









THE  
AMERICAN MUSEUM OF NATURAL HISTORY.



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THE  
AMERICAN MUSEUM OF NATURAL  
HISTORY,

CENTRAL PARK, NEW YORK CITY,  
Seventy-seventh Street and Central Park West.

ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT, LIST OF ACCESSIONS,  
ACT OF INCORPORATION, CONSTITUTION,  
BY-LAWS AND LIST OF MEMBERS  
FOR THE YEAR 1900.



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

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## THIRTY-SECOND ANNUAL REPORT.

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*To the Trustees and Members of the American Museum of Natural History :*

I have the honor to submit herewith a brief statement of the proceedings of the Museum for the year 1900 :

FINANCES.—Your attention is directed to the Treasurer's Report on pages 30, 31, 32 and 33, presenting separately the receipts and disbursements for Maintenance and Endowment.

At the annual meeting of the Board, held at the beginning of the year, expenditures for maintenance amounting to \$137,489 were authorized, an amount \$17,489 in excess of that appropriated by the city. This estimated deficit has been reduced, and the Trustees have contributed \$12,000, so that we might begin the present year without debt. The total sum subscribed by the Trustees since the opening of the Museum, to meet the yearly recurring deficits in this account, now amounts to \$250,393.

BOARD OF TRUSTEES.—Mr. Percy R. Pyne was elected a Trustee at the Annual Meeting held in February, and was also made a member of the Executive Committee.

At a meeting of the Trustees held May 14 it was my sad duty to announce the decease of our valued associate, Vice-President James M. Constable. His death was a great personal loss, inasmuch as he was intimately and actively associated with me in the administration of the affairs of the Museum. Almost from the time of his election to the Board he served as Chairman of the Executive Committee, and since 1890 he has been our First Vice-President.

On December 15 the Board met with the loss of another of its members through the death of Mr. Oswald Ottendorfer. Mr. Ottendorfer was elected a Trustee in 1886, and his deeds attest the deep interest which he took in the objects and aims of the Museum. Although his impaired health prevented him from attending regularly the meetings of the Trustees, his devotion to the Museum was manifested repeatedly through his generous contributions.

LEGISLATION.—By the terms of Chapter 185 of the laws of 1900, reprinted on another page of this report, the city authorities were empowered to expend \$350,000 for the completion and equipment of the east and west corner wings and for such other purposes as might be agreed upon between the Department of Parks and the Trustees of the Museum. Of this sum an issue of bonds to the amount of \$150,000 has been authorized by the Board of Estimate and Apportionment.

MEMBERSHIP.—During the year just closed Messrs. Percy R. Pyne, George A. Hearn, George T. Bliss, Frederick A. Constable, Charles M. Jesup, Edwin H. Weatherbee; Mrs. Josiah M. Fiske, Mrs. Morris K. Jesup and Miss Elizabeth M. Sturgis were elected "Patrons," Messrs. John L. Cadwalader and Wm. Earl Dodge, 3d, became "Fellows," and the following-named persons were elected "Life Members": Messrs. C. R. Agnew, G. B. Agnew, Thomas Baring, J. O. Bartholomew, Bertrand F. Bell, Theodore Berdell, William Brewster, Joseph Bushnell, Hugh J. Chisholm, Lester B. Churchill, George C. Clausen, Treadwell Cleveland, Bird S. Coler, Samuel D. Collins, Frederick Cromwell, Eugene Delano, Anthony Dey, William A. DuBois, Horace Gray, E. H. Harriman, George B. Hopkins, Archer M. Huntington, Frank D. Hurtt, Walter B. James, Theodor Whitman Knauth, John Burling Lawrence, John R. Livermore, Francis H. Markoe, M. D., George W. Maynard, Ernest Schernikow, William Trotter, Robert A. Van Wyck; Miss Ellen H. Cotheal, Miss Ethel DuBois, Miss H. Olive Trowbridge, Mrs. David S. Egleston, Mrs. E. C. Moore and Mrs. Charles Boughton Wood.

I regret to record the decease of Henry Villard, Collis P. Huntington, Jonas G. Clark, Appleton Sturgis and James Baker Smith, all "Patrons" of the Museum; and of Messrs. Frederick E. Church, E. J. Donnell, R. G. Dun, John Alsop King, Percival Knauth, Mandeville Mower, George Richards and Mrs. E. Keep-Schley, "Life Members."

ENDOWMENT FUND.—It is a pleasure to report that the Endowment Fund has been increased by a gift of ten thousand dollars from Mrs. Josiah M. Fiske, to be invested and designated "The Josiah M. Fiske Fund." The income of this fund is to be used at the discretion of the Trustees. A contribution of one thousand dollars received from Mr. George A. Hearn has also been added to the Endowment Fund. The Permanent Invested Fund now amounts to \$400,000, yielding a yearly income of \$20,280.

I feel it my duty again to refer to the great need of a much larger Invested Fund. With the growth of the Museum as a whole there are naturally increased demands from the various departments and our activities have increased beyond the means at our disposal. Each season's work reveals greater opportunities for an increase of our collections, and if our prestige is to be maintained we must take advantage of these opportunities.

The Museum has become a valuable ally to the educational institutions, both of the City and State; indeed, teachers and pupils from neighboring States are often met in the Exhibition Halls, and the work of the Department of Public Instruction has been adopted by ten States and two foreign countries. This alone is ample justification for the course the Trustees have taken in the past, and the need of a substantial endowment to perpetuate the institution as an educational power is nothing short of imperative.

ADDITIONS TO THE BUILDINGS.—The New Lecture Hall was completed early in the fall, and was dedicated on Wednesday afternoon, October 30.

The new structure was formally transferred to the Trustees by the Honorable George C. Clausen, President of the Department of Parks, and accepted by your President on behalf of your

Board. A complete report of the opening exercises has been incorporated in this report.

TRANSPORTATION.—The courteous aid extended in the past to our field parties has been continued by the following railroads: The Southern Pacific, the Wabash, and Missouri Pacific, the Union Pacific, the Canadian Pacific and trans-Pacific connections, the Chicago & Northwestern, and Chicago, Milwaukee & St. Paul, the Atchison, Topeka & Santa Fé, the Denver & Rio Grande, the Chicago, Burlington & Quincy, and the Northern Pacific.

ATTENDANCE.—The number of visitors during the year was 523,522, an increase of 65,071 above the record for 1899. The Museum was closed in the evening during the summer season for the purpose of making repairs to the electric lighting plant.

Your attention was directed in the report of last year to the largely increased use of the Museum's material by classes from public and private schools. The record for the year shows that 5,302 teachers and scholars availed themselves of the privilege of studying the collections.

Certain classes in the public schools of this city are now permitted by the Board of Education to visit the Museum during recitation hours to examine the collections in connection with their daily studies.

ACCESSIONS.—I invite your attention to the long list of accessions in the later pages of this report. Of special note is the gift of the Andrew Ellicott Douglas Collection of Prehistoric Indian Relics. Mr. Douglas has been engaged in forming this collection since 1887. He began with a single find of forty-five objects, and now his collection numbers twenty-three thousand specimens. The collection is complete in itself, and is of unique scientific value. Many of the specimens are of exquisite beauty, and the terms of gift provide for the preservation of its integrity as a collection.

Mr. Fordham Morris has presented the Trustees with a large portrait of the late John J. Audubon, the naturalist, painted by his sons, John and Victor. This has been placed in the reading



room of the library with the pictures presented by the late Mr. C. P. Huntington, and by Mr. William C. Havemeyer and other friends of the Museum.

EXPEDITIONS.—The several Museum expeditions during the year have secured important knowledge in relation to past and present peoples. This will be made known through the exhibition of specimens obtained, and by the series of papers and memoirs now in course of publication.

*Jesup North Pacific Expedition.*—During the present year the party sent to the Amoor River in Siberia returned, bringing much information relating to the tribes inhabiting that area. Dr. Berthold Laufer, who was in charge of this work, collected information particularly among the Gold, Gilyak and Ainu, and his collections illustrate the life of these tribes. During the past year a party was also sent out to the Sea of Okhotsk to carry on investigations among the Chukchee and the Koryak. This party is in charge of Mr. Waldemar Jochelson, who is to devote himself to a study of the Koryak and Yukagheer, while Mr. Waldemar Bogoras is to concentrate his attention particularly upon the Chukchee. Mr. Alexander Axelrod is to do anthropometric work among these tribes. Work was also carried on on Vancouver Island, where, during the past year, Dr. Boas continued his former researches among the Kwakiutl Indians. Mr. Livingston Farrand continued his work among the Quillayute on the west coast of the State of Washington, and Mr. James Teit was engaged in investigations among the Chilcotin Indians. Many specimens from these regions were secured for the Museum. In August, Dr. John R. Swanton started for Queen Charlotte Islands, where he is to remain for a year, investigating the Haida.

*Mrs. Morris K. Jesup Expedition.*—Mr. A. L. Kroeber has remained in charge of this expedition, and has continued his work on the symbolism of the Arapaho Indians, spending the greater part of his time among the northern Arapaho in Wyoming, from which place he has sent a very large collection of specimens to the Museum.

*Huntington Expedition to California.*—The work of collecting among the fast-vanishing tribes of California, which was instituted by the late Mr. C. P. Huntington, was continued during the present year. Dr. Roland B. Dixon continued his work successfully among the Maidu Indians in the foothills of the Sierras east of Sacramento River, and he visited a number of other tribes for comparative study. There is much yet to be done among the California Indians, and it is hoped that this exploration may be continued.

*Villard Expedition to Oregon.*—The conditions among the Indians of Oregon are such that the extinction of a number of tribes may be expected within a few years. This fact induced the late Mr. Henry Villard to provide for an investigation of these tribes; and during the past summer Dr. L. Farrant made a thorough investigation of the Alsea, a tribe which is reduced to not more than about a dozen individuals. At the same time Dr. Farrant succeeded in making a valuable collection of specimens illustrating the primitive life of several tribes of this region.

*Mexican Expedition.*—During the winter of 1899-1900 Mr. Saville was engaged in the exploration of the ruins of Mitla and vicinity. He was very successful in the scientific results of the exploration, and discovered many important facts in relation to the architecture of the buildings composing this noted group.

Several cruciform subterranean structures were found at Mitla, the walls of which were in several instances as elaborately ornamented with mosaic work as are those of the great "palaces." By the generous aid of the Duke of Loubat, Mr. Saville was able to return to Mitla in November last, where he is now engaged in exploration.

*The B. T. B. Hyde and F. E. Hyde, Jr., Southwestern Expedition.*—In April last, Dr. A. Hrdlička, accompanied by Mr. W. Orchard, an assistant in the department, carried on anthropometric and other ethnological research in New Mexico, Arizona and southern Colorado. He visited the pueblos of Moki, Zuñi,

Laguna, Acoma, Isleta, Jemes, San Domingo, San Juan and Taos ; and the Apache reservations at White River, San Carlos, Mescalero ; also the Jicarillas and southern Utes. He was so successful as to obtain the measurements of over nine hundred Indians of the various tribes and groups visited ; also many physical examinations, eighty facial moulds, and over five hundred negatives of the people and their occupations. He also secured the materials for several ethnic groups, and fifty skulls and skeletons with various objects found in ancient graves.

