

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

#### ARTICLE VI

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

#### ARTICLE VII

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

#### ARTICLE VIII

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

Three members shall constitute a quorum.

## ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of the candidates for officers and Trustees to be balloted for at the said meeting.

## ARTICLE X

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

## ARTICLE XI

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

## ARTICLE XII

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

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

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

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

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

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

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

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

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

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

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

### ARTICLE XIII

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

### ARTICLE XIV

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



# BY-LAWS

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REVISED AND AMENDED TO FEBRUARY 7, 1916

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## I

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

## II

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

## III

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

## IV

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

## V

SECTION 1. No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution.

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

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

## VI

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

## VII

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

## VIII

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

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

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

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

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

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

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

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

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

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



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

## LEGAL ENACTMENTS OF 1911

### BY THE BOARD OF ALDERMEN

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

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

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

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

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

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

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

## APPROPRIATIONS AND EXPENDITURES THEREON TO DECEMBER 31, 1915

### RECEIPTS:

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

### EXPENDITURES:

|   |           |              |
|---|-----------|--------------|
| Phillips & Worthington (boring for foundation)..... | \$448 83  |              |
| Engineers' Services.....                            | 89 26     |              |
| Benedetto & Egan Construction Co. (excavating)..... | 49,796 00 |              |
| Architects' Fees (reserved).....                    | 37,857 14 | 88,191 23    |
| Balance December 31, 1915.....                      |           | \$111,808 77 |

## FOR EQUIPMENT AND CASE CONSTRUCTION

### LEGAL ENACTMENTS OF 1915

#### BY THE BOARD OF ESTIMATE

*Resolved*, That subject to concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on July 17, 1911, amended on February 21, 1912, and concurred in by the Board of Aldermen on July 31, 1911, and on March 12, 1912, respectively, to read as follows:

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

—be and the same is further amended by adding after the words "*Natural History*" the words "*to the extent of eighty-eight thousand one hundred and ninety-one dollars and twenty-three cents (\$88,191.23), and for the purchase of cases, bookstacks and other equipment for said Museum, to the extent of one hundred and eleven thousand, eight hundred and eight dollars and seventy-seven cents (\$111,808.77); provided, however, that no encumbrances or expenditures shall be made against the proceeds of corporate stock herein authorized, nor shall bids upon such contracts be advertised for until after approval by the Board of Estimate and Apportionment of the plans, specifications, estimates of cost and forms of such contracts which shall be submitted to said Board by the Commissioner of Parks, Boroughs of Manhattan and Richmond, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such proceeds except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contracts, voucher or budget schedule, which are to be similarly submitted, unless in the case of departmental employees, such employment is in accordance with schedules approved by said Board; the amendment herein, having the effect of rescinding \$111,808.77 in the corporate stock authorization for the fund C. D. P. 3-B; which sum is herein reauthorized for another purpose.*"

A true copy of resolution adopted by the Board of Estimate and Apportionment, December 10, 1915.

JAMES MANCHESTER,  
Assistant Secretary.

FOR ADDITIONAL MAINTENANCE OF  
THE AMERICAN MUSEUM OF NATURAL HISTORY

LEGAL ENACTMENTS OF 1915

BY THE LEGISLATURE

Chapter 312.

AN ACT to amend chapter two hundred and ninety-two of the laws of nineteen hundred and five, entitled "An act to authorize a further appropriation for the maintenance of the American museum of natural history in the Central park of the city of New York," generally.

Became a law April 14, 1915, with the approval of the Governor.

Passed, three-fifths being present.

Accepted by the City.

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

SECTION 1. Section one of chapter two hundred and ninety-two of the laws of nineteen hundred and five, entitled "An act to authorize a further appropriation for the maintenance of the American museum of natural history in the Central park of the city of New York," is hereby amended to read as follows :

§ 1. The board of estimate and apportionment of the city of New York may annually include in the budget for the then next ensuing financial year such sum or sums of money as it shall, in its discretion, deem necessary and proper to be applied by the department of parks of said city through the commissioner of parks for the boroughs of Manhattan and Richmond for the public educational work of the American museum of natural history, for the keeping, preservation and exhibition of the collections in the buildings in the Central park in said city that now are or hereafter may be occupied by said museum, and for the maintenance of the said buildings and equipment thereof, in addition to the sum or sums now authorized by law for such purposes.

§ 2. 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.

FRANCIS M. HUGO,  
*Secretary of State.*

# LIST OF TRUSTEES AND TERMS OF SERVICE

1869-1915

|   |                  |
|---|------------------|
| The Mayor of the City of New York .....       | 1908-            |
| The President of the Department of Parks..... | 1908-            |
| The Comptroller of the City of New York.....  | 1908-            |
| Auchincloss, Hugh.....                        | 1876-1890        |
| Baker, George F.....                          | 1914-            |
| Bickmore, Albert S.....                       | 1885-1914        |
| Bishop, H. R.....                             | 1882-1891        |
| Blatchford, Richard M.....                    | 1869-1872        |
| Blodgett, William T.....                      | 1869-1875        |
| Bowdoin, George S.....                        | 1903-1913        |
| Brewster, Frederick F.....                    | 1913-            |
| Choate, Joseph H.....                         | 1869-            |
| Colgate, Robert.....                          | 1869-1885        |
| Constable, James M.....                       | 1872-1900        |
| Cutting, R. Fulton.....                       | 1914-            |
| Cuyler, Cornelius C.....                      | 1904-1909        |
| Cuyler, Thomas DeWitt.....                    | 1910-            |
| Dana, Chas. A.....                            | 1869-1872        |
| Dodge, A. G. Phelps.....                      | 1869-1872        |
| Dodge, Cleveland H.....                       | 1904-            |
| Dodge, W. E., Jr.....                         | 1872-1903        |
| Douglas, James.....                           | 1909-            |
| Drexel, Joseph W.....                         | 1872-1888        |
| Elliot, Daniel Giraud.....                    | 1915-1915        |
| Field, Benjamin H.....                        | 1869-1893        |
| Frick, Henry C.....                           | 1914-            |
| Gerry, Elbridge T.....                        | 1894-1902        |
| Grant, Madison.....                           | 1911-            |
| Green, Andrew H.....                          | 1869-1903        |
| Grinnell, Moses H.....                        | 1869-1872        |
| Haines, William A.....                        | 1869-1880        |
| Hard, Anson W.....                            | 1894-            |
| Harriman, Oliver.....                         | 1878-1895        |
| Havemeyer, H. O.....                          | 1898-1907        |
| Havemeyer, Theodore A.....                    | 1891-1897        |
| Haven, George G.....                          | 1892-1895        |
| Hewitt, Abram S.....                          | 1874-1903        |
| Huntington, Archer M.....                     | 1909-1912, 1914- |
| Hyde, Frederick E.....                        | 1899-1909        |
| Hyde, James H.....                            | 1903-1907        |
| Iselin, Adrian.....                           | 1869-1905        |
| Iselin, Adrian, Jr.....                       | 1905-            |
| James, Arthur Curtiss.....                    | 1903-            |
| James, D. Willis.....                         | 1889-1903        |



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

# LIST OF MEMBERS

December 31, 1915

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## FOUNDERS

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

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

## BENEFACTORS

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

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

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|                       |                      |
|-----------------------|----------------------|
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| ARCHER M. HUNTINGTON. | J. P. MORGAN.        |
| ARTHUR CURTISS JAMES. | PERCY R. PYNE.       |
| CHARLES LANIER.       | WILLIAM ROCKEFELLER. |

## ASSOCIATE BENEFACTORS

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

|                        |                       |
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| JOSEPH H. CHOATE.      | ARTHUR CURTISS JAMES. |
| THOMAS DE WITT CUYLER. | A. D. JUILLIARD.      |
| CLEVELAND H. DODGE.    | CHARLES LANIER.       |
| ANSON W. HARD.         | JOSEPH F. LOUBAT.     |

\*Deceased

OGDEN MILLS.  
J. P. MORGAN.  
HENRY FAIRFIELD OSBORN.  
PERCY R. PYNE.

WILLIAM ROCKEFELLER.  
JACOB H. SCHIFF.  
JOHN B. TREVOR.  
Mrs. JOHN B. TREVOR.

FELIX M. WARBURG.

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WILLIAM H. ASPINWALL.\*  
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WILLIAM WALDORF ASTOR.  
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FREDERICK BILLINGS.\*  
HEBER R. BISHOP.\*  
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GEORGE T. BLISS.\*  
Miss SUSAN DWIGHT BLISS.  
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ROBERT BONNER.\*  
HENRY BOOTH.  
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J. A. BOSTWICK.\*  
GEORGE S. BOWDOIN.\*  
GEORGE DEXTER BRADFORD.\*  
FREDK. F. BREWSTER.  
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JAMES BROWN.\*  
Miss MATILDA W. BRUCE.\*  
HERMON C. BUMPUS.  
JOHN L. CADWALADER.\*

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ANDREW CARNEGIE.  
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JOHN J. CROOKE.  
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CORNELIUS C. CUYLER.\*  
THOMAS DE WITT CUYLER.  
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Mrs. M. SCHUYLER ELLIOT.  
JAMES R. ELY.\*  
Lieut. G. T. EMMONS, U.S.N.

\* Deceased

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 WILLIAM T. GARNER.\*  
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 LUDWIG MAX GOLDBERGER.\*  
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 ARTHUR CURTISS JAMES.  
 D. WILLIS JAMES.\*  
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 MORRIS K. JESUP.\*  
 Mrs. MORRIS K. JESUP.\*  
 H. J. JEWETT.\*  
 J. TAYLOR JOHNSTON.\*  
 Mrs. ISABELLE FIELD JUDSON.  
 A. D. JUILLIARD.  
 JAMES R. KEENE.\*

\*Deceased

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 CHAS. G. LANDON.\*  
 CHARLES LANIER.  
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 JAMES LENOX.\*  
 ADOLPH LEWISOHN.  
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 PHILIPPE B. MARCOU.  
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 OGDEN MILLS.  
 MASON MITCHELL.  
 J. PIERPONT MORGAN.\*  
 J. P. MORGAN.  
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 Mrs. WM. H. OSBORN.\*  
 OSWALD OTTENDORFER.\*  
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 HENRY W. POOR.\*  
 JOHN H. PRENTICE.  
 PERCY R. PYNE.\*  
 PERCY R. PYNE.  
 PAUL J. RAINEY.  
 CLARK LOMBARD RING.  
 J. HAMPDEN ROBB.\*  
 COLEMAN T. ROBINSON.\*  
 JOHN D. ROCKEFELLER.  
 JOHN D. ROCKEFELLER, Jr.  
 WM. ROCKEFELLER.  
 Col. ARCHIBALD ROGERS.  
 THEODORE ROOSEVELT.\*  
 THEODORE ROOSEVELT.  
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 WILLIAM C. SCHERMERHORN.\*  
 JACOB H. SCHIFF.  
 Mrs. HARRIET L. SCHUYLER.  
 HENRY SELIGMAN.  
 JESSE SELIGMAN.\*  
 CHARLES H. SENFF.\*  
 CHARLES S. SHEPARD.  
 EDWARD M. SHEPARD.\*  
 BENJAMIN B. SHERMAN.\*  
 WM. D. SLOANE.\*  
 CHARLES E. SLOCUM, M.D., LL.D.\*  
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 JAMES BAKER SMITH.\*  
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 FREDERIC W. STEVENS.  
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 A. T. STEWART.\*  
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 FRANK K. STURGIS.  
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 JOEL WOLFE THORNE.  
 JONATHAN THORNE.\*  
 JONATHAN THORNE.  
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 Mrs. JOHN B. TREVOR.  
 Mrs. JOHN B. TREVOR.  
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 Mrs. ROBERT WINTHROP.  
 Miss C. L. WOLFE.\*

JOHN D. WOLFE.\*

## FELLOWS

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

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 The Duke of BEDFORD.  
 CORTLANDT FIELD BISHOP.  
 DAVID WOLFE BISHOP.\*  
 GEORGE BLISS.\*  
 ROBERT S. BREWSTER.  
 STEWART BROWN.\*  
 WM. LANMAN BULL.\*  
 JOHN L. CADWALADER.\*  
 JAMES C. CARTER.\*  
 CHARLES W. CASS.\*

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

\*Deceased



# LIFE MEMBERS

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

ERNEST KEMPTON ADAMS.\*  
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 C. R. AGNEW.  
 G. B. AGNEW.  
 CARL E. AKELEY.  
 JOHN E. ALEXANDRE.\*  
 Admiral E. ALEXEIEFF.  
 Rev. ARTHUR HUNTINGTON ALLEN.  
 RICHARD H. ALLEN.\*  
 F. D. ALLER.  
 BERNARD G. AMEND.\*  
 F. LOTHROP AMES.  
 LARZ ANDERSON.  
 Mrs. BLANCHE L. ANDREWS.\*  
 CONSTANT A. ANDREWS.  
 FRANCIS R. APPLETON.  
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 ALLISON V. ARMOUR.  
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 Mrs. WILLIAM ARMSTRONG.  
 BENJAMIN WALWORTH ARNOLD.  
 B. G. ARNOLD.\*  
 EDWARD W. C. ARNOLD.  
 JOHN JACOB ASTOR.\*  
 VINCENT ASTOR.  
 J. T. ATTERBURY.\*  
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 Mrs. EMMA B. AUCHINCLOSS.  
 HUGH D. AUCHINCLOSS.\*  
 SAM. SLOAN AUCHINCLOSS.  
 Miss FLORENCE AUDUBON.  
 Miss MARIA R. AUDUBON.  
 Miss M. ELIZA AUDUBON.  
 SAMUEL P. AVERY.\*  
 SAMUEL P. AVERY.  
 Mrs. JAMES C. AYER.\*  
 Miss E. AYMAR.\*  
 JULES S. BACHE.  
 JAMES A. BAILEY.\*  
 JAS. MUHLENBERG BAILEY.\*  
 Miss CHARLOTTE S. BAKER.  
 GEO. F. BAKER, Jr.  
 H. MARTYN BAKER.  
 EDWIN SWIFT BALCH.

ALBERT H. BALDWIN.  
 CARROLL BALDWIN.  
 JOSEPH C. BALDWIN.\*  
 DAVID BANKS.\*  
 HENRY I. BARBEY.\*  
 Mrs. P. HACKLEY BARHYDT.\*  
 THOMAS BARING.  
 FORDYCE BARKER, M.D.\*  
 Miss CORA F. BARNES.\*  
 JAMES BARNES.  
 JOHN S. BARNES.\*  
 JOHN HENDLEY BARNHART, M.D.  
 GEORGE D. BARRON.  
 J. O. BARTHOLOMEW.\*  
 BERNARD M. BARUCH.  
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 BERTRAND F. BELL.  
 Mrs. CHRISTOPHER M. BELL.  
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 GORDON KNOX BELL.  
 LOUIS V. BELL.  
 WM. F. BELLER.  
 AUGUST BELMONT.  
 Miss BEATRICE BEND.  
 THOMAS G. BENNETT.  
 THEODORE BERDELL.\*  
 C. M. BERGSTRESSER.  
 CHARLES L. BERNHEIMER.  
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 JOHN E. BERWIND.  
 SAMUEL R. BETTS.  
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 W. LYMAN BIDDLE.  
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 JOHN BIGELOW.\*  
 Miss ELIZABETH BILLINGS.  
 FREDERICK BILLINGS.\*  
 Mrs. EMMONS BLAINE.  
 J. INSLEY BLAIR.  
 T. W. BLAKE.

\* Deceased

GEO. BLEISTEIN.  
 Miss CATHERINE A. BLISS.  
 CORNELIUS N. BLISS.\*  
 CORNELIUS N. BLISS, Jr.  
 SAMUEL J. BLOOMINGDALE.  
 GEORGE BLUMENTHAL.  
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 ROBERT BOETTGER.  
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 LOUIS J. BOURY.  
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 ANTHONY N. BRADY.\*  
 JAMES C. BRADY.  
 HENRI M. BRAEM.\*  
 COURTNEY BRANDRETH.  
 BENJAMIN BREWSTER.\*  
 FREDK. F. BREWSTER.  
 GEORGE S. BREWSTER.  
 WILLIAM BREWSTER.  
 Mrs. SAMUEL W. BRIDGHAM.  
 CHARLES LYMAN BRINSMADE.  
 CHAS. P. BRITTON.  
 WM. RUTGER BRITTON.  
 WILLIAM GOULD BROKAW.  
 ADDISON BROWN.\*  
 DICKSON Q. BROWN.  
 FRANK G. BROWN.\*  
 GEO. MCKESSON BROWN.  
 GEORGE H. BROWN.\*  
 JAMES M. BROWN.\*  
 STANLEY DOTY BROWN.  
 J. HULL BROWNING.\*  
 Miss MATILDA W. BRUCE.\*  
 DAVID LONEY BRUCE-BROWN.\*  
 WILLIAMSON BUCKMAN.  
 Captain GUY H. BURRAGE, U.S.N.  
 R. L. BURTON.  
 JOSEPH BUSHNELL  
 THOMAS C. BUSHNELL.\*  
 B. H. BUXTON.

JOHN L. CADWALADER.\*  
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 C. AMORY STEVENS.  
 Mrs. ROBERT STEWART.  
 CHARLES CHAUNCEY STILLMAN.  
 MAX WM. STÖHR.  
 ANSON PHELPS STOKES.\*  
 Miss OLIVIA E. P. STOKES.  
 Miss ANNIE STONE.  
 ALBERT H. STORER.  
 ADOLPH. D. STRAUS.  
 ISIDOR STRAUS.\*  
 JAMES STREAT.  
 Mrs. GUSTAV STROMBERG.  
 BENJAMIN STRONG, Jr.  
 THOMAS W. STRONG.\*  
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 FRANK K. STURGIS.  
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 WILLIAM L. SWAN.  
 Miss P. C. SWORDS.\*  
 HENRY M. TABER.\*  
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 JAMES TERRY.\*  
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 SAMUEL THOMAS.\*  
 WM. S. THOMAS, M.D.  
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 Colonel ROBERT M. THOMPSON.  
 WILLIAM BOYCE THOMPSON.  
 Miss ANNE THOMSON.  
 SAMUEL THORNE.\*  
 Miss EDITH W. TIEMANN.