It now remains to make similar researches on the more western tribes and those of portions of Mexico, in order to complete the plan of comparative study of the south and west. In connection with this work, the Messrs. Hyde have formed in the department a special reference library of works relating to the southwestern portion of America. They have bought a number of paintings by distinguished artists, and have had hundreds of photographs printed from the negatives taken by the several expeditions. They have also had several hundred lantern-slides made for use in lectures illustrating the particular subjects of their work. This great interest on their part, and their generous contributions to the Museum, cannot be too highly commended. During the summer vacation the Curator was able to visit New Mexico in connection with the work of this expedition, and to make a comparative study of a large number of ruins on the mesas and in the cañons in relation to their contemporaneity and their greater or less antiquity. In addition to the results obtained by their expeditions, the Messrs. Hyde have been able to purchase several important collections, made several years ago at the cliff houses and from caves, which are of great value for comparative study, and could not now be obtained from these sites.

*South American Expedition.*—The most important receipts from Mr. Bandelier's researches during the year are from his explorations of ancient tombs in the vicinity of Lake Titicaca. Included in this lot are many trephined skulls, also various specimens of pottery and other objects from tombs and village sites. Our collection, showing the different forms of trephining by the prehistoric peoples of Peru and Bolivia, is made one of great importance by

these large additions. This collection is now exhibited in a case on the Western Gallery.

*Explorations in New Jersey.*—Through the generous and continued patronage of Dr. F. E. Hyde, the important work in the glacial gravel and other deposits in the Delaware Valley, and the exploration of old village sites and burial-places, have been continued by Mr. Ernest Volk. A number of specimens of the handiwork of man have been found by Mr. Volk under such conditions as to show their great antiquity and their contemporaneity with the formation of certain of these deposits. The evidence thus secured during these many years of conscientious research “has made it impossible for any one familiar with the facts to doubt that man was living at the time of the deposit of these formations in the valley.” Mr. Volk has also secured remains of several human skeletons, which were found at such great depth, and under such conditions, as to prove their very considerable antiquity. He has also obtained a large number of objects relating to the early Indian occupation of the valley.

*Local Explorations.*—The small appropriation granted for the exploration of the shell-heaps, Indian village sites, and burial-places in the limits of the city or in its immediate vicinity, sufficed to keep Mr. Harrington in the field during the summer. He was fortunate in discovering an ancient village site on Long Island, which was thoroughly examined, from which he collected pottery, stone implements, and other objects, as well as several skeletons. Afterward he explored several interesting rock shelters north of this city. There are other similar shelters which should be explored before the close of the coming summer. Through these local explorations Mr. Harrington has interested several parties who have given a number of specimens to the Museum.

DEPARTMENT OF ANTHROPOLOGY.—During the last six years the Department of Anthropology has made such remarkable progress that one is tempted to dwell upon the results attained, and to prophesy for its future; but I must confine myself to brief extracts from the report of Professor Putnam in relation to its

development during the past year, with the conviction that in time the department will present as perfect a history of the life of man as it is possible to secure. To bring this about, however, we must not feel that because we have obtained so much, our efforts should be diminished in the slightest degree. On the contrary, what has been accomplished should be our incentive to still greater work, that in the end there shall be no regret over lost opportunities. Realizing our responsibilities in relation to future generations, we can but acknowledge our present duty of securing the means for unremitting labors by interesting as many persons as possible in this great educational work, and thereby securing foundations and special funds for its accomplishment. Many enlightened and liberal patrons have helped in the past, and are helping now, while some have been called from their labors. It is to be hoped that these examples will be followed by others, until, with many patrons providing the means for research and for gathering the treasures to be displayed in the palatial structure to be extended by the City, this Museum shall increase from year to year, and in every way shall be the great centre—in the metropolis of America—for the promulgation of knowledge to the people.

To remain stationary in our work, and to limit our objects, would be to lose all hope for the future of the department. The life of man has many phases, and these must be traced in all parts of the earth. To understand his appearance and his life on this continent, we must have the means of comparative study of the facts offered by other lands. It is therefore essential that while still greater efforts should be made for research in America, in order to obtain every possible fact relating to pre-Columbian times and to our so-called native peoples, we are also bound to make special exertions for the accumulation of data relating to every other land.

The new collections arriving during the year were catalogued, poisoned, and put on exhibition or stored to await the completion of the halls assigned to the department.

A new system of keeping the records of the department has been introduced, and the correspondence and information relating to each collection have been brought together and filed. The system consists in giving each collection an accession number and

entering in the inventories the accession number of each specimen. All information relating to the accession is placed in a numbered envelope, so that it is possible, whenever desired, to find the whole correspondence relating to a given specimen or collection. A card catalogue is kept of all the accessions.

As a provision of safety, the envelopes containing these important records are placed in a document room, where they may be subject to the call of the department. In connection with this matter, the curator also suggests that a copy should be made of all inventories of the department for filing in the document room in another part of the building, in order to guard against the loss of these records by accident to the inventories in daily use in the department. Besides the inventories, the department is beginning a card catalogue of specimens. Instructions were given to assistants in the department to prepare cards for every addition in their sections as received during this year, and to continue the work on past accessions whenever practicable. For this great work, additional assistants are required in order to bring it to the desired speedy conclusion. Nine thousand eight hundred and seventy-six entries of specimens received have been made in the catalogues during the year, and 3,219 negatives and lantern-slides have been catalogued.

The work of installation of the Ethnological Section, which is under the special charge of Dr. Boas, was carried on in the North Hall on the first floor, which, according to the plans of the department, is to contain only the collections from the North Pacific coast of America. The remainder of the Emmons Collection has been placed on exhibition, and the collections of the Jesup North Pacific Expedition are now exhibited in this hall. A descriptive pamphlet showing the arrangement of the hall, and giving much valuable information, was prepared by Dr. Boas, and has been distributed to visitors specially interested. In the western vestibule there has been placed a number of large totem-poles, grave-posts, and house-posts, and several casts of rock inscriptions belonging to the collection in the adjoining North Hall, where there is not room for their exhibit owing to their size. In this vestibule, also, the Omaha skin tent presented by Dr. F. E. Hyde has been pitched.

The installation of the collections in the West Hall on the first floor was completed so as to open it to the public on November 1. This hall is to be devoted to the American Indian and Eskimo.

As all the halls assigned to the ethnological exhibits will be crowded to their utmost capacity during the coming year, there will not be sufficient room for the exhibition of the collections now on hand, and which are rapidly increasing through the Museum expeditions.

The large collection from various countries received from the Ecumenical Conference, and known as the Missionary Collection, has been temporarily arranged and exhibited in the eastern hall of the East Wing, which is assigned to the Zoölogical Department. It makes an interesting and instructive exhibit from several countries, and forms nuclei about which will grow important exhibits from distant lands.

Mr. Saville has had special charge of the archæological collections from Mexico and Central America. During the winter of 1899-1900 he was engaged in an exploration about the ruins of Mitla, working under the special concession of the Mexican Government to this Museum.

The Mexican Hall was closed for a time while being re-arranged, but was re-opened to the public on November 1, when a brief sketch of the contents of the hall was printed for distribution to visitors. The important Stahl collection from Puerto Rico—a personal gift from the President of the Museum—is placed temporarily in this hall.

The Western Gallery on the third floor, containing the collections from South America, was opened to the public on November 1.

The delay in the completion of the cases in the West Hall on the second floor, which will contain the archæological exhibits from the cliff houses and pueblos, and also the ethnological material from the present pueblos of the Southwest, as well as certain other North American archæological collections, has prevented the installation of the large and important collection received from the Messrs. Hyde.

## DEPARTMENT OF GEOLOGY AND ASSOCIATED DEPARTMENTS.—

The past year has been one of very little growth in the collections of the Department of Geology, etc., except in the section of mineralogy. Two gifts to the geological section, however, are worthy of mention here; that from the Smithsonian Institution of a series of specimens of Pre-Cambrian slates containing fragments of a crustacean much more ancient than any organism discovered previously; and that from H. Linden, secretary of the Zoölogical Station at Naples, Italy, of an entire volcanic bomb of large size from the summit of the volcano of Gran' Cratere on the island of Vulcano, near Sicily. Eight specimens of the trilobite, *Triarthrus becki*, which are remarkable for the preservation of the legs and antennae, were added by purchase.

The Curator of the department wrote and placed in position about one thousand exhibition labels for specimens in the James Hall collection, which nearly completes the labeling of that collection.

The work on the Catalogue of Types and Figured Specimens in the collections of the department has advanced rapidly. Part III, comprising pages 190-356 of the Catalogue and including the Devonian forms, was issued in October. The preliminary cards for the most of the remainder of the collection have been prepared and the completion of this important work during the coming year is assured.

The collection of recent invertebrates has received no additions of importance during the year.

The mineral collection has been increased by a number of gifts, the specimens added representing, in some part, obscure species, and also very beautiful examples of more common groups. The Department is again called upon in these additions to recognize the generosity of Miss M. W. Bruce.

At the close of the year a changed aspect was given to the whole future of the Mineral Cabinet by the prospect of our acquiring the Bement Collection of Minerals.

The Gem Collection has received some valuable single additions, embracing Quartz, Agate, Garnet, and Gold specimens, but its character and extent have been, simultaneously with the mineral cabinet, greatly changed through the generosity of Mr. Morgan,



in its acquirement of the gem material exhibited by Tiffany & Co. at the Paris Exposition of 1900.

The installation of these new gems and the incorporation with them of the specimens of the former collection will proceed in the new Gem Room, and may be expected to be completed during the coming year.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.—The Department of Vertebrate Zoölogy has received 728 mammals, 1,048 birds, and about 25 reptiles and fishes. The most important additions have been obtained by purchase, and include various small collections from Alaska, Mexico, Peru, and Venezuela. The South American collections, though small, have added a considerable number of species not previously represented in the Museum, several of which proved new to science. An especially important addition consists of a number of fine specimens of Moose, Bear and Caribou from the Kenai Peninsula, Alaska. A number of valuable specimens have been received in the flesh from the New York Zoölogical Park and from the Central Park Menagerie.

The Museum is indebted to Mr. W. H. Phelps for a specially noteworthy gift of 300 Venezuelan birds, many of them new to the collection, and embracing the type specimens of several species.

About thirty mammals, forty-six birds, four reptiles and five fishes have been mounted and added to the Exhibition Collection; also thirteen mounted skeletons of mammals, including three Gorilla skeletons (male, female, and young), an Orang, Gibbon, Potto, and Ornithorhynchus. Four mammal groups have been added to the series designed to illustrate the fauna of the immediate vicinity of New York City, and others are well advanced in preparation.

DEPARTMENT OF VERTEBRATE PALEONTOLOGY.—This Department will celebrate the decennial of its establishment by the Trustees in May, 1901, as its organization was completed just ten years ago. In the Curator's report to the President a brief review of the history of the Department is made, including an outline of various expeditions after fossil mammals and reptiles in the

Rocky Mountains and an account of the very important acquisitions which have been made by purchase and exchange. There are altogether in the collection 8,534 specimens of fossil mammals, varying from a single tooth to complete skeletons. Six hundred and forty-eight specimens of fossil reptiles have been collected, and this number will be increased by 3,245 specimens in the second Cope collection. The exhibition has been enriched by many exchanges. Four hundred and thirty-eight specimens, and one hundred and fifteen casts have been sent out in exchange, chiefly to Museums in Europe. The total number of specimens in the department is now estimated at 12,708. The department has thus advanced a long way towards its original purpose of giving a complete history of the vertebrate life on the North American continent, but there are some important gaps to be filled, especially among the fishes.