\*Deceased

CHARLES E. TILFORD.\*  
 H. M. TILFORD.  
 ROBERT E. TOD.  
 A. N. TOWNE.\*  
 HENRY R. TOWNE.  
 A. B. TOWNSEND.\*  
 Dr. CHARLES H. TOWNSEND.  
 EFFINGHAM TOWNSEND.\*  
 SPENCER TRASK.\*  
 GEORGE A. TREADWELL.\*  
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 EDWARD TUCK.  
 Mrs. MARY A. TUTTLE.  
 SEWELL TAPPAN TYNG.  
 EDWARD UHL.\*  
 FREDERICK UHLMANN.\*  
 CARL UPMANN.  
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 ALFRED G. VANDERBILT.\*  
 C. VANDERBILT.\*  
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 GEO. W. VANDERBILT.\*  
 AMBROSE ELY VANDERPOEL.  
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 HERMAN C. VON POST.\*  
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 WILLIAM PERKINS WADSWORTH.  
 D. EVERETT WAID.  
 FREDERIC C. WALCOTT.  
 ALEXANDER WALKER.  
 Dr. HENRY F. WALKER.  
 JAMES N. WALLACE.  
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 Mrs. FELIX M. WARBURG.  
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J. WATSON WEBB.  
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 CHAS. B. WEBSTER.  
 HAMILTON FISH WEBSTER.  
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 FREDERIC DELANO WEEKES.  
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 WILLIAM P. WHARTON.  
 JAMES DUGALD WHITE.  
 JAMES GILBERT WHITE.  
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 LOOMIS L. WHITE.\*  
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 ALFRED R. WHITNEY.\*  
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 JAMES B. WILBUR.  
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 HOWARD WILLETS.  
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 R. F. WILLIAMS.  
 S. C. WILLIAMS.\*  
 WILLIAM WILLIAMS.  
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 GRENVILLE L. WINTHROP.  
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 L. G. WOODHOUSE.\*  
 Dr. ROBERT S. WOODWARD.  
 JOHN G. WORTH.  
 HENRY H. WOTHERSPOON.\*

\*Deceased.



Miss FANNY ELLEN WRIGHT.\*  
JOHN H. WYMAN.\*

Mrs. JOHN J. WYSONG.  
Mrs. CORNELIUS ZABRISKIE.  
WM. ZIEGLER.\*

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| Alexander, J. S.             | Aspell, John, M.D.           | Mrs. James Lent            |
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Barton, Mrs. F. O.  
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Thomas Henry, Jr.

Bauer, Mrs. Louis  
Baugh,

Miss Margaret L.

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Bausher, C. L.  
Baxter, G. S., Jr.  
Baxter, M., Jr.  
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Baylis, William  
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Bayne,

Mrs. Lawrence P.

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Beadleston, Edith  
Beall, Jeremiah  
Beaman,

Mrs. Charles C.

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Beck, Martin  
Beckhard, Martin  
Beckwith, Edward P.  
Bedle, J. D.  
Beecher, Wm. C.  
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Beekman, Gerard  
Beer, Mrs. J.  
Behr, Herman

Behrend, Otto F.  
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Beller, A.  
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Benedict, A. C.  
Benedict, Miss Clara J.  
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Benedict, Lemuel C.  
Benet, Miss Lillian  
Benjamin,

George Powell

Benjamin, M. W.  
Benjamin, Wm. M.  
Benkard, J. Philip  
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Mrs. Clausine M.

Benson, Miss Mary  
Bent, Arthur Cleveland  
Benton, Andrew A.  
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Bergh, Mrs. W. C.  
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Berolzheim, Emil  
Berolzheim, Philip  
Bertram, H. Henry  
Bertron, S. R.  
Berwind, Edward J.  
Berwind, Mrs. E. J.  
Bettens, Edward D.  
Bevin, Leander A.  
Bickmore, Albert H.  
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Biddle, William C.  
Bier, Sylvan  
Bigelow, Dr. Wm. S.  
Biggs,

Hermann M., M. D.

Bijur, Abraham

Bijur, Moses  
Bill, Nathan D.  
Billings, C. K. G.  
Bing, Alexander M.  
Binswanger, Max  
Bird, E. D.  
Bird, S. Hinman  
Bishop, H. R.  
Bishop, Wm. F.  
Black, Mrs. Elmer E.  
Black, George P.  
Black, Mrs. George P.  
Black, Mrs. Robert C.  
Blagden, Arthur C.  
Blagden, Dexter  
Blagden, Mrs. George  
Blagden,

Mrs. Samuel P.

Blair, C. Ledyard  
Blair, Mrs. C. Ledyard  
Blake,

Mrs. Catharine K.

Blake, Joseph A., Jr.  
Blaschke, Frederick  
Bleecker, Mrs. Theo. B.  
Bleyer, Alfred  
Bliss, Brig.-Gen.

Tasker H., U. S. A.

Bliss, Wm. H.  
Blodgett, William T.  
Blodgett, William T., 3d  
Blood,

George Whitefield

Blóodgood, Robert F.  
Bloomingdale, Hiram C.  
Bluen, Mrs. M. J.  
Blum, Mrs. H. L.  
Blumenthal, B.  
Blumenthal, Hugo  
Blumenthal, Sidney  
Blumgart, Louis  
Boardman, Miss R. C.  
Boehm, Max S.  
Boettger, Theodore  
Bogert, Miss Anna  
Boggs, Thomas K.  
Boland, John

- Bolton,  
     Reginald Pelham  
 Bond, A. Huidekoper  
 Bond, S. N.  
 Bond, Mrs. Wm. E.  
 Bondy, Richard C.  
 Bondy, Wm.  
 Bonner, G. T.  
 Bonnet, Leon Durand  
 Bonnett, Charles P.  
 Booth, Enos S.  
 Borden, Howard S.  
 Borg, Sidney C.  
 Borg, Mrs. Sidney C.  
 Borglum, Gutzon  
 Born, Edward  
 Borne, Mrs. John E.  
 Bouvier, M. C.  
 Bowditch, Charles P.  
 Bowen,  
     Mrs. Clarence W.  
 Bowers, John M.  
 Bradley,  
     Daniel Richards  
 Bradley, Mary T.  
 Bradley, Wm. H.  
 Brady, James B.  
 Brainard, Frank  
 Braman, Chester A.  
 Brawner, A. H.  
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     Mrs. John C.  
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 Breslauer, A.  
 Brewer, Horatio J.  
 Briesen, Arthur v.  
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 Brightman, F. C. M.  
 Brill, Henry S.  
 Brinkley, Jessie M.  
 Bristol, John I. D.  
 Bristow, William B.  
 Brite, Mrs. James  
 Britton, Dr. N. L.  
 Brokaw, Clifford V.  
 Brokaw, Mrs. Irving  
 Bronson, Dr. E. B.  
 Brookfield, Mrs. William  
 Brookman, Mrs. H. D.  
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     Mrs. Urban H.  
 Broun, LeRoy, M. D.  
 Brower, Wm. L.  
 Brown, Charles F.  
 Brown, Charles Hilton  
 Brown, Charles S., Jr.  
 Brown, Edwin H.  
 Brown,  
     Miss Eva R. Ingersoll  
 Brown, Franklin Q.  
 Brown, J. Adams  
 Brown, J. Alexander  
 Brown, Lathrop  
 Brown, Mrs. Samuel Q.  
 Brown, Thatcher M.  
 Brown, Vernon C.  
 Brown, Wm. Adams  
 Browne, Dr. Charles  
 Browning, J. A.  
 Browning, Mrs. J. Hull  
 Bruggerhof, F. W.  
 Brünnow, Rudolph E.  
 Bruns, Edwin G.  
 Brunswick, Mrs. E.  
 Brussel, Mrs. Dennis G.  
 Bryce, Mrs. Lloyd  
 Bryce, William  
 Buckner, M. N.  
 Buckner, Thos. A.  
 Bulkley, Edwin M.  
 Bulkley, Mrs. Edwin M.  
 Bulkley, Jonathan  
 Bulkley, Mrs. Jonathan  
 Bulkley,  
     L. Duncan, M.D.  
 Bunker, William  
 Burchell, Mrs. Janet  
 Burden, James A.  
 Burden, Mrs. Jas. A., Jr.  
 Burden, Mrs. W. A. M.  
 Burgess, Edward G.  
 Burghard,  
     Mrs. Edward M.  
 Burleigh,  
     Mrs. George W.  
 Burleigh, George Wm.  
 Burnham, Wm.  
 Burr, Algernon T.  
 Burr, Winthrop  
 Burr, Wm. H.  
 Burroughs, Chas. W.  
 Bush, D. Fairfax  
 Busk, Fred T.  
 Butler, Charles S.  
 Butler,  
     Ethan Flagg, M.D.  
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 Butler, Maxwell Evarts  
 Butler, Mrs. P. H.  
 Butler, Miss Virginia  
 Butler, Wm. Allen  
 Butler, Mrs. Wm. Allen  
 Button, Mrs. W. H.  
 Caesar, H. A.  
 Cahn, Mrs. Leopold  
 Cahn, Mrs. S.  
 Calman, Albert  
 Calman, Henry L.  
 Cammann, Henry L.  
 Cammann, H. H.  
 Cammann, Miss I. M.  
 Camp, Edward B.  
 Campbell, J. W. C.  
 Campbell, Malcolm  
 Canfield, Frederick A.  
 Canfield, George F.  
 Cannon, H. W.  
 Cannon, Mrs. S. T.  
 Capen, Mrs. Frances I.  
 Carden, Richard A.  
 Cardozo, Ernest A.  
 Carey, H. T.  
 Carleybach, Emil  
 Carnegie, Mrs. George L.  
 Carpenter, Wm.  
 Carpenter, Chas. W.  
 Carse, John B.  
 Carter, Ernest T.  
 Carter, Robert A.  
 Case, Charles L.  
 Caspary, A. H.