During the past year valuable exchanges have been received, especially from Stuttgart, and additional exchange collections are expected in the near future.

Four separate expeditions were sent into the field; the largest force returned to the famous "Bone Cabin" quarry in Wyoming and secured 100 specimens, including parts of skulls, limbs and separate bones of Dinosaurs not hitherto represented in the collection. Late in the season, with the coöperation of Mr. G. R. Wieland of Yale University, through the courtesy of Professor Beecher, an extensive survey was made in the Black Hills region, which resulted in the securing of parts of two more Dinosaurs.

Mr. Barnum Brown returned from Patagonia with twenty-four boxes of the ancient fossil mammals of South America, which are now being worked up for immediate exhibition. In July he was sent by the Curator into the Laramie beds of Wyoming and returned in January with a complete skeleton of a duck-bill Dinosaur, and an incomplete skeleton of a carnivorous Dinosaur; these will make beautiful exhibition specimens.

The fourth expedition, under Mr. Gidley, revisited the fossil mammal beds of Texas and secured a fine skull and jaws of a new type of elephant, portions of the skeletons of fossil horses and limbs of extinct camels.

A special photographic dark room has been fitted up for the Department, and, at the expense of the Curator, a very beautiful series of photographs have been taken by Mr. Anderson of some of the finer specimens in the collection; also of some of Knight's restorations of the extinct vertebrates. It is proposed to publish these restorations, together with the photographs of the complete mounted skeletons upon which they are based.

The work of cataloguing has proceeded steadily, Dr. Matthew taking charge of the mammals. Dr. Hay has taken charge of the reptiles, but has given some time to the mammals. All of our collections except the Patagonian collection and the second Cope collection are now catalogued. In the work of cataloguing the Dinosaurs, Mr. Granger and Mr. Thompson have rendered valuable assistance.

Professor Osborn went abroad partly in the interests of the Department and represented the Museum at the Geological Congress in Paris. Dr. Matthew was given a leave of absence for quite an extensive tour of the foreign museums, during which he made many valuable notes and observations.

After a number of experiments a permanent method of mounting the small specimens in attractive form with the use of fixed color cards has been adopted. Dr. Matthew and Mr. Thompson have made considerable progress in this work.

DEPARTMENT OF ENTOMOLOGY.—During the past year considerable progress has been made in the arrangement of the study collection of Coleoptera, and a large number of specimens have also been placed on exhibition. One hundred enlarged drawings of minute beetles have been made, and are ready for exhibition cases.

The Very Rev. E. A. Hoffman has generously donated 1,000 specimens of butterflies from North and South America and Asia. These will be placed on exhibition as soon as the cases can be provided. The entire collection of butterflies presented by Dr. Hoffman now aggregates over 5,000 specimens.

About 800 specimens of local Hymenoptera have been placed on exhibition.

From July 10 to August 10 the Curator spent his time in the Black Mountains in western North Carolina for the purpose of collecting material. Over 3,000 specimens were obtained, all of which have been mounted. The results of the expedition are such as to warrant the continuation of the researches.

Field work in the vicinity of New York has resulted in the addition of many rare species to our local collection.

A monograph of the Sesiidæ, a work containing about 150 pages, with eight colored plates, has been prepared for the Memoirs.

LIBRARY.—The report of the Librarian reveals an increase of 9,157 volumes, making a total of 52,689 volumes. The most notable addition to the Library is the gift of General Egbert L. Viele, U. S. A., of 1,136 volumes, 960 Nos., 1,833 pamphlets and 66 maps. Many of these works enable the Librarian to complete unfilled series which were very difficult to obtain.

The Museum is also indebted to the Honorable Amos E. Cummings and the Honorable William Astor Chanler for contributions of government publications required to complete missing numbers.

The Duke of Loubat has also donated a number of very valuable and rare works pertaining to anthropology.

DEPARTMENT OF PUBLIC INSTRUCTION.—Prof. Albert S. Bickmore has delivered the regular courses of lectures under the terms of the contract with the State Superintendent of Public Instruction, and has given two courses of four lectures each to the members of the Museum by request of the Trustees.

The free lectures delivered on Tuesday evenings under the auspices of the Board of Education have been attended by large and appreciative audiences. Several courses of lectures have been delivered under the auspices of Columbia University on Saturday evenings.

In compliance with the request of the President, Mr. Frank M. Chapman, Assistant Curator of the Department of Vertebrate Zoölogy, gave a series of six lectures to the members of the Museum and the Audubon Society.

The lectures were given at the Museum on Saturday afternoons and were illustrated with stereopticon views.

LECTURES TO THE TEACHERS OF THE PUBLIC SCHOOLS.  
PROF. ALBERT S. BICKMORE.

*Spring Course, 1900.*

- Jan. 20, 27.—The Philippines in 1899.  
Feb. 3, 10.—Guam to Honolulu.  
“ 17, 24.—Hawaiian Islands—Kauai, Molokai and Maui.  
Mar. 3, 10.—The Riviera—Genoa to Marseilles.  
“ 17, 24.—The Pyrenees.

*Autumn Course, 1900.*

- Nov. 3, 10.—Introductory—International Exhibitions, from London in 1851 to Chicago in 1893.  
“ 17, 24.—Paris Exposition of 1900—The Avenue of Nicholas II. and the Esplanade of the Invalids.  
Dec. 1, 8.—The Street of Nations and the Gardens of the Trocadero.  
“ 15, 22.—Champ de Mars.

*Holiday Course, 1900.*

- New Year's Day.—The Hawaiian Islands.  
Washington's Birthday.—Alaska.  
Thanksgiving Day.—Introductory—International Exhibitions, from London in 1851 to Chicago in 1893.  
Christmas.—Paris Exposition of 1900—The Avenue of Nicholas II. and the Esplanade of the Invalids.

MEMBERSHIP COURSE. PROF. ALBERT S. BICKMORE.

*Spring Course.*

- Mar. 8.—The Philippines in 1899.  
“ 15.—Alaska.  
“ 22.—The Riviera.  
“ 29.—The Pyrenees.

*Autumn Course.*

- Nov. 22.—Introductory—International Exhibitions, from London in 1851 to Chicago in 1893.  
Dec. 6.—Paris Exposition of 1900—The Avenue of Nicholas II. and the Esplanade of the Invalids.  
“ 13.—The Street of Nations and the Gardens of the Trocadero.  
“ 20.—The Champ de Mars.

COLUMBIA UNIVERSITY COURSE.

ASTRONOMY.

Prof. J. K. Rees, of Columbia University.

- Jan. 6.—Comets and Meteors.  
“ 13.—Recent Interesting Achievements of Astronomical Photography.  
“ 20.—The Solar Eclipse of May 28, 1900; Path of Totality Across the United States.  
“ 27.—South American Observatories: Their Instruments and Work.

PALEONTOLOGY.

- Feb. 3.—Mr. Gilbert van Ingen, of the Department of Geology, Columbia University—The Oldest Fossils.
- “ 10.—Dr. Wm. Diller Matthew, of the American Museum of Natural History—The Habits of Some Extinct Animals and the Causes of Their Extinction.
- “ 17.—Dr. Arthur Hollick, of the Department of Geology, Columbia University—The Vegetable Kingdom, from its Beginning to the Appearance of Modern Types.
- “ 24.—Dr. John Mason Clarke, State Palæontologist—The Geological History of Parasites.

METALLURGY.

- Mar. 10.—Mr. Albert Sauveur, Lecturer on Metallurgy, Harvard University—The Constitution of Metallic Alloys in the Light of Modern Research.
- “ 17.—Mr. Henry Souther, Consulting Engineer, of Hartford, Conn.—Toledo Blades: Rationale of the Procedure in Manufacturing Them and Other Steel Objects Explained by the Microscope.
- “ 24.—Professor H. O. Hofman, of the Massachusetts Institute of Technology, Boston, Mass.—Lead Smelting in the United States.
- “ 31.—Professor J. W. Richards, of the Lehigh University, South Bethlehem, Pa.—Aluminum.

SATURDAY AFTERNON COURSE BY THE STAFF OF THE MUSEUM.

BIRDS IN NATURE.

By Frank M. Chapman, Assistant Curator, Department of Vertebrate Zoölogy.

- Nov. 10.—The Relation of Birds to Man; the Relations of Man to Birds.
- “ 17.—Distribution and Migration of Birds.
- “ 24.—Birds' Nests.
- Dec. 1.—The Eggs and Young Birds.
- “ 8.—Habits and Structure of Birds.
- “ 15.—Colors of Birds.

BOARD OF EDUCATION FREE LECTURES.

- Jan. 9.—The Land of the Sun-Down Sea.....Mr. G. Wharton James.
- “ 16.—The Ramona of Fact and Fiction.....Mr. G. Wharton James.
- “ 23.—A Pilgrimage to the Old Missions of California.  
Mr. G. Wharton James.
- “ 30.—From Alpine Snow to Semi-Tropical Sea....Mr. G. Wharton James.
- Feb. 6.—In and Around the Golden Gate.....Mr. G. Wharton James.
- “ 13.—The Colorado River and Its Cañons.....Miss Mary V. Worstell.
- “ 20.—Alaska and the Klondike.....Mr. John B. Burnham.
- “ 27.—Greenland. Illustrated by stereopticon views...Prof. Wm. Libbey.
- Mar. 6.—The New York Aquarium.....Prof. Chas. L. Bristol.
- “ 13.—The Zoölogical Garden.....Prof. H. F. Osborn.
- “ 20.—Botanical Gardens.....Dr. N. L. Britton.
- “ 27.—The Discovery of the Seven Cities of Cibola..Mr. G. Wharton James.
- Apr. 3.—The Province of Tusayan and the Snake Dance.  
Mr. G. Wharton James.
- “ 10.—The Grand Canyon of the Colorado.....Mr. G. Wharton James.
- “ 17.—The Wonderful Cataract Cañon Home.....Mr. G. Wharton James.
- “ 24.—Acoma and the Enchanted Mesa.....Mr. G. Wharton James.

- Nov. 6.—Japan.....Mr. A. C. Maclay.  
 “ 13.—Japanese Feudalism and Its Castles.....Mr. A. C. Maclay.  
 “ 20.—China and the Chinese. ....Mr. Guy Morrison Walker.  
 “ 27.—Imperial India.....Dr. John C. Bowker.  
 Dec. 4.—“ Burmah.”.....Mr. Gerhard J. Schilling.  
 “ 11.—The Muslim World.....Dr. Thomas P. Hughes.  
 “ 18.—Asiatic Manners and Customs.....Mr. George Donaldson.

THE NEW YORK BOTANICAL GARDEN.

- Apr. 5.—Report of Progress on the Development of the Garden.  
 Dr. N. L. Britton.  
 “ 12.—The Relation of Light and Color to Plants.....Dr. D. MacDougal.

THE LINNÆAN SOCIETY OF NEW YORK CITY.

- Jan. 11.—A Naturalist in Cuba.....Mr. Frank M. Chapman.

THE NEW YORK MINERALOGICAL CLUB.

- Jan. 18.—Geysers ; their Action and Mineralogical Products.  
 Dr. T. A. Jaggar, Jr.  
 “ 25.—The Black Hills of South Dakota ; their Geology and Mineralogy.  
 Dr. E. O. Hovey.

PUBLICATIONS.—The publications issued by the Museum during 1900 greatly exceed those of any preceding year. They include Vol. XIII of the Bulletin, consisting of pages i-x, 1-330, with 19 plates and 216 text figures; Part III of Volume XI, pages 189-356; Part VI of Volume I of the Memoirs; Parts IV, V and VI of Volume II, completing the Volume, and Part I of Volume IV. Also Part I of the “Ethnographical Album of the North Pacific Coast of North America and Asia,” and five numbers of “The American Museum Journal,” the publication of which was begun during the present year. The list of articles in the Bulletin and Memoirs published in 1900, arranged by Departments, is as follows:

DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Catalogue of Types and Figured Specimens in the Palæontological Collection of the Geological Department, American Museum of Natural History. By R. P. Whitfield, assisted by E. O. Hovey. (Bull. XI, pp. 189-356.)

Observations on and Descriptions of Arctic Fossils. By R. P. Whitfield. (Bull. XIII, pp. 19-22, pl. i and ii.)

Description of a New Crinoid from Indiana. By R. P. Whitfield. (Bull. XIII, pp. 23, 24, pl. iii.)

Note on Principal Type Specimen of *Mosasaurus maximus* Cope, with illustrations. By R. P. Whitfield. (Bull. XIII, pp. 25-29, pl. iv and v.)

Note on an Interesting Specimen of Calcite from Joplin, Missouri. By L. P. Gratacap. (Bull. XIII, pp. 95-97, pl. vi, and 4 text figures.)

## DEPARTMENT OF VERTEBRATE ZOÖLOGY.

The Mountain Caribou of Northern British Columbia. By J. A. Allen. (Bull. XIII, pp. 1-18, 18 text figures.)

Some Results of a Natural History Journey to Northern British Columbia, Alaska, and the Northwest Territory, in the Interest of the American Museum of Natural History. By A. J. Stone. (Bull. XIII, pp. 31-62, 5 text figures.)

Note on the Wood Bison. By J. A. Allen. (Bull. XIII, pp. 63-67.)

List of Bats Collected by Mr. H. H. Smith in the Santa Marta Region of Colombia, with Descriptions of New Species. By J. A. Allen. (Bull. XIII, pp. 87-94.)

List of Birds Collected in the District of Santa Marta, Colombia, by Mr. Herbert H. Smith. By J. A. Allen. (Bull. XIII, pp. 117-184.)

Note on the Generic Names *Didelphis* and *Philander*. By J. A. Allen. (Bull. XIII, pp. 185-190.)

Descriptions of New American Marsupials. By J. A. Allen. (Bull. XIII, pp. 191-199.)

On Mammals Collected in Southeastern Peru by Mr. H. H. Keays, with Descriptions of New Species. By J. A. Allen. (Bull. XIII, pp. 219-227.)

A Study of the Genus *Sturnella*. By Frank M. Chapman. (Bull. XIII, pp. 297-320, 8 text figures.)

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

A Cranial Variation in *Macropus bennetti*. By B. Arthur Bensley. (Bull. XIII, pp. 109, 110, 1 text figure.)

A New Species of Pleistocene Horse from the Staked Plains of Texas. By J. W. Gidley. (Bull. XIII, pp. 111-116, 5 text figures.)

Phylogeny of the Rhinoceroses of Europe. (Rhinoceros Contribution No. 5.) By Henry Fairfield Osborn. (Bull. XIII, pp. 229-267, 16 text figures.)

*Oxyæna* and *Patriofelis* Restudied as Terrestrial Creodonts. By Henry Fairfield Osborn. (Bull. XIII, pp. 269-279, pls. xviii and xix, 4 text figures.)

## DEPARTMENT OF ANTHROPOLOGY.

Symbolism of the Arapaho Indians. By Alfred L. Kroeber. (Bull. XIII, pp. 69-86, 138 text figures.)

A Shell Gorget from Huasteca, Mexico. By Marshall H. Saville. (Bull. XIII, pp. 99-103, 3 text figures.)

An Onyx Jar from Mexico, in Process of Manufacture. By M. H. Saville. (Bull. XIII, pp. 105-107, pl. vii.)

Cruciform Structures near Mitla. By Marshall H. Saville. (Bull. XIII, pp. 201-218, pls. viii-xvii, 8 text figures.)

A Bilateral Division of the Parietal Bone in a Chimpanzee, with a Special Reference to the Oblique Sutures in the Parietal. By Aleš Hrdlička. (Bull. XIII, pp. 281-295, 6 text figures.)

The Thompson Indians of British Columbia. By James Teit. Edited by Franz Boas. (Mem. II, pp. 163-392, pls. xiv-xx, 198 text figures.) Completed and published April, 1900.



Basketry Designs of the Salish Indians. By Livingston Farrand. (Mem. II, pp. 393-399, pll. xxi-xxiii, 15 text figures.)

Archæology of the Thompson River Region. By Harlan I. Smith. (Mem. II, pp. 401-442, pll. xxiv-xxvi, 51 text figures.)

Symbolism of the Huichol Indians. By Carl Lumholtz. (Mem. III, pp. 1-228, pll. i-iv, 291 text figures.) Completed and published May, 1900.

Traditions of the Chilcotin Indians. By Livingston Farrand. (Mem. IV, pp. 1-54.)

Cairns of British Columbia and Washington. By Harlan I. Smith and Gerard Fowke. (Mem. IV, pp. 55-75, pll. i-v.)

Ethnographical Album of the North Pacific Coasts of America and Asia. (Part I, pp. 1-5, pll. i-xxviii.)

DEPARTMENT OF ENTOMOLOGY.

A Monograph of the Sesiidæ of America, North of Mexico. By William Beutenmüller. (Mem. I, pp. 218-352, pll. xxix-xxxvi, 24 text figures.)

The American Museum Journal. (Vol. I, Nos. 1-5.)

I desire to here record my hearty appreciation of the kind coöperation given by the city government in furthering the interests of the Museum as regards its maintenance and its equipment for the purposes of exhibition.

I extend an expression of my sincere thanks to the Trustees for their assistance in administering the affairs of the Museum and to those persons who have aided the Museum by gifts of money or specimens.

I also desire to express on behalf of my colleagues and myself our appreciation of the able and loyal service rendered by the heads of departments and their assistants in the various activities of the Museum.

MORRIS K. JESUP,

*President.*

ADDENDA.—Since the preparation of this report the Trustees have formally received from Mr. J. Pierpont Morgan, on behalf of the Museum, the Bement Collection of Minerals and the Tiffany Collection of Gems, the largest individual gift the Museum has ever received. A description of these collections will be given in the next Annual Report.

THE AMERICAN MUSEUM OF NATURAL HISTORY

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MAINTENANCE.

RECEIPTS.

Department of Parks.....	\$120,000 00
Cash deficit Dec. 31, 1900.....	9,110 18

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\$129,110 18

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Examined                    } ANSON W. HARD,    } *Auditing*  
and approved, } GEORGE G. HAVEN, }    *Committee.*

Correct.—E. L. MASSETT, *Auditor.*

*MAINTENANCE.*

DISBURSEMENTS.

Expressage .....	\$257 19
Printing .....	108 20
Postage.....	314 00
Coal.....	7,970 96
Labels.....	1,566 46
Stationery.....	891 16
Interest on Debit Balances.....	9 37
Poison.....	123 50
Annual Report.....	191 45
Supplies.....	5,737 32
Salaries .....	52,411 22
Fixtures.....	1,464 80
Labor.....	54,483 88
General Expenses.....	3,239 41
Repairs.....	341 26
	<hr/>
	\$129,110 18
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CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *January 22, 1901.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

Cash on hand Jan. 1, 1900, including subscriptions for Pampæan Collection of Fossil Mammals (\$8,000) paid in and unexpended.....		\$9,681 29
Special Loan.....		10,000 00
State Superintendent of Public Instruction.....		12,000 00
Annual Members.....		8,840 00
Life Members:		
C. R. Agnew.....	\$100 00	
Geo. B. Agnew.....	100 00	
Thomas Baring.....	100 00	
J. O. Bartholomew.....	100 00	
Bertrand F. Bell.....	100 00	
Wm. Brewster.....	100 00	
Joseph Bushnell.....	100 00	
Hugh J. Chisholm.....	100 00	
Lester B. Churchill.....	100 00	
Frederic Cromwell.....	100 00	
Eugene Delano.....	100 00	
Anthony Dey.....	100 00	
Miss Ethel DuBois.....	100 00	
Wm. A. DuBois.....	100 00	
Horace Gray.....	100 00	
E. H. Harriman.....	100 00	
George B. Hopkins.....	100 00	
Samuel N. Hoyt.....	100 00	
Archer M. Huntington.....	100 00	
Frank D. Hurtt.....	100 00	
Dr. Walter E. James.....	100 00	
James W. Knauth.....	100 00	
John B. Lawrence.....	100 00	
John R. Livermore.....	100 00	
Francis E. Markoe.....	100 00	
Mrs. E. C. Moore.....	100 00	
Wm. Trotter.....	100 00	
Miss H. Olive Trowbridge.....	100 00	
Mrs. Charles Boughton Wood.....	100 00	
Fellow: John L. Cadwalader.....		2,900 00
Patron: Percy R. Pyne.....		500 00
Patron: Percy R. Pyne.....		1,000 00
Admission Fees.....		1,381 50
Collecting Permits.....		39 00
Sale of Guides.....		15 00
"    " Publications.....		189 63
Interest on Invested Funds, including "John B. Trevor Fund" and "Josiah M. Fiske Fund".....		19,035 00
B. T. B. & F. E. Hyde, Jr., for Hyde Explorations.....		2,304 64
Frederick E. Hyde, Sr.....		700 00
Henry F. Osborn.....		2,000 00
Archibald Rogers.....		100 00
Miss Matilda W. Bruce.....		200 00
Joseph F. Loubat, for Mexican Expedition.....		4,000 00
Henry E. Pickering, for Local Archaeological Research.....		50 00
Sale of Casts.....		70 00
Freight Rebate.....		27 93
Morris K. Jesup for Jesup North Pacific Expedition.....		19,907 10
C. P. Huntington, { For North		2,000 00
Henry Villard, { American Indian		1,000 00
Mrs. Morris K. Jesup, { Research. }		1,600 00
James M. Constable, for Mexican Expedition.....		500 00
		\$100,041 09
Examined { ANSON W. HARD, { Auditing Committee.		
and approved. { GEORGE G. HAVEN, {		
Correct.—E. L. MASSETT, Auditor.		

ENDOWMENT.

DISBURSEMENTS.