- Cassard, Wm. J.  
 Chaim, Morris L., M.D.  
 Chambers, Frank R.  
 Chambers, Geo. J.  
 Chambers, Hilary R.  
 Champ, William S.  
 Champollion, André C.  
     (In Memoriam)  
 Chandler, Percy M.  
 Chapin, G. E.  
 Chapin,  
     Miss Maria Bowen  
 Chapman, Clarence E.  
 Chapman,  
     Mrs. John Jay  
 Chappell, Walter F.  
 Charles, Lillian M.  
 Chatfield-Taylor, H. C.  
 Chatillon, George E.  
 Chaves, José E.  
 Chaves, Mrs. José E.  
 Cheney, Geo. L.  
 Cheney, Mrs. K. D., Jr.  
 Cheney, O. H.  
 Chesebrough, W. H.  
 Chew, Beverly  
 Child,  
     Miss Ruth Auchincloss  
 Childs, Mrs. Starling W.  
 Childs, S. W.  
 Childs, Wm., Jr.  
 Chilton, H. P.  
 Chisholm, George E.  
 Chisholm, Hugh J.  
 Chisolm, B. Ogden  
 Chisolm, Mrs. B. Ogden  
 Chisolm, Mrs. George E.  
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 Choate, Wm. G.  
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 Christy,  
     Howard Chandler  
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 Church, C. T.  
 Church, Louis P.  
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 Clafin, George E.  
 Clafin, John  
 Clapp, A. P.  
 Clapp, George H.  
 Clark, Alice L.  
 Clark, Ambrose R.  
 Clark, Bernard S.  
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 Clark, J. William  
 Clark, Louis C.  
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 Clarke, E. A. S.  
 Clarke, Thomas B.  
 Clarke, Thomas Shields  
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 Clarkson, Ashton C.  
 Clausen, George U.  
 Clayburgh, Albert  
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 Clerici, John  
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     Clement, M.D.  
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 Coates, W. J., M.D.  
 Cobb, Frank I.  
 Cochran, G. D.  
 Cochrane, A. DeWitt  
 Coffin, C. A.  
 Coffin, Edmund  
 Coffin, Francis A.  
 Coffin, I. Sherwood  
 Coffin, William S.  
 Coggeshall, Edwin W.  
 Cogswell, W. B.  
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 Cohen, Max  
 Cohen, Wm. N.  
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 Colebrook, Charles B.  
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     Mrs. Rebecca McM.  
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 Colgate, Gilbert  
 Colgate, James C.  
 Collier, Robert J.  
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 Collins, C. L.  
 Colon, George Edward  
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 Colt, Richard C.  
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 Crocker, William H.  
 Crocker, W. T.  
 Crockett, Mrs. Stuart  
 Cromwell, Miss Gladys  
 Cromwell, James W.  
 Cromwell, Lincoln  
 Cromwell, Seymour L.  
 Crosby, Maunsell S.  
 Crosby,  
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 Crump,  
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 Curtis, G. Warrington  
 Curtis, Ronald Eliot  
 Curtis, W. J.  
 Curtis, Wm. Edmond  
 Cushing, Howard G., Jr.  
 Cutcheon, F. W. M.  
 Cutler, J. Warren  
 Cutter, Ralph L.  
 Daily, George M.  
 Dallett, Frederic A.  
 Dalley, Henry  
 Dana, Charles L., M. D.  
 Dana, Paul  
 Danforth,  
     Mrs. George H.  
 Daniels, Lorenzo  
 Danziger, Virginia  
 Davenport, Mrs. Ira  
 Davey, Wm. Nelson  
 Davidge, Wm. H.  
 Davies, J. Clarence  
 Davies, Julien T.  
 Davies, Julien T., Jr.  
 Davis,  
     Rear-Admiral C. H.  
 Davis, Charles H.  
 Davis, David T.  
 Davis, George S.  
 Davis, Gherardi  
 Davis, John W. A.  
 Davis, Joseph P.  
 Davis, Leonard M.  
 Davis, Morgan  
 Davis, Mrs. William C.  
 Davison, Miss Alice M.  
 Davison, Alvah  
 Davison, C. B.  
 Davison, Miss E. H.  
 Davison, E. Mora  
 Dazian, Henry  
 Dean, Geo. Hamilton  
 de Angulo, Jaime  
 de Bary, A.  
 de Bruyn, I.  
 De Buys, A.  
 Deeves, Richard  
 de Forest, H. W.  
 de Forest, Johnston  
 de Forest, Lockwood  
 de Forest, Robert W.  
 de Forest,  
     Mrs. Robert W.  
 Degener, John F.  
 Degener, John F., Jr.  
 de Graffenried,  
     Baroness Raoul  
 De Klyn, B. F.  
 Delafield, Frederick P.  
 Delafield, Maturin L.  
 de Lagarde,  
     Cécile Denis  
 Delamar, Alice A.  
 De Lamar, J. R.  
 Delano, Lyman  
 Delano, Moreau  
 De Lanoy, William C.  
 de Laugier-Villars,  
     Countess  
 Delin, B.  
 Deming, Edwin Willard  
 Deming, L. C.  
 Dennis, John B.  
 Denny, Mrs. Lucy W.  
 DePuy, Mrs. Henry F.  
 de Rham, H. Casimir  
 de Roode, Albert  
 De Sola, Mrs. J. C.  
 Despard, Walter D.  
 Dette, William  
 Deutsch, Alexander  
 Deyo, Robert E.  
 Dick, Harris B.  
 Dick, J. Henry  
 Dickerman,  
     Mrs. Wm. C.  
 Dickey, Charles D.  
 Dickey, Mrs. Charles D.  
 Dickinson, Chas.  
 Dickinson, Dr. G. K.  
 Diedel, Henry R.  
 Diefenthäler, Charles E.  
 Diestel, Wm.  
 Dieterich, Chas. F.

Dill, Miss Mary A.  
 Dillon, Mrs. John M.  
 Dilworth, Jos. R.  
 Dimmick, J. Benjamin  
 Dimock, Geo. E.  
 Dittenhoefer, I. M.  
 Dix, John A.  
 Dix, Mrs. Morgan  
 Dobbyn, William A.  
 Dodd, Miss Gertrude  
 Dodds, Lida L.  
 Dodge, Mrs. Arthur M.  
 Dodge, Rev. D. Stuart  
 Dodge, Francis P.  
 Doelger, Charles P.  
 Doelger, Peter, Jr.  
 Dominick, Bayard, Jr.  
 Dommerich, L. W.  
 Dommerich, O. L.  
 Dorrance, Saml. R.  
 Dorsett, R. Clarence  
 Doscher, Henry  
 Douglas, Miss Elizabeth  
 Douglas,  
     Frederic Huntington  
 Douglas, Walter  
 Douglas, Wm. Harris  
 Douglass, Alfred  
 Douglass, Benjamin, Jr.  
 Douglass, Mrs. Charles  
 Douglass, Mrs. G. A.  
 Dow, Caroline B.  
 Dow, Mrs. Frederic G.  
 Dow, R. P.  
 Dowd, Joseph  
 Downes,  
     William A., M.D.  
 Downey, John I.  
 Dows, David  
 Dows, Mrs. David  
 Drake, Miss Mary E.  
 Draper, Charles D.  
 Draper, Mrs. William K.  
 Draper, Mrs. Wm. P.  
 Drayton, H. C.  
 Drayton, J. Coleman  
 Drexel, Mrs. John R.

Dreyfuss, Ludwig  
 Drummond,  
     Isaac Wyman  
 DuBois, Arthur  
 DuBois, Eugene  
 DuBois, Dr. Matthew B.  
 DuBois,  
     Mrs. Matthew B.  
 Duchardt, Henry  
 Dudley, P. H.  
 Duell, Holland S.  
 Duer, Mrs. J. B.  
 Duncan, Frederick S.  
 Duncan, Mrs. John P.  
 Duncan, Stuart  
 Dunham, Mrs. Carroll  
 Dunham, H. F.  
 Dunlap, Mrs. R.  
 Dunn, Gano  
 Dunn, Henry E.  
 Dunning,  
     Dr. William B.  
 du Pont, Henry F.  
 Durkee, Eugene W.  
 Du Val, Guy  
 Duvall, William C.  
 Dwight, A. S.  
 Dwight, John E.  
 Dwight,  
     Jonathan, M.D.  
 Dwight, Mrs. M. E.  
 Dworetzky, Morris  
 Eady, Millicent F.  
 Eaton, Fredk. H.  
 Eaton, Geo. Dummer  
 Eberstadt, Edw. F.  
 Eckart, Edmund  
 Eckstein, W. G.  
 Eder, James M.  
 Edgar, Daniel  
 Edgar,  
     Mrs. Herman LeRoy  
 Edgar, Mrs. J. Clifton  
 Edgell, George S.  
 Edgell, Mrs. George S.  
 Edie, Richard, Jr.

Edmonds, John W.  
 Edson, Mrs. J. B.  
 Edwards,  
     Wm. Seymour  
 Eger, Theodore G.  
 Egleston, Melville  
 Ehret, George, Jr.  
 Ehrich, Jules S.  
 Ehrich, Samuel W.  
 Ehrich, Mrs. Wm. J.  
 Ehrmann, Mrs. E.  
 Eilers, Karl  
 Eilshemius, Henry G.  
 Eimer, A. O.  
 Eimer, August  
 Einstein, I. D.  
 Eldridge, Fredk. L.  
 Eldridge, Lewis A.  
 Elgar, Benj. F., 2d  
 Elkan, Benno  
 Ellis, W. H.  
 Ellis, Wm. D.  
 Ellsworth, J. M.  
 Emanuel,  
     John Henderson, Jr.  
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     Mrs. F. Lawrence  
 Embury,  
     Miss Emma C.  
 Emerson, Mrs. Wm.  
 Emmet, C. Temple  
 Emmet, Miss Lydia F.  
 Emmet, Robert Temple  
 Endicott, William  
     Crowninshield  
 Eno, Miss Mary Pinchot  
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 Erbsloh, R.  
 Erdmann, Martin  
 Erdmann, William  
 Erlanger, Abraham  
 Erlanger, Milton S.  
 Ernst, Irving L.  
 Esberg, A. I.  
 Esberg, Henry  
 Eschwege, M. C.  
 Ettlinger, Louis

- Evans, William T.  
 Everett, Mrs. Leo  
 Ewing, Charles  
  
 Fabbri, Ernesto G.  
 Fahnestock, Harris  
 Fairbanks, Henry P.  
 Fairchild, Charles S.  
 Fairchild, Mrs. Chas. S.  
 Fairchild, S. W.  
 Falk, Mrs. G.  
 Falk, Kaufman George  
 Falls, K. S.  
 Farish, John B.  
 Farnam, Thomas W.  
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     Mrs. Horace P.  
 Farnsworth, William  
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 Farrel, Mrs. Franklin  
 Farrington, Wm. H.  
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 Fatman, S. A.  
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 Fellows, Wm. Gordon  
 Fenhagen, James C.  
 Ferguson, Alfred L.  
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     Mrs. Farquhar  
 Ferguson, Walton  
 Ferguson, William C.  
 Ferris, Frank A.  
 Festetics, Countess E.  
 Feustman, L. P.  
 Field, Wm. B. Osgood  
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     Mrs. Wm. B. Osgood  
 Finch, Edward B.,  
     M. D.  
 Firuski, Louis L.  
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     Hermann, M.D.  
 Fischer, T. Tasso  
 Fisher, L. G.  
 Fisher, Mrs. Rose  
 Fisher, Miss Ruth B.  
  
 Fisk, Pliny  
 Fiske, Alex. P.  
 Fitch, Ezra H.  
 Fitz-Simon, Mrs. Wm.  
 Flagler, Harry Harkness  
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     Mrs. Joseph A.  
 Fleck, Dr. Charles E.  
 Fleischer, Nathan  
 Fleischmann, Gustav J.  
 Fleitmann, H. C.  
 Flesh, William J.  
 Fletcher, Henry  
 Fletcher, Isaac D.  
 Flexner, Mrs. Simon  
 Fliess, Robert A.  
 Flint, Chas. R.  
 Floersheimer,  
     Mrs. Samuel  
 Floyd, William  
 Floyd, William T.  
 Floyd-Jones, Edward H.  
 Fohr, Franz  
 Follett, Richard E.  
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 Fordyce, Dr. John A.  
 Forni,  
     Madame F. G. Fara  
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 Foster, Harold A., M.D.  
 Foster, Macomb G.  
 Foster, Scott  
 Fowler, A. A.  
 Fowler, Harold  
 Fowler, Thomas Powell  
 Fox, Miss Alice Bleecker  
 Fox, Hugh F.  
 Fox, Mortimer J.  
 Fox, Thomas Francis  
 Franchot, Douglas W.  
  
 Frank, Joseph  
 Frank, Joseph S.  
 Franke, Julius  
 Frankel, D. J.  
 Frankel, Herbert  
 Frankenberg, Henry E.  
 Frankenberg,  
     Werner V.  
 Frankfield, A.  
 Frankfort, M.  
 Fraser, George C.  
 Fraser, Miss J. K.  
 Fraser, Miss S. Grace  
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 Freeman, Zoheth S.  
 Frelinghuysen,  
     Frederick  
 French, Daniel C.  
 French, Mrs. Daniel C.  
 French, S. A.  
 Frenkel, Emil  
 Freund, Mrs. E.  
 Frew, Walter E.  
 Frew, Mrs. W. N.  
 Friedlander, Louis  
 Friedlander, Victor  
 Friedlander, Wm. S.  
 Fries, Miss Emilie  
 Fries, Harold H.  
 Frissell, A. S.  
 Frissell, Miss Leila S.  
 Frye, Jed  
 Fuld, Felix  
 Fuld, Sol.  
 Fuller, Miss Clara C.  
 Fuller, Mrs. Eugene  
 Fulton, Robert Edison  
  
 Gaillard,  
     Mrs. William D.  
 Gallatin, Albert  
 Gallatin, Mrs. Albert  
 Gallatin, Goelet  
 Gallaway, Robert M.  
 Gambier, E. V.  
 Gardin, John E.  
 Gardiner, Robert A.



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Garrett, Laura B.  
Garrett, Robert  
Gartland, George E.  
Garver, John A.  
Gates, Mrs. Thos. B. M.  
Gaunt, James  
Gawtry, H. E.  
Geer, Robert C.  
Geer, Walter  
Gelshenen, Madeleine  
Gerrish, Frank Scott  
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Gibbs, Mrs. Edward N.  
Gibson,

Miss Florence Wier  
Gilbert, Clinton  
Gilbert, Miss Ellen G.  
Gilbreth, Frank B.  
Gillies, Edwin J.  
Gilroy, Thomas F., Jr.  
Gips, Walter Fuld  
Gladding, J. R.  
Glazier, Henry S.  
Gleason, Henry  
Glenn, John M.  
Goadby, W. H.  
Goddard, Annie C.  
Goddard,

Mrs. Frederic N.  
Godfrey, Mrs. E. D.  
Godkin, Lawrence  
Goeller, Leopold F.  
Goldberg, Samuel W.  
Goldfrank, Mrs. M.  
Goldman, Julius  
Goldsmith, Frederick  
Goldsmith, Mrs. H. B.  
Goldsmith, James A.  
Goldsmith, Louis  
Goldstone, Abraham L.  
Goldwasser, I. Edwin  
Goldzier, Morris  
Goodfriend, Jacob  
Goodfriend, Meyer  
Goodhue, Chas. E.  
Goodwin, Walter L.

Gordon, W. S.  
Gosman, Richard H.  
Gottgetreu, Wm.  
Gottheil, Leon  
Gottheil, Paul  
Gotthold, Arthur F.  
Gould, Charles A.  
Gould, Chas. W.  
Gould, Edwin  
Gould, Edwin, Jr.  
Gould, Horace S.  
Gouled, Peter  
Grace, Mrs. L. A.  
Graham, Miss M. D.  
Grant, Rev. Dr.

Percy Stickney  
Grasselli, C. A.  
Graves, Henry, Jr.  
Gray, Henry G.  
Graydon,

Mrs. Clendenen  
Greeff, Bernhard, Jr.  
Greeff, Ernest F.  
Green, Fred W.  
Greene,

Miss Augusta Borland  
Greene, G. S., Jr.  
Greene, John Arthur  
Greenebaum, Fred H.  
Greenhut, Benedict J.  
Greening, Alfred C.  
Greenwood,

Miss Eliza R.  
Greer, Austin M.  
Greer, Charles  
Greer, Rt. Rev. David H.  
Greer, Mrs. David H.  
Greer, Louis M.  
Gregory, Chas. E.  
Griffin, Mrs. W. P.  
Griffith, Edward  
Griggs, Miss Constance  
Grinnell, E. Morgan  
Griscom, C. A., Jr.  
Griswold, Mrs. Chester  
Gross, Moritz  
Gross, Theodore

Grossmann,  
Mrs. Edward A.  
Grosvenor, Mrs. James  
Grundner, M.  
Gude, O. J.  
Guernsey,

Henry William  
Guggenheim, Simon  
Guggenheim, William  
Guinness,

Mrs. Benjamin  
Guinzburg, A. M.  
Guinzburg, Mrs. Victor  
Guiteras, Ramon  
Gurnee, Mrs. Walter S.  
Gushee, R. A.  
Guye, C. H.