Postage.....	\$67	56
Printing.....	275	90
Stationery.....	258	60
General Expenses.....	1,630	13
Hyde Explorations.....	2,304	64
Bulletin (publication of).....	11,141	73
Jesup North Pacific Publication.....	170	50
Annual Report.....	579	50
Labels.....	652	72
Fixtures.....	412	18
American Museum Journal.....	1,516	40
Pan American Exposition Exhibit.....	583	38
Transfer to Permanent Endowment Fund for purchase of bonds..	544	47
Minerals.....	732	81
Geology.....	126	83
Invertebrate Zoölogy.....	46	95
Vertebrate Zoölogy.....	2,677	35
Mammal Groups.....	196	69
Bird Groups.....	74	45
Skeletons.....	650	00
Vertebrate Palæontology.....	7,413	28
Anthropology.....	4,637	23
Ethnic Groups.....	1,126	37
Ethnology.....	317	65
Library.....	1,401	89
Department of Public Instruction.....	9,740	70
Jesup North Pacific Expedition.....	19,907	10
North American Indian Research.....	4,604	92
Mexican Expedition.....	5,345	99
Lumholtz Expedition.....	305	00
Peruvian Expedition.....	2,285	58
Jesup Siberian Expedition.....	1,109	00
New York State Archæological Explorations.....	470	00
Belmar Collection of Mexican Antiquities.....	500	00
Constable Northwest Territory Expedition.....	114	33
Receptions.....	726	15
Cash on hand, December 31, 1900.....	15,384	11
	<u>\$100,041</u>	<u>09</u>

Cash on hand in Endowment Account.....	\$15,384	11
Cash deficit in Maintenance Account.....	9,110	18
Cash on hand December 31, 1900.....	<u>\$6,273</u>	<u>93</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *January 22, 1901*

## CONTRIBUTIONS

### NOT NOTED IN THE TREASURER'S REPORT.

Mrs. Josiah M. Fiske.....	\$10,000 00
Mr. George A. Hearn.....	1,000 00

Deposited in the Permanent Endowment Fund for investment.

### JOHN B. TREVOR FUND.

PRINCIPAL \$10,000.

Invested in railroad bonds: Income.....	\$450 00
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### JOSIAH M. FISKE FUND.

PRINCIPAL \$10,000.

Invested in railroad bonds: Income.....	\$420 00
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Income to be expended in the discretion of the Trustees.

## CHAPTER 185.

AN ACT to provide for additions to, and further improvements and equipment in the buildings occupied by the American Museum of Natural History in the Central Park of the city of New York.

Accepted by the city.

Became a law March 22, 1900, with the approval of the Governor. Passed, three-fifths being present.

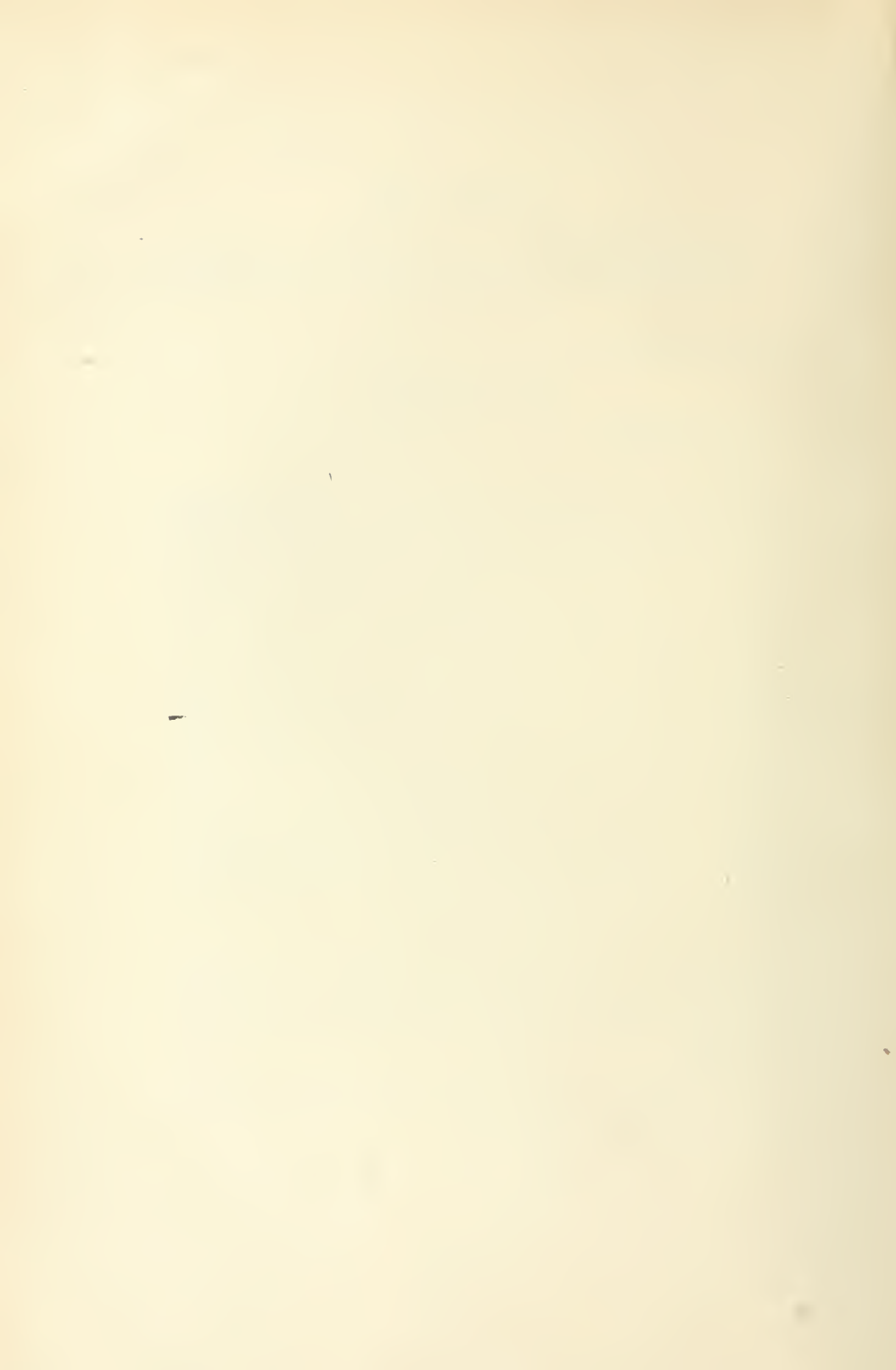
*The People of the State of New York, represented in Senate and Assembly, do enact as follows :*

SECTION 1. The department of parks in the city of New York, when the board of estimate and apportionment in the exercise of its discretion has consented and concurred, is hereby authorized to complete, equip and furnish the east and west wings and erect elevators for the same ; provide additional cases where required in the old buildings, repair and alter the halls of the same structure, and to erect a boiler-house, and equip the same with an increased heating and lighting plant required for the additions made to the building in the city of New York, borough of Manhattan, now occupied by and in possession of the American Museum of Natural History. The trustees of the said museum shall select the architects to prepare, under their direction, the plans, and to superintend, under the direction of the department of parks, the construction of the said addition, equipment and alterations. Said plans, when completed, shall be submitted by said trustees to the said department for its approval, and may include such alterations, improvements and repairs to said structure as the said department and the said trustees of the said museum may agree are proper and necessary. The said department shall provide for the compensation of the architects out of the fund hereby provided for the said structure, equipment and alterations. The said equipment shall include all cases, fittings and other apparatus required for the work herein described.

§ 2. For the purpose of providing means for the carrying into effect the provisions of this act, it shall be the duty of the comptroller, upon being thereunto authorized by the board of estimate and apportionment, to issue and sell corporate stock of the city of New York, in the manner now provided by law, to an amount not exceeding in the aggregate the sum of three hundred and fifty thousand dollars.

§ 3. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

§ 4. This act shall take effect immediately.





ADDRESSES DELIVERED  
AT THE  
OPENING OF THE AUDITORIUM  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,

Seventy-seventh Street and Central Park West, New York City,

*Wednesday, October 30, 1900.*

*Opening Address of Morris K. Jesup, President of the Museum.*

"MEMBERS OF THE AMERICAN MUSEUM OF NATURAL HISTORY, LADIES AND GENTLEMEN: I am commissioned by the Board of Trustees to give you a hearty welcome to this new Auditorium, which has just been completed. It is intended that these exercises shall be brief, in order that you may have an opportunity to visit the adjoining halls of exhibition

"Before the Trustees can act with reference to this important addition to the Museum Building, it becomes necessary that a formal presentation be made to the Museum authorities by the proper municipal authorities, and therefore, without further ceremony, I introduce the Hon. George C. Clausen, President of the Department of Parks of the City of New York, and Commissioner of the Boroughs of Manhattan and Richmond."

Address of the Honorable GEORGE C. CLAUSEN, President of the Department of Parks, presenting the building on behalf of the City to the Trustees of the American Museum of Natural History:

*Mr. President, Ladies and Gentlemen:*

In a little more than thirty years the Museum of Natural History, in the City of New York, has grown from a very meagre and poorly housed nucleus to the grand and inspiring proportions which you now look upon—proportions of such majesty and beauty as to excite the admiration not only of scientists and art lovers everywhere, but also of all men of taste and refinement. The history of the institution is in many ways unique and in every way interesting. It was in the year 1869 that a little band of public-spirited men, headed by John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, Wm. A. Haines, Theodore Roosevelt, Howard Potter, Wm. T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles A. Dana, Joseph H. Choate and

Henry Parish, was created by the Legislature a body corporate to be known as the American Museum of Natural History, and to be located in the City of New York, for the purpose of establishing and maintaining a museum and library, to encourage and develop the study of natural science, to advance the general knowledge of kindred subjects and to furnish popular instruction in them.

At this time the exhibits of the Museum were tolerated in a few cramped and unsightly rooms of the old Arsenal on the Fifth Avenue side of the Park. To-day many of the exhibits of the institution are known to men of scientific research in every civilized country, and it is nowhere disputed that the Museum buildings themselves are admirably fitted for the display of the priceless treasures which they contain. These results have been brought about by a singularly original combination of partnership, which, under sanction of the law, has been entered into by the citizens of New York in their corporate capacity and the President and Trustees of the Museum. Under this exceedingly felicitous arrangement, it is mutually agreed that the City shall pay for the erection of the buildings and for their maintenance, while the Trustees have taken upon themselves the responsibility of providing the exhibits, the library, the lectures and other means of instruction and mental recreation. This arrangement is perpetual, irrevocably binding upon both parties. It is expressly stipulated that the contract shall continue for all time. By it Manhattan Square is given over to the uses of the Museum. It is provided that suitable buildings shall be erected thereon at the cost of the City; that they shall be properly maintained and policed by the City; that the exhibits shall be supplied by the Association; and that the Museum, in its entirety, shall be under the sole control and management of the Trustees for the free use and benefit of all the people. Both parties to this agreement have faithfully lived up to the compact, which happily both have regarded as sacred. The Trustees, on the one hand, headed by their wise and far-seeing, high-minded and open-handed President, Morris K. Jesup, have made the people of the Western Metropolis in very truth "the heirs of all the ages" by spreading before them in most attractive form evidences of the development and progress of the earth and of man from the earliest time until the present day. The City, on its part, has kept faith by providing with lavish hand the money with which to erect and maintain these magnificent halls.