Haas, Kalman  
Hage, Daniel S.  
Hague, Arnold  
Hague, William  
Hahlo, Arthur H.  
Haines, Charles D.  
Hale, Thomas  
Hall, Henry J. S.  
Hall, Henry Walker  
Hall, Mrs. John H.  
Hall, Thomas C.  
Halle, J. S.  
Halls, William, Jr.  
Halsey,

Mrs. Frederick A.  
Halsey, Robert H.  
Halsey, R. T. H.  
Hamann, Wm. A.  
Hamburger, B.  
Hamburger, L.  
Hamburger, Samuel B.  
Hamersley,  
Louis Gordon

Hamilton, Alexander  
Hamilton, Miss E. S.  
Hamilton,  
Mrs. W. Pierson  
Hamlen,  
Dr. George Dempster  
Hammerslough, Edward

Hammerslough, Samuel  
 Hammill, C. W.  
 Hammond,  
     Mrs. John Hays  
 Hammond,  
     Mrs. John Henry  
 Hammond, Ogden H.  
 Hanauer, Jerome J.  
 Hance, John A.  
 Hand, Joseph C.  
 Handy, Parker D.  
 Hanna, Elizabeth  
 Hanna, L. C.  
 Hansen, Ferdinand  
 Hard, De Courcy L.  
 Hardenbergh, T. E.  
 Hardenbergh,  
     Mrs. W. P.  
 Hardon, Mrs. Henry W.  
 Hardy,  
     Dr. Sarah Belcher  
 Hare, J. Montgomery  
 Harkness, David W.  
 Harmon, Mrs. Clifford  
 Harmon, Mrs. Frank D.  
 Harrington, Mary E.  
 Harris, Alfred  
 Harris, William H.  
 Harrison, Archibald  
 Hartshorn, Stewart  
 Haskell, J. Amory  
 Haskin, Dr. W. H.  
 Hasslacher, Jacob  
 Hastings, Thomas  
 Hastings, Mrs. Thomas  
 Hately, John C.  
 Hathaway, Charles  
 Havemeyer, F. C.  
 Havemeyer, H. O.  
 Havemeyer, J. C.  
 Havemeyer, John F.  
 Havemeyer, T. A.  
 Haven, Mrs. G. G., Jr.  
 Haven, J. Woodward  
 Haviland, Paul B.  
 Hawk,  
     Mrs. William Samuel

Hawk, William S.  
 Hawkes, Eva  
 Hawkes,  
     Mrs. McDougall  
 Hawkins, Eugene D.  
 Hawley, Samuel B.  
 Haynes, W. deF.  
 Hazard, F. R.  
 Hazard, Rowland G.  
 Hazen, George H.  
 Healy, A. Augustus  
 Hebbard, Edgar C.  
 Hedges, Job E.  
 Heide, Henry  
 Heimann, Julius  
 Heinsheimer, Alfred M.  
 Held, Max  
 Heller, Samuel  
 Heller, William H.  
 Hellman, Henry  
 Helme, Mrs. Geo. A.  
 Helmer, Mrs. G. J.  
 Helmuth,  
     John Lockman  
 Hencken, Hancke  
 Henderson, John B., Jr.  
 Hendricks, Mrs. Edgar  
 Hendricks, Harmon W.  
 Henriques, Clarence A.  
 Henry, Miss H. Maud  
 Henry, James  
 Henry, Philip W.  
 Hepburn, A. B.  
 Herbert, William  
 Herman, Max  
 Hershheim, Joseph  
 Heroy, Mrs. James H.  
 Heroy, W. W.  
 Herreshoff, J. B. Francis  
 Herrick, Harold  
 Herrick, Mrs. W. W.  
 Herrmann, Charles E.  
 Herrmann, F.  
 Herter, Albert  
 Herter,  
     Mrs. Christian A.  
 Herz, Fred. W.

Herzig, Mrs. Joseph  
 Herzog, Max  
 Hess, Dr. Alfred F.  
 Hess, Selmar  
 Hess, Simon  
 Hewlett, Walter Jones  
 Heydt, Herman A.  
 Heymann, Albert  
 Heymann, Seymour E.  
 Hicks,  
     Mrs. Frederick C.  
 Hicks, John M. W.  
 Hicks,  
     Miss Minnie Helen  
 Higbie, James S.  
 Highet, Frank B.  
 Hilder, Moritz  
 Hillard, Henry R.  
 Hillegas, M. B.  
 Hills, Dr. Alfred K.  
 Hilyard, George D.  
 Hinchman, Walter  
 Hinckley,  
     Mrs. Samuel N.  
 Hine, Francis L.  
 Hine, Lyman N.  
 Hine, Thomas A.  
 Hines, Walker D.  
 Hirsch, Albert  
 Hirsch, Chas. S.  
 Hirsch, Mrs. H.  
 Hirsch, Morris J.  
 Hirschberg, M. H.  
 Hirschhorn,  
     Mrs. Charles  
 Hirschhorn, Fred  
 Hirschland, F. H.  
 Hitzrot, Jas. Morley  
 Hoagland,  
     Mrs. Joseph C.  
 Hochschild, Berthold  
 Hodenpyl, Anton G.  
 Hodges, Geo. W.  
 Hodgson, Caspar W.  
 Hodson,  
     Mrs. Halstead Pell  
 Hoe, Alfred G.

Hoe, Geo. E.  
 Hoe, Richard M.  
 Hoe, Mrs. Robert  
 Hoe, William J.  
 Hoffman, Charles W.  
 Hoffman, F. B.  
 Hoffman, Joseph E.  
 Hoffman, Wm. Wickham  
 Hogan, Mrs. Jefferson  
 Hoggson, W. J.  
 Hoisington,  
     Frederick R.  
 Holbrook, Mrs. Edward  
 Holden, Mrs. Edwin B.  
 Holden, Geo. A.  
 Holland, Arthur L.  
 Hollenback,  
     Miss Amelia B.  
 Hollister, Dr. F. K.  
 Hollister, Granger A.  
 Holt, Henry  
 Holt, R. S.  
 Holter, Mrs. E. O.  
 Holzmaister, L. V.  
 Homan, B. H.  
 Homans, Howard P.  
 Homer, C. S.  
 Honig, Joseph  
 Hopkins,  
     Miss Augusta D.  
 Hopkins, Russell  
 Hoppin, G. Beekman  
 Hoppin, Mrs. W. W., Jr.  
 Hopwood,  
     Mrs. Everard B.  
 Horr, L. Wm.  
 Hotchkiss, Henry D.  
 Houghton, Clement S.  
 House, Edward M.  
 House, Frederick B.  
 Housman, Clarence J.  
 Howard-Martin, E.  
 Howe, Richard  
 Howell, M. D.  
 Howell, Mrs. Thomas A.  
 Hoyt, Elizabeth S.  
 Hoyt, Francis S.

Hoyt, Geo. S.  
 Hoyt, Gerald L.  
 Hoyt, Miss Gertrude L.  
 Hubbard,  
     Ernest V., M.D.  
 Huber, Mrs. J. M.  
 Hudson, Percy K.  
 Huidekoper, Edgar  
 Humphreys, Frederic E.  
 Humphreys, Frederic H.  
 Humphreys, Geo. H.  
 Hunt, Mrs. Leigh  
 Hunt, Lucy  
 Huntington, F. J.  
 Huntington,  
     Mrs. Robt. P.  
 Huntington, Mrs. R. P.  
 Hüpfel, Adolph G.  
 Hüpfel, J. Chr. G.  
 Hurd, Dr. Lee M.  
 Hussey, William H.  
 Husted,  
     Miss M. Katharine  
 Husted, Seymour L., Jr.  
 Hutchinson, Cary T.  
 Huyler, C. D.  
 Huyler, David  
 Huyler, Frank DeK.  
 Hyatt, A. M.  
 Hyde, A. Fillmore  
 Hyde, Mrs. Augustus L.  
 Hyde, Mrs. Clarence M.  
 Hyde, E. Francis  
 Hyde, W. Truslow  
 Ingalls, Fay  
 Ingraham, Geo. L.  
 Inman, John H.  
 Innis, Wm. R.  
 Iselin, C. Oliver  
 Iselin, Miss Georgine  
 Iselin, John H.  
 Iselin, Lewis  
 Iselin, Mrs. William E.  
 Iselin, Wm. E.  
 Jackson, Mrs. C. D.  
 Jackson, Francis DeMilt

Jackson, Geo. T., M.D.  
 Jackson, Jas. W.  
 Jackson, Martin F.  
 Jackson, Mrs. Percy  
 Jackson, Samuel  
 Jacob, Moe  
 Jacobus, John S.  
 Jaffray, Robert  
 James, Henry, Jr.  
 James, Norman  
 James, Robert C.  
 James, Mrs. Walter B.  
 Jansen, Ed.  
 Jaretzki, Mrs. Alfred  
 Jarvie, James N.  
 Jay, Mrs. Augustus  
 Jekyll, Mrs. Arthur B.  
 Jenkins, A. B.  
 Jenkins, Alfred W.  
 Jennings, Miss A. B.  
 Jennings, Robt. E.  
 Jennings, Walter  
 Jewett, Geo. L.  
 Jobe, Miss Mary L.  
 Johnson, Alfred J.  
 Johnson, Mrs. Bradish  
 Johnson,  
     Douglas Wilson  
 Johnson, Guy B.  
 Johnson, Mrs. Harry T.  
 Johnson, James G.  
 Johnson, Rankin  
 Johnston, J. Herbert  
 Johnston,  
     Mrs. J. Herbert  
 Johnston, Walter S.  
 Jones, Mrs. Adam Leroy  
 Jones, A. H.  
 Jones, Mrs. Cadwalader  
 Jones, H. Bolton  
 Jones, Townsend  
 Joseph, Mrs. John A., Jr.  
 Josephthal, Louis M.  
 Judge, Hubert A.  
 Judson, Mrs. Albert L.  
 Judson, Henry I.  
 Jungbluth, Karl

- Kahn, Otto H.  
 Kahn,  
     Dr. Robert Johnstone  
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 Kane, Mrs. De Lancey  
 Kassing, Edwin S.  
 Kathan, Reid A.  
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 Kaufmann, B.  
 Kaufmann, H. M.  
 Kaufmann, Julius  
 Kaufmann, Otto  
 Kauep, Wilhelm  
 Kautz-Eulenburg,  
     Miss P. R.  
 Kean,  
     Mrs. Hamilton Fish  
 Keech,  
     Mrs. Frank Browne  
 Keeler,  
     Mrs. Charles Bradley  
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 Keith, Minor C.  
 Keith, Mrs. Minor C.  
 Keller, S.  
 Kellers, Fred. T.  
 Kellogg, Mrs. Chas.  
 Kellogg, L. D.  
 Kellogg, Mrs. Morris W.  
 Kemmerer, M. S.  
 Kemp, Mrs. Edward  
 Kemp, Prof. James F.  
 Kempner, Elias  
 Kennan, George  
 Kennedy, Dr. Harris  
 Kennedy, Mrs. John S.  
 Kent, Edwin C.  
 Kenyon, Wm. Houston  
 Keppel, David  
 Kernan, Mrs. W. N.  
 Kerr, E. Coe  
 Kerr, John B.  
 Kerr, John Clapperton  
 Kerr, Walter  
 Kerrison, Dr. Philip D.  
 Keyes, Dr. E. L.  
 Keyser, Mrs. Samuel
- Kidder, C. G.  
 Kidder, Edward H.  
 Kiernan, Patrick  
 Kilborne, Mrs. R. S.  
 Killeen, Edward V.  
 Kilner, S. E.  
 Kimball, Alfred R.  
 Kimbel, Anthony  
 Kimbel, Henry  
 King, Augustus F.  
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 King, Ellen  
 King, Miss Isabella C.  
 King, James Gore  
 King, Le Roy  
 Kingsford, Daniel P.  
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     Mrs. Wm. M.  
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 Kinney, Morris  
 Kinney, Warren  
 Kip, W. Ruloff  
 Kirchberger, M.  
 Kirkpatrick,  
     Mrs. Thomas
- Kissel, W. Thorn  
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 Klein, Leo M.  
 Klenke, William H.  
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 Knapp, Edward J.  
 Knapp, Mrs. H. K.  
 Knapp, John B., M. D.  
 Knapp, Joseph P.  
 Knoedler, Roland F.  
 Knowlton, Eben B.  
 Koenig, Otto  
 Kohlman, Chas.  
 Kohn, S. H.  
 Kohns, Lee  
 Kohnstamm, Emil V.  
 Koles, Henry M., M. D.  
 Konta, Alexander  
 Kosmak, Geo. W., M. D.  
 Kremer, Mrs. William N.  
 Krone, Wm.  
 Krower, Louis
- Kruse, Edward H.  
 Kudlich, H. C.  
 Kuhn, Arthur K.  
 Kuhn, August  
 Kuhn, Edward  
 Kuhn, Julius  
 Kursheedt, Roland S.  
 Kuser, Mrs. Anthony R.  
 Kuser, John Dryden  
 Kuttroff, Adolf  
 Kuttroff, Fredk.
- Lacombe, E. Henry  
 Ladenburg, Mrs. Adolf  
 Lagai, Dr. G.  
 Lagowitz, Miss H. L.  
 Laidlaw, Mrs. Henry B.  
 Lake, Henry S.  
 Lamarche,  
     Mrs. Henry J.  
 Lambert, Adrian V. S.  
 Lambert, Dr. Alexander  
 Lambert, Samuel W.  
 Lamont, T. W.  
 L'Amoreaux, J. S.  
 Landon, Francis G.  
 Landon, Henry Hutton  
 Lane, Edward V. Z.  
 Lane, James Warren  
 Lane, Wolcott G.  
 Langeloth, Mrs. Jacob  
 Langmann, G., M. D.  
 Lanier, Reginald B.  
 Lapham, Mrs. John J.  
 Lapham, Lewis H.  
 Lapsley, Anna Welsh  
 Lathers, Agnes  
 Lathrop, Alanson P.  
 Lauder, Geo., Jr.  
 Lauer, Edgar J.  
 Laughlin, James, Jr.  
 Laurie, Lee  
 Lauterbach,  
     Mrs. Amanda F.  
 Lauterbach, Edward  
 La Vie, Geo. A.  
 Lawrence, Emlen N.

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Miss Margaret  
Lawrence, Townsend  
Lawrence, William W.  
Lawrence, W. V.  
Lea, Charles M.  
Leale, Charles A., M.D.  
Leary, Mrs. George  
Leaycraft, J. Edgar  
Lederman, M.  
Ledyard,  
Mrs. Lewis Cass  
Lee, Charles N.  
Lee, Frederic S.  
Lee, Mrs. Frederic S.  
Lee, Ivy L.  
Lee, Dr. Marguerite T.  
Lefferts, Marshall C.  
Lefferts, Wm. H.  
Legg, George  
Lehmaier, James M.  
Lehmaier, Mrs. Louis A.  
Lehman, Arthur  
Lehman, Irving  
Lehman, Meyer H.  
Leigh, B. W.  
Leigh, R. Walter  
Leland, Mrs. Amory  
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Dr. James Stephen  
Lemp, Louis  
Leonori, Charles L.  
Le Roy, Mrs. E. A., Jr.  
LeRoy, Dr. Louis C.  
Lesser, Jacob J.  
Lester, Henry M.  
Leupp, Wm. H.  
Leventritt, David  
Levi, Albert A.  
Levi, Emil S.  
Levine, Edmund J.  
Levison, Benno, Jr.  
Levy, Edgar A.  
Levy, Ephraim B.  
Levy, Louis S.  
Lewis, Alphons  
Lewis, Mrs. August

Lewis, Mrs. Eugene  
Lewis, Frederic Elliott  
Lewis, Richard V.  
Lewis, Wm. J., M.D.  
Lewisohn, Mrs. Adolph  
Lewisohn, Miss Irene  
Lewisohn, Julius A.  
Lewkowitz, Gustav  
Lexow, Mrs. Allan  
Lichtenstein, Melvin  
Lichtenstein, Paul  
Lichtenstein, Mrs. Paul  
Lie, Jonas  
Lieb, J. W., Jr.  
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Lilienthal,  
Howard, M.D.  
Limburg, Herbert R.  
Lincoln, Lowell  
Lindsey, Edward  
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Lisman, Frederick J.  
Littauer, Lucius N.  
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Livingston, Miss A. P.  
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Mrs. Charles L.  
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Gilbert Robert, Jr.  
Livingston, John G.  
Lloyd, Francis G.  
Lobenstein, W. C.  
Lockwood,  
Dr. George Roe  
Loeb, C. M.  
Loeb, J.  
Loeb, Mrs. Morris  
Loeser, Vincent  
Loewenthal, Mrs. Julius  
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Long, Louis  
Lord,  
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Loring, D. A.  
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Daniel Alden, Jr.  
Lorsch, Henry  
Loudersback, Arthur E.  
Louis, Chas. H.  
Love, E. G.  
Lovett, R. S.  
Low, Ethelbert I.  
Low, Miss Louisa  
Low, Miss Nathalie F.  
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Lowenstein, Oscar  
Lowndes, M. E.  
Lowrey, Mrs. G. C. W.  
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Ludlow, R. Fulton  
Ludlum, C. A.  
Lueder, A.  
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Lummis, Benjamin Rush  
Luquer, Lea Shippen  
Lusk, Miss Anna H.  
Lüttgen, Walther  
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Mahl, Wm.

- Main, Frank H.  
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     Miss Elisabeth  
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     Mrs. George Grant  
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     Robert Edgar  
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     Mrs. Minnie A.  
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     Mrs. Thomas P.  
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     Miss Sophie Hoffman  
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     Malcolm, M.D.  
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     Rev. Joseph H.  
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     Philip Ainsworth  
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     Dr. William J.  
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     Capt. Henry, U.S.A.  
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     Mrs. Wm. Keith  
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     Mrs. R. Burnham  
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     Mrs. Casimir de R.  
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     Mrs. Russell Wellman  
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     Theodore Wilson  
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     Mrs. Charles M.  
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 Munson, C. W.

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 Murray, J. Archibald  
 Murray, J. Irvin, Jr.  
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 Myers, Theo. W.  
 Myers, William S.  
  
 Nagle, James Franklin  
 Nash, William A.  
 Nathan, Frederick  
 Nathan, Harmon H.  
 Naumburg, Aaron  
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 Nessler, H. D.  
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 Nicholson, John E.  
 Nickerson, Hoffman  
 Nicolson, John  
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     Regina Armstrong  
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 Norton, W. P.  
 Notman, George  
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 Nugent, Frank L.  
 Nute, Mrs. John W.  
  
 Oastler, Dr. F. R.  
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 Obermeyer, Theo.  
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 Ochs, Adolph S.  
 O'Connor, William A.  
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 Offerman, John  
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     Mrs. E. Howard  
 Ogden, David B.  
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 Olcott, E. E.  
 Olcott, Geo. M.  
 Olin, S. H.  
 Ollesheimer, Henry  
 Ollive, Thos. S.  
 Olney, Elam Ward  
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 Olyphant, Robert  
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 Opdycke,  
     Mrs. Leonard E.  
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 Oppenheim, Myron H.  
 Oppenheimer,  
     Dr. Henry S.  
 Ornstein, Dr. Georg  
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 Orvis, Edwin W.  
 Osborn, A. Perry  
 Osborn, H. Fairfield, Jr.  
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     Miss Josephine A.  
 Osterholt, Ehler  
 Otis, Mrs. George L.  
 Ottinger, Marx  
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 Overton, Frank  
  
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     Mrs. Eugene H.  
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 Page, J. Seaver  
 Page, Wm. H.  
 Pagenstecher, A.