The first building cost \$700,000. Under the laws of 1877 an addition was provided for at a cost of \$800,000. Later on the east wing was completed at a cost of \$550,000, while under the laws of 1895 and 1896 two other additions were made, the one costing \$510,000 and the other \$500,000. In 1897 an additional half million was provided for the completion and equipment of these wings. The cost of all the buildings and their equipment, from first to last, has been in round numbers \$3,500,000, while the sum expended for maintenance up to the present day has been \$972,000. And, sir, as the representative here of the City Government, I think that I may fittingly congratulate the present administration, the administrations which have gone before it, the Trustees of the Museum, and all the people, upon the fact that in all these vast expenditures there has never been even a suspicion of party self-seeking or the slightest hint of the diversion of one dollar for a political or unworthy purpose! To the credit of the City it can be proudly said that all its representatives, during the thirty years of its contract with the Trustees, have with scrupulous fidelity lived up to its part of the bargain for common good.

The City has cheerfully and liberally provided the buildings, policed and maintained them, but never in the slightest degree has it attempted to interfere with the management of the Museum. Such management, the control of the exhibits, of the library, of the lectures, and of everything pertaining to them, has most properly been left entirely within the control of the very competent gentlemen who have been trained for such service. It is only by holding firmly

to this policy that our noble institution has progressed so marvelously in the past, and will continue to progress in the future.

In this spirit, Mr. Jesup, holding steadily to the views which I have expressed, and in obedience to the law, it is now my duty and very great pleasure to turn over to your competent custody, and the custody of your fellow Trustees, these new halls of the American Museum of Natural History.

*Address by Morris K. Jesup, President, accepting the Building on Behalf of the Trustees.*

“PRESIDENT CLAUSEN: On behalf of the Trustees of the American Museum of Natural History, I receive this beautiful edifice and acknowledge the kindly views which you have expressed. These, sir, are fully reciprocated, not only by myself, but by the Trustees, whom I have the honor to represent.

“You quite touched my heart, Mr. Clausen, when you spoke of the kindly interest that has always existed between the several departments of the City Government and this Museum. I want to say that during my twenty years administration as President there has not been one word of discord, or even of disagreement, between this institution and the city authorities. On the other hand, the kindest sympathy and coöperation have always existed.

“LADIES AND GENTLEMEN: There are three departments of this Museum,—the department of science, the department of exhibition, and the department of education. The first of these—science—provides the material which makes the others possible. Science indicates the direction that our exploring expeditions shall take; it determines what material shall be collected, and how this material may be exhibited to obtain profitable educational returns. How profitless is mere exhibition without instruction!

“We are met together to-night to consecrate this magnificent hall to the cause of education, and you will soon be addressed by those who are competent to speak on this subject.

“It would not be right for me to close my remarks without mentioning the architects who have planned, designed and constructed this hall. I refer to Messrs. Cady, Berg & See. These gentlemen have had in charge the construction of this Museum almost from the beginning, and you yourselves are the best judges of the way in which they have performed their duties.

“Mr. Clausen has made mention of what the city has given to this great enterprise, and it is proper, therefore, for me to mention what Trustees and friends have given. While it is impossible to make an accurate statement, I think I am justified in saying that the contributions of money and the cash value of the collections aggregate upwards of \$3,000,000. While Mr. Clausen has called attention to the generous amount contributed by the city toward the maintenance of this institution since its opening, namely, the

sum of \$900,000, you should know that even this large sum has not been sufficient to pay our running expenses. Nearly every year the Trustees have willingly, yes, cheerfully, contributed from \$15,000 to \$30,000 to make up an inevitable deficiency.

"I might continue and say many things about this Museum,—its past, its present and its future,—but I will not take up time.

"I will now ask the Hon. Bird S. Coler, the comptroller in charge of the finance department of the City, to say a few words."

Address by the Hon. BIRD S. COLER, Comptroller of the City of New York :

*Mr. President, Ladies and Gentlemen :*

It is a great pleasure and honor for me to be here this afternoon and to say a little something to you about the City of New York, and something, maybe, about an idea, or a scheme of education. The present City of New York is the result of the consolidation of ninety separate corporations. I will not worry you with the details of that consolidation, or with a few of our troubles up to the present time ; but, merely to show you the magnitude of our city in a comparative sense, I would say that we have a population of over 3,500,000 ; that the bonded debt of the City of New York is more than the bonded debt of all the States in the Union combined ; that half of that debt is self-sustaining through the earnings of our water department and our docks. Looking at our expenses, the combined expense of the City of New York, of bond and appropriation accounts, is more than five times that of the State of New York itself, is two-thirds of that of the States of the Union, and is one-seventh of that of the National Government itself. For educational purposes we are now expending in the neighborhood of \$20,000,000 a year ; that is, the cost of education for the greater city is more, by several millions of dollars, than the entire cost of running the old city of Brooklyn—a city of over a million people—in all its branches and for all purposes. So you can see the immense sum that is required for purely educational purposes. It is nineteen per cent. of your entire budget.

Now, it seems to me that the time has come when we have got to face the enormous increase in expenditures for educational purposes in an intelligent and fair and practical way. Maybe there is a legitimate reason why we should give every child in the City of New York a college education. Maybe some one may argue that it would be the best thing for the city to force every one to take a higher education. In the last few years that seems to have been brought to the front—the idea that the higher development must come through a system of schools that would lead up to every one getting a higher education. I think the idea is right to a large degree, but we must face it in a way that will not increase the cost to such an extent that it will make taxation in this city a tremendous burden. We have, as I have said, \$20,000,000 a year, or in that neighborhood ; that is, the bond appropriations and the appropriations for the schools themselves ; and it seems to me that we can work together upon an idea that will bring forth all there is in education, and upon a basis with which every one can be satisfied, both those who believe in higher education and those who believe in not expending quite so much money for the various purposes.

I believe it is a fact that nearly ninety per cent. of our children leave our schools before the age of fifteen years. A great many parents cannot afford to allow their children to remain in the schools beyond that time. It seems to me that we should have a definite system of education that, up to that age, would be practically complete as far as it went, but then, instead of allowing every one to force their children to go higher at the cost and expense of the city (because, as a general rule, those who can afford to leave their children in schools after

the age of fifteen can afford to pay something towards their maintenance), we should still have our high schools and our colleges, but we should allow only those to go up who show by their ability and their genius that it would pay the city to give them the higher education.

To-day our high schools and our College of the City of New York are crowded with children, the only purpose of whose parents is to keep them at education and to keep them from going into business until they get older,—children who have shown no particular ability for a higher education. I do not believe that they are entitled to it at the expense of the city; nevertheless I do believe that it is a paying investment for the city to have high schools and the College of the City of New York, and, if needs be, to purchase scholarships in the other great colleges; so that when a boy leaves the grammar school he can earn the right to enter the high school by a fair examination. This ought not to be made so hard that it would preclude boys who were serious and had an honest intent and wanted to educate themselves. The examination ought to be so graded that these boys would have the chance to work their way up to and through a college, even at the expense of the city. Then, when a boy or a young woman came out of one of those schools, they would be known as a man or a woman who had earned their education at the hands of the City of New York.

But what is to be done with the great mass, the ninety per cent. that have to leave at the age of fifteen? I believe the city owes more to them by far than it owes to the children who are kept in there, not because they show any ability, but merely because their parents wish to keep them in school at the cost of the city. I believe that the great ninety per cent. are entitled to an opportunity to acquire for themselves an education while they are at work, and while they are helping to support their families. The greatest part of education (I know it is so in my own case, with the little education that I have) is acquired after leaving school; and now, throughout the great City of New York, we are beginning to recognize the fact of supplemental education. To-day the Board of Estimate has before it a request for an appropriation of \$3,000,000 to complete the great public library at Forty-second Street and Fifth Avenue. That will be granted in a few days. Throughout the Borough of Brooklyn, in the last two years, we have established five separate free circulating libraries. This year we have made an appropriation that will allow the development of double that number. All through the City of New York we are trying to develop a policy of supplemental education.

That brings the question down right here to your own great enterprise and the enterprise of the Metropolitan Museum of Art; and it is a great pleasure for me to be here and to state to you that I believe that this Institution is one of the greatest starting points for a supplemental education in the City of New York. The development also throughout our city of the free lecture system, of which Professor Leipziger, who is here this afternoon, is the head, will do more good to our city than the system of allowing parents to force a higher education at the expense of the city. Let us give the great ninety per cent. a chance to get ahead and make something of themselves in the world.

As regards the appropriations for your Institution, I think this year you will get over \$130,000 for maintenance. I do not know how far that will go, but I think it will go a great deal farther than the last year's money went.

We are facing in the City of New York a great problem. The problem, to my mind, of the government of the United States itself, is the problem of city life and city government; and it is only by the development of the individual citizen, so that he has a better knowledge, a better education, and a better interest in public affairs, that we shall ever have a better permanent government; and I believe it is the duty of every intelligent person, man or woman, to do something for the great mass of our children that have to leave the schools before the age of fifteen.

I thank you for your attention.

*Remarks by President Jesup, introducing Dr. H. M. Leipsiger, Ph.D., Supervisor of Lectures of the Board of Education.*

"I expected to have the pleasure of welcoming here to-night Mr. Miles M. O'Brien, President of the Board of Education, but I received this telegram from him a few minutes ago :

"I regret exceedingly that unavoidable circumstances prevent me from tendering you in person my hearty congratulations on the opening of the new lecture hall, which adds a new and important link to the educational chain of our great city, and of which all our citizens may be proud."

"Fortunately we have another representative of the Board of Education, Prof. H. M. Leipsiger, whom I have the pleasure of introducing."

Address by Dr. HENRY M. LEIPZIGER, Ph.D., Supervisor of Lectures of the Board of Education :

*Mr. President, Ladies and Gentlemen :*

Twenty-five years ago, in the address made by Prof. Henry on the occasion of the laying of the corner stone of this noble Institution, which is gradually assuming its proper dimensions, he called attention to the spiritual side of the Museum, and in his address used these words : "How incomparably greater would the importance of this Museum be were there connected with it a professor, who, at stated periods of the year, would give courses of free lectures on the objects which it contains, who would expound the laws of the phenomena of nature, who would discourse on the changes the world has undergone during geological periods. What an effect an Agassiz would have, not only in enlightening the heads, but warming the hearts, of his audience !"

Less than a generation has passed since these words of the distinguished scientist were spoken, and his hope is nobly realized in this beautiful hall dedicated to the spread of the knowledge of science for the service of man.

This vast Museum and this lecture hall bear testimony to the belief of the American people, not alone in the value, but in the necessity of education, and their belief that the term should have the widest possible interpretation, that it should begin at the kindergarten, and include the university, the public library and the public museum, and it should know no limit as to age or sex. In the spirit of this belief, both private philanthropy and public munificence have joined in producing the transformation scene which we witness to-day, and which is but an earnest of what is yet to be.

In President Jesup's address of eight years ago he stated that this Museum offers to the "masses of the Empire City a home where they may find that recreation, entertainment and education which serves to elevate and ennoble their life and character." That it has fulfilled—and will fulfil in increasing measure—these purposes, no one can doubt who has observed the thousands who enter these halls, or the crowds who, during the past eight years, have attended the lectures that have been given. The influence of the Museum and the lectures in widening the mental horizon of the listener, who can measure ! Some, perhaps, are soothed and recreated, others are inspired and stimulated to reading and study.