- Paine, A. G., Jr.  
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 Painter, Mrs. U. H.  
 Palmenberg, Emil T.  
 Palmer,  
     George B., D.D.S.  
 Palmer, Howard  
 Palmer, John  
 Palmer, John Stanton  
 Palmer, Laura A.  
 Palmer, Milton C.  
 Palmer, N. F.  
 Palmieri, F. Louis  
 Pappenheimer,  
     Alvin M., M.D.  
 Pardee, Ario  
 Paret, J. Parmly  
 Pariser, Robert  
 Parker, A. W.  
 Parker, Forrest H.  
 Parker, Junius  
 Parker, Robert A.  
 Parker, Winthrop  
 Parks, Elton  
 Parodi, Dr. Teofilo  
 Parrish, James C.  
 Parsons, Chas. W.  
 Parsons, Edgerton  
 Parsons, Edwin  
 Parsons, Frank H.  
 Parsons, Miss Gertrude  
 Parsons, Herbert  
 Parsons, Schuyler L.  
 Parsons, Wm. Barclay  
 Paskus, Benj. G.  
 Paterson, R. W.  
 Paton, Dr. Stewart  
 Paton, Wm. Agnew  
 Patterson, Frederick H.  
 Patterson, T. H. Hoge  
 Paul, John J.  
 Pavenstedt, E.  
 Payne, Mrs. W. A.  
 Peabody, Rev. Endicott  
 Peabody, Stephen  
 Pearson, Mrs. Frederick  
 Peck, Charles E.  
 Peck, Charles H.  
 Peck, L. O.  
 Peckham,  
     Mrs. Wheeler H.  
 Pedersen, Dr. James  
 Pegram,  
     Edward Sandford  
 Pell, Mrs. Stephen  
 Pellew, Henry E.  
 Pennington, Aaron S.  
 Perine, William D. N.  
 Perkins, George E.  
 Perkins, George W.  
 Perkins, G. Lawrence  
 Perkins, R. P.  
 Perry, William A.  
 Perry, Mrs. William A.  
 Peters, Edward McClure  
 Peters, Samuel T.  
 Peterson,  
     Frederick, M.D.  
 Peterson, Mrs. Wilson  
 Petrasch, Carl Schurz  
 Pfeiffer, Curt G.  
 Pfender, W. S.  
 Pfletschinger,  
     Mrs. L. A.  
 Philipp, M. Bernard  
 Philipp, Philip B.  
 Phillips,  
     Mrs. Alfred Noroton  
 Phillips, Harriet S.  
 Phillips, John M.  
 Phipps, Henry  
 Pickering, Henry G.  
 Pickhardt, Carl  
 Piel, Gottfried  
 Piel, Michael  
 Pierce, Anna Shepard  
 Pierrepont, Seth Low  
 Pierson, Mrs. C. W.  
 Pierson, D. H.  
 Pillot, P. Stuyvesant  
 Pinkerton, Allan  
 Place, Charles W.  
 Place, Ira A.  
 Platt, Charles H.  
 Platt, Mrs. Frank H.  
 Platt, Lewis A.  
 Platzek, M. Warley  
 Plaut, Joseph  
 Plympton, Gilbert M.  
 Polhemus, Miss R. A.  
 Polk, Dr. Wm. M.  
 Pollock, George E.  
 Pomeroy, D. E.  
 Pomroy,  
     Mrs. Henry K.  
 Poor, Mrs. Charles Lane  
 Poor, Mrs. Horace F.  
 Poor, Roger M.  
 Poor, Ruel W.  
 Pope, G. D.  
 Pope, Mrs. James E.  
 Pope, Sylvester  
 Pope, Theodate  
 Porter, Alexander J.  
 Porter, Clarence  
 Porter, Mrs. Clarence  
 Porter, Gen. Horace  
 Porter,  
     Mrs. Rachel Lenox  
 Porter, William L.  
 Porter, Wm. H.  
 Post, Abram S.  
 Post, Mrs. Charles A.  
 Post, Sylvester  
 Potter, Miss Blanche  
 Potter, Frederick  
 Potter, James Brown  
 Potter,  
     Dr. Mary Goddard  
 Potter, Orlando B.  
 Potter, R. Burnside  
 Pottier, Auguste Ruffin  
 Potts, Jesse W.  
 Potts, William B.  
 Powell, Wilson M.  
 Powers,  
     Cornelius Van Vorst  
 Powers, John C.  
 Pratt, Albert Houghton  
 Pratt, Dallas B.  
 Pratt, Mrs. Frederic B.



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 Pratt, John T.  
 Prentiss, Henrietta  
 Prescott, Amos L.  
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 Prince, J. Dyneley  
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 Proctor, Mrs. Chas. E.  
 Proctor, Thomas R.  
 Proctor, Wm. Ross  
 Prudden, T. Mitchell  
 Pryer, Chas.  
 Pulitzer, Mrs. Joseph  
 Pulitzer, Ralph  
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 Purdy, Wm. Macneven  
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 Putnam, Geo. P.  
 Putnam, H. S.  
 Putney, Miss Eva C.  
 Pyle, D. H. McAlpin  
 Pyle, James McAlpin  
 Pyne, M. Taylor  
 Pyne, Mrs. M. Taylor  
 Pyne, Percy R., 2d
- Quigg, Lemuel E.  
 Quincy, C. F.  
 Quinlan, Wm. J., Jr.  
 Quinn, John  
 Quintard, Dr. Edward
- Rabe, Rudolph F., M.D.  
 Rahlson, K. J.  
 Raht, Chas.  
 Rainsford, Mrs. W. S.  
 Ramsay, D. S.  
 Ramsperger, H. G.  
 Randolph, Coleman  
 Randolph, Edmund D.  
 Rascovar, James  
 Rathborne, Richard C.  
 Rau, Henry M.  
 Rauch, William  
 Rawle, Henry
- Raymond, Charles H.  
 Raymond, Irving E.  
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     Mrs Eleanor Atkinson  
 Read, Geo. R.  
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 Recht, Rudolph  
 Redmond, Miss Emily  
 Redmond, Mrs. Henry S.  
 Redmond, Mrs. Roland  
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 Rees, R. Llewelyn  
 Regensburg,  
     Mrs. Jerome  
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 Reid, Wallace  
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 Reis, Fred. L.  
 Remick, W. H.  
 Remsen, Charles  
 Rendigs, Chas. W.  
 Renwick,  
     Edward Brevoort  
 Reuter, Miss Mary F.  
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 Richard, Miss Elvine  
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 Richards, Eben  
 Richardson,  
     Catherine L.  
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     Mrs. C. Tiffany  
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     Mrs. Enos S. T.  
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- Rives, George L.  
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 Robbins, George W.  
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 Robert, Samuel  
 Roberts, George I.  
 Roberts, G. Theo.  
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 Robertson, R. H.  
 Robinson, Beverley R.  
 Robinson, Douglas  
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     Mrs. Drew King  
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     Mrs. T. Douglas  
 Rockefeller,  
     Mrs. Wm. G.  
 Rockwood, Wm. H.  
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 Rodewald, F. L.  
 Roe, Gen. Chas. F.  
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 Rogers, Edward L.  
 Rogers, Francis  
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     Mrs. Jas. Gamble  
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 Rolle, Augustus J.  
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     Rev. Francis, Ph.D.  
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- Rosenbaum, Selig  
 Rosenbaum, Sol. G.  
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     Mrs. V. Sydney  
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     Ralph Stowell, Jr.  
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 Rowland, Thos.  
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 Sachs, Bernard, M.D.  
 Sachs, Harry  
 Sachs, Julius  
 Sachs, Samuel  
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 Sage, Dean  
 Saks, Isadore  
 Salomon, Chas.  
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     Harry R., Ph.D.  
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     Mrs. Franklyn B.  
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 Saril, August  
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     Mrs. Herbert L.  
 Satterlee, Miss Mabel  
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 Schaefer, Geo. G.  
 Schaefer, J. Louis  
 Schaefer, R. J.  
 Schafer, Samuel N.  
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 Schaller, Otto  
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     H. Ernest  
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     Mrs. Elma M.  
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     Heinrich, Jr.  
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     Miss Mary  
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 Schrader, Geo. H. F.  
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 Schwarz, Henry F.  
 Schwarz, Paul  
 Schweitzer, Dr. Hugo  
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 Schwob, Adolphe  
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 Scudder, Hewlett, Jr.  
 Scudder, Moses L.  
 Scudder, Myron T.  
 Scudder, Willard  
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 Seligman, Isaac N.  
 Seligman, Jefferson  
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     Cummings

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     Herman Humboldt  
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 Siegel, William  
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 Simpson, David B.  
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 Simpson, J. F.  
 Simpson, John Boulton  
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 Skinner, William  
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 Slade, Francis Louis  
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     Miss Josephine C.  
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     M.D., LL.D.  
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     Daniel M., M.D.  
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     Arnold, M.D.  
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     Charles H., M.D.  
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 Zinsser, August, Jr.  
 Zinsser, Wm. H.  
 Zoller, Charles







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“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.”