"That stick has been round the world," exclaimed a man to Sydney Smith, as he held out to him a valued cane. "Dear me," was the reply, "and yet it is only a stick after all." To decrease the number of sticks in the world, to increase the number of men who can observe, can compare, classify and *think*, is the purpose of the teaching of science. To increase the number of those in a great city who shall take a delight in nature and its wonders, who shall find

wholesome recreation therein, and thus find an antidote against life's sorrows and a strengthener against temptation, all this is furthered by the spread of scientific knowledge. And the collections, amply classified as they may be, fail, unless from the lips of the living teacher comes the flow of eloquence that vivifies the dead objects and makes the distant near.

Do not the facts in this Museum's history amply prove that the lecture, as a medium of instruction, was never more appreciated? For years past have the lectures by Prof. Bickmore attracted the teachers of our city, the lectures in coöperation with Columbia University have attracted the student, and those given by the Board of Education have attracted the masses. For five years past, through the generosity of the Trustees of this Institution, on each Tuesday evening this hall has been one of the forty or more lecture halls where courses of lectures under the auspices of the Board of Education have been given. The total attendance at the Hall of the Museum has been over twenty thousand each year. Rarely has there been a vacant chair, and often was the hall filled long before the time fixed for the beginning of the lecture. The topics of the lectures included travel and natural science, and, as at all our centres, the discovery was made that instruction was much preferred to entertainment. Who can rightly determine the influence of a museum and courses of lectures such as given here.

From a quarryman, Hugh Miller became a geologist, and while attending a course of four lectures by Sir Humphrey Davy, the immortal Faraday caught the inspiration which determined his career.

But in a broader sense these lectures contribute to the culture of our citizens, and nowhere is that culture more needed than in a democracy and in a city so cosmopolitan as our own. As a means of true refinement nothing is so potent as a love of nature.

The story is told that a few years ago a French priest, far advanced in years, was met in the heart of the Rockies. Upon being asked why he, at his time of life, was so far from home unattended, he replied: "Six months ago I lay, as I thought, at death's door. One night I dreamt that I appeared before my Maker and he said to me: 'My child, how did you like the beautiful world I gave you to dwell in?' I could make no reply, for I, who had for fifty years preached a better world, had never examined this one at all! Awaking from my dream, I vowed that I would at once proceed to see and to admire some of his works, and so here I am, going round the world."

To the thousand of toilers in this city what an opportunity is afforded by the lectures to the people to get glimpses of the great world. How, by means of the picture thrown on the screen, are the words of the lecturer clarified and intensified. The eye and the ear are both appealed to, and the knowledge thus gotten remains.

Great as is the educational value of these lectures, they are justified from the recreative side. The character of our pleasure is an index of our culture and our civilization. A nation whose favorite pastime is the bull-fight is hardly on a plane with one that finds pleasure in the lyceum hall. So if we can make the pleasure of our people consist in the delights of art, in the beauties of literature, and in the pursuit of science, and gradually turn them away from so much that is lowering, are we not doing a real public service? Is not refinement, too, one of the ends for which we are aiming—not alone knowledge, but culture; not alone light, but sweetness; and if we can turn our youth from the street corner to the temple of nature, are we not helping to that end?

The course of lectures given in coöperation with the Board of Education affords proof of the union of forces for good that is constantly strengthening, and of all agencies that should be so united, those engaged in education should form the closest bond. The schools of the city, the museums of the city and the libraries of the city should be closely connected. The auditor at the lectures or the observer of the collections should find on the shelves of the public library the book that will give the history of the specimen or increase his knowledge of

the subject of the lecture. Signs are not wanting that this union is becoming constantly closer. The widening of opportunity as a result of this union is in line with the policy of the Board of Education under its present energetic President, Mr. Miles M. O'Brien. The schools of our city were never before put to such varied uses. Evening schools, lecture halls, play schools, reading rooms and libraries are now found in our school buildings, all having as their purpose the bringing of the truths of science and the lessons of history within the reach of the common man. And this beautiful lecture hall, amply lighted and properly ventilated, the just pride of our city, serves another purpose. By contrast, it calls attention to the inadequate accommodations provided in many other places where lectures are held, and will speed the day when all the school lecture halls of the city will be properly equipped.

Finally, the uses of the lecture hall emphasize the fact that education is "not a thing for youth only, nor is it a thing for the favored classes only, but it belongs to all and to all periods of life." In this hall, rich and poor alike are welcome to learn the great lessons that nature teaches and to get from a knowledge of science the key to real happiness.

Of the seventy-five millions who dwell in our land, but a limited number have been systematically educated. To give the masses hope and knowledge, to teach the truth that "nothing is too late till the tired heart shall cease to palpitate," to give larger visions and lofty ideals, to put men and women in touch with noble souls, to bring beauty into the humblest home—all this is the result that will be accomplished through museums and lectures. And may this good work go on till all our people shall possess the truth that shall make them free.

*Remarks by President Jesup, introducing the Hon. Charles R. Skinner, State Superintendent of Public Instruction.*

"By a very happy arrangement with the State Department of Public Instruction, the course of lectures which has been so felicitously given by Professor Bickmore has been under the control of the Department of Education at Albany, and I am very happy that we have with us this afternoon the Hon. Charles R. Skinner, Superintendent of the State Department of Public Instruction, and I have great pleasure in introducing him to you."

Address of the Hon. CHARLES R. SKINNER, State Superintendent of Public Instruction :

*Mr. President, Ladies and Gentlemen :*

Let me congratulate you, Mr. President, upon the completion of this monument to free education in our great metropolis. It attests the generosity of the City of New York and is a testimonial to your excellent administration, aided as you have been by other generous friends of education. The growth of educational interests during the past few years is one of the wonders of this receding century, and gives us hope for the century to come.

I shall speak particularly in reference to the relations which for sixteen years the State Department of Public Instruction has sustained to the educational department of this Institution. These relations have been exceedingly close and pleasant, and I believe profitable to many thousands of the masses of the people of the State.

In 1884 the first act was passed which placed the Department of Visual Instruction here under the State Department of Public Instruction. This



provided for a free course of lectures to the teachers of the City of New York, and extended that system to the then nine normal schools situated in different portions of the State. It was a modest beginning, but any one interested in educational progress could foresee the great development that was bound to come—that will always come when you strike the heart of the people with an educational force. In 1891 this system was extended to the teachers' institutes of the State. A teachers' institute is a gathering of teachers in each of the counties of the State. This enables the system to reach annually more than 20,000 teachers. The country teachers (if you please) and their thousands of friends are brought in sympathy with this system of instruction. So it extended until 1895—four years afterward—when it was again broadened by an act of the Legislature, so that the lectures given and views exhibited here are now extended to all the cities and villages of the State, thus placing it within the power of the superintendent of schools in these cities and villages to reach nearly nine-tenths of the people of the State.

You remember, years ago we heard something about "object lessons." It was a new departure in education. The evolution of education is almost a *revolution* now. Here in this hall, and wherever these lectures are repeated (and they are, like the public school system, free to all mankind), the world is brought to our feet, and we see before us the different exhibitions which make us acquainted with every section of the world. In 1837 the then Superintendent of Public Instruction, referring to this system, said: "The system is new, but undoubtedly it is destined to have an important part in future educational work." In 1834, when the system first became connected with the State, the total State expenditures for education were \$12,000,000. Last year the total expenditures were \$28,000,000. So the expenditures of the State for schools and education have kept pace with the growth of this Institution. Surely we can all believe in "expansion" of education.

Since the Museum became connected with the State Department, Doctor Bickmore has prepared two hundred (200) lectures, covering all phases of education,—travel, history, biography, science, etc.,—and these lectures have been repeated in every portion of the State. More than 20,000 different stereopticon views have been prepared and exhibited. We are familiar with the growth of this system through inquiries which reach our State Department, and which daily reach Doctor Bickmore. Inquiries come from every county in the State, from smaller schools that are not entitled to these privileges, begging that they be extended to them. From every State in the Union come requests from State superintendents of public instruction for advice as to how they may secure the advantages which we enjoy. From every nation in the world come inquiries of the same nature. I have been shown a very interesting letter of inquiry from India, where the very purpose which this instruction serves here was presented as an educational influence upon the people of that country.

Not long ago Doctor Bickmore took this system in all its phases to exhibit at Paris. I wish he could tell you the many expressions of approval and interest which that exhibition excited. It is safe to say, however, that his mission was successful. He brings home from Paris a gold medal for the educational system which has made this Museum famous. No wonder Doctor Bickmore is in favor of the "gold standard."

Those who originated the scheme of this Museum are entitled to the commendation of every friend of education—of every man who believes that an educated child is better than an ignorant one. It is through this system, exemplified as it has been by what has been done for free lectures in this great city, that it is possible to carry this work all through the cities and villages of this great State. How to properly educate the masses of the people is the great educational problem before us all to-day, Mr. President, and the more we contribute to the education of the masses of the people, the more we can send education into the homes of our pupils, the more we shall contribute to their happiness and to the uplifting of city, state, country and the world.

As an illustration of the extent to which this system may be pursued, let me quote the one city of Syracuse, where, under the rules and regulations, we gave them one stereopticon, a copy of every lecture, and a set of the stereopticon slides accompanying it. The Board of Education in that city has purchased eight stereopticons, and has spent more for views every year than the State gives. The lectures are free to all the people. In the city of Watertown the city hall, almost as large a room as this, has been placed at the disposal of the superintendent of schools for the very purpose of repeating the lectures which have been given and will be given here.

Thus let us extend the power of this great system of education. Morally and intellectually it is an uplifting force in every community. In this way, by encouraging the broadening of the system by legislative enactment, let us keep at work, Mr. President, until all the people of the State are given the advantage of this medium of happiness and education. Let us, in other words, have a perpetual campaign of education.

*Remarks of President Jesup, introducing the Right Rev. Henry C. Potter :*

“ Before inviting you to the treat which Professor Bickmore has in store for you, when you will see the wonderful power of our new equipment for throwing lantern pictures upon these great screens, I will ask our valued friend, Bishop Potter, to say just a few words.”

Address of the Right Reverend HENRY C. POTTER :

*Ladies and Gentlemen :*

There is an eminent propriety that somebody should say a few words who has no official connection with this undertaking. Their President, Mr. Clausen, has represented the Park Commissioners ; Mr. Coler has represented the City of New York on its financial side ; the President and Dr. Leipziger have represented this institution ; and Mr. Skinner has represented the great educational system which is one of the chief adornments of the Empire State ; but I confess I think you would agree with me that this occasion would be incomplete unless somebody represented the beneficiaries ; and I claim to be one of those—that large constituency, including, in one way or another, the millions of people that make up the City of New York, who are to derive, and have derived, the many and various benefits from the existence of the Museum of Natural History, in connection with the Metropolitan Museum of Art, of which we have heard something this afternoon.

I confess I followed with sympathy and admiration the line of remark in which Mr. Coler indulged in regard to the scheme of our popular education. I should like to go a step further and remind you of the fact, to which, I venture to say, every teacher in our public schools will bear witness, that a very large proportion of the boys and girls who are forced out of the public schools at the age of fifteen or thereabouts for the purpose of earning their own living, as well as the very considerable proportion of those who stay in the public schools, and discover for the next three or four years no particular aptitude in the direction of higher learning, discover it later in life.

Now, have we sufficiently recognized the relation of such a fact as this to these Museums of Natural History and of Art? With that later life, when school days are done, come, far oftener, I think, than most of us realize, two things, late awakening powers and curiosities and leisure.

What shall men and women who have done with school, but are hungry for knowledge, and conscious of idle hours and unemployed faculties, do with

them? Every new invention, every increased convenience, every clever substitute for the work of the hands, by the work of a machine or the product of a factory, gives multitudes of people more leisure hours, and with them, often I fear, idle monotony, but often also, I rejoice to believe, more disposition for other tasks and interests than the mere handicrafts of the shop or the household.

Last evening I spent a night in Ulster County under the roof of a friend, to whom I ventured to call attention to the interesting fact of the large decay of the old-fashioned handicrafts of women. I gave a few days from my own experience as illustrating the kind of hospitality, always kindly and generous, that one whose office is a very peripatetic one on one side of it so constantly experiences, and I described, among other things, the hospitable board of a good lady at which I had sat a little while before, on which, from the beginning to the end of the feast, there was not one single thing to be eaten which she had mixed with her own cunning, or knowledge, or cleverness. I inquired about the pressed tongue, the Boston brown bread, and preserves, as they came on in succession, and I learned that one had come from a shop, in a tin, another in a can, and another in a glass jar. I said to this lady: "Did it ever occur to you what is being lost out of our American life by the multiplication of inventions which are giving to us our food in prepared forms, and depriving the people who give it to us of the opportunity of preparing it for us?" "Ah, yes," she said, "but did it ever occur to *you* how much larger a leisure comes into the life of a woman who is thus released from the old tasks?" "Yes," I said, "I had thought of that. But what is she learning? What is she taught to do with her leisure?"

My friend, Dr. Leipziger, has reminded us of the privilege of the companionship of nature. But ask the people who live most in the environment of nature in its directest sense, how much they know about it? How much have they been trained to observe of a stone, or of a flower, or of a sky? And when they come into a realm of wider knowledge, how much has that higher culture, which it is the office of such an institution as this to give, been within their reach, or added to their knowledge?

I was standing in the Alhambra some years ago, listening with a party of tourists, English, American and other, to the description which the guide was giving us of the splendid hall in which we stood. He undertook, among other things, to translate some of the legends, which are in Arabic, on the walls, and which some of you will remember there. I confess I thought them extremely tame and pointless to be honored with such a place; but I received an electric shock when, after our guide had traced with his hand a sentence which ran along the wall in Arabic, saying: "That means 'Truth is good, and happy is he who pursues it,'" I heard behind me a voice saying, "That's a thundering lie!" I looked around, and there was a man in a fustian jacket, who, I found out afterwards, was a Scotch engineer on his way to Constantinople to take charge of a factory. He had been educated largely in London, in the British Museum, and he had, in connection with the University of London, mastered enough Arabic to relieve the ignorance of all the rest of us, and to silence that guide, I hope, forever. Now, then, stop a moment and realize what came into the horizon of that man when he got into Constantinople, incomparably the most beautiful vision as you come up the Sea of Marmora, I think in the world. Imagine him going about and being able to take layer after layer off of that old life and bring it into inspiring contact with his own educated intelligence; and reflect, ladies and gentlemen, that that is what this institution has brought within the possibility, not only of you and of me, but of the humblest artisan, mechanic, day laborer in this city!

If once the love of knowledge is kindled in him, he has within the worlds of these museums possibilities for enlarging the horizon of his knowledge which are not within the reach, so far as his own resources are concerned, of the wealthiest man on this continent.

In the days when we are emphasizing fallacies which undertake to persuade us of the alienation of class from class, nothing, I maintain, is sublimer in its highest aspect than the great educational function of such an institution as this, and the inspiring fact that, whatever has been done by public munificence, side by side, as we have heard here this afternoon, private munificence has arisen with it; that the gifts of the city have been, year after year, matched by the gifts of the individual; and, better still,—though it has not been spoken of here,—that all this is owing most of all, not to money, but to heart and brain. Whatever my friend, the President, has given out of his pocket (and I should not like to embarrass him by asking him how much it is—I have a strong suspicion), he has given a great deal more and better in the time that he has given, day after day, and year after year, all these twenty years, of a trained intellect, and of a vigilant oversight, in which service he has been helped by the coöperation of other intelligent and thoughtful minds, in whose services we have to-day an illustration of what has been doing in our public and private institutions of learning all over the United States. Believe me, ladies and gentlemen, it is this common service, this common sacrifice for the common well-being, which is to bind together in great movements for all that is best in the republic, the people of the whole land.

A few views of the Paris Exposition of 1899, as studied by the Department of Public Instruction, were then shown and explained by Prof. Albert S. Bickmore.

# LIST OF ACCESSIONS, 1900.

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Dodd, Mead & Co., New York City.....			1
Doubleday, Page & Co., New York City.....	1		
A. E. Douglass, New York City.....			118
Daniel Draper, New York City.....		10	
Charles Dunod, Paris, France.....		12	
Carl Eickemeyer, Yonkers, N. Y.....	2		
Miss Alice C. Fletcher, Washington, D. C.....	1		
A. S. Gatschet, Washington, D. C.....			1
Miss Laura P. Halsted, New York City.....	6		
Francis P. Harper, New York City.....			2
Hugh Hastings, Albany, N. Y.....	4		

	Volumes	Paper and Numbers	Pamphlets
C. H. Hitchcock, Hanover, N. H. . . . .			5
Dr. P. Hinneberg, Berlin, Germany. . . . .		1	
Hugh Fletcher, Halifax, N. S. . . . .			1
Aleš Hrdlička, New York City. . . . .	1		4
Morris K. Jesup, New York City. . . . .	32	49	25
Dr. Ernst Kalkowsky, Dresden, Germany. . . . .			1
F. D. Kilburn, Albany, N. Y. . . . .	11		
Moses King, New York City. . . . .	1		
Ernest Knauff, New York City. . . . .		2	
Miss Harriett L. Lagowitz, New York City. . . . .	1		
Duke of Loubat, New York City. . . . .	90	13	1
H. H. Lyman, Albany, N. Y. . . . .	3		
George McLaughlin, Albany, N. Y. . . . .	5		
Macmillan & Co., New York City. . . . .		11	
Eagles Mere Chatauqua Assembly, Hughesville, N. Y. . . . .		1	1
William J. Morgan, Albany, N. Y. . . . .	5		
Hon. Levi P. Morton, New York City. . . . .			5
Munn & Co., New York City. . . . .	2		
M. de Nadaillac, Paris, France. . . . .			4
Prof. H. F. Osborn, New York City. . . . .	1		
Leo S. Osman, New York City. . . . .	1		
James E. Peabody, Cambridge, Mass. . . . .			1
Hon. Samuel Prince, New York City. . . . .	10		
Charles S. Prosser, Topeka, Kansas. . . . .			1
Prof. F. W. Putnam, Cambridge, Mass. . . . .		2	
H. W. Rowe, Bangor, Maine. . . . .	1		
M. H. Saville, New York City. . . . .			2
Major-General Daniel E. Sickles, New York City. . . . .	3		
Charles R. Skinner, Albany, N. Y. . . . .	4		
Siegel, Cooper Company, New York City . . . . .		4	
Baxter T. Smelzer, M.D., Albany, N. Y. . . . .	9		
Harlan I. Smith, New York City. . . . .			2
H. C. Southwick, Albany, N. Y. . . . .	13		7
Dr. V. Sterki, Columbus, Ohio. . . . .			1
Dr. Wm. C. Stubbs, New Orleans, La. . . . .	1		
Superintendent of Documents, Washington, D. C. . . . .	12	12	
“ “ “ through Hon. Wm. Astor Chanler. . . . .	31	15	5
William Trelease, St. Louis, Mo. . . . .			1
Sir William Turner, Edinburgh, Scotland. . . . .	1		1
General Egbert L. Viele, New York City. . . . .	1136	960	1833
“ “ “ “ “ “ “ . . . . . 2 Atlases			
“ “ “ “ “ “ “ . . . . . .66 Maps			
H. Newell Wardle, London, England. . . . .			1
Clement L. Webster, Charles City, Iowa. . . . .			2
Dr. H. Fresenius, Wiesbaden, Germany. . . . .			1
A. Pichlers Witwe & Sohn, Wien, Austria-Hungary. . . . .			1
Lewis Woolman, Philadelphia, Pa. . . . .	1		
Albert Woldert, M. D., Philadelphia, Pa. . . . .			1
William A. Woodward, New York City. . . . .			152
Board of Civil Service Examiners, Ottawa, Canada. . . . .	1		
Canadian Irrigation Survey. . . . . 15 Maps			
Central Experiment Farm, Ottawa, Canada. . . . .	1		1

	Volumes	Parts and Numbers	Pamphlets
Department of Marine and Fisheries, Ottawa, Canada.....	3		
Department of Inland Revenue, Ottawa, Canada.....	1		
Department of Parliamentary Papers, Canada.....	20	4	1
Department of Railways and Canals, Ottawa, Canada.....	1		
Department of Secretary of State, Ottawa, Canada.....	3		
Department of Trade and Commerce, Ottawa, Canada.....	6	1	2
Government Printing Bureau, Ottawa, Canada.....	2		
Ontario Department of Agriculture, Toronto, Canada.....	10	4	3
Ontario Agricultural College and Experiment Farm, Toronto, Canada.....		1	
Ottawa Literary and Scientific Society, Ottawa, Canada.....			1
Minister of Finance, Ottawa, Canada.....	3		
Minister of Justice, Ottawa, Canada.....	1		
Raoul Renault, Quebec, Canada.....		4	
Royal Society of Canada, Ottawa.....	1		
San Francisco Board of Park Commissioners, California.....	1		
Colorado State Agricultural College, Fort Collins.....	2		
Colorado State Historical and Natural History Society, Denver.....	3		1
Hartford Steam Boiler Inspection and Insurance Co., Conn.....		4	
Florida Agricultural Experiment Station, Jacksonville.....		6	
Board of State Charities of Indiana, Indianapolis.....	2		3
Indiana Department of Geology and Natural Resources, Indianapolis.....	1		
Indiana State Library, Indianapolis.....	20		
Iowa Board R. R. Commissioners, Des Moines.....	1		
Chicago Entomological Society, Illinois.....		1	
Newberry Library, Chicago, Illinois.....	1		
Psychic Research Co., Chicago, Illinois.....	1	2	
The Library Bulletin Co., Springfield, Illinois.....		1	
University of Illinois, Urbana.....			2
University of Maine, Augusta.....	1		
Maryland Agricultural College, College Park.....		3	
Boston Scientific Society, Massachusetts.....			1
Inland Fisheries and Game, Boston, Mass.....	1		
Journal of American Folk-Lore, Boston, Mass.....		1	
Library Bulletin Co., Boston, Mass.....		1	
Massachusetts Horticultural Society, Boston, Mass.....	1		1
Museum of Fine Arts, Boston, Mass.....			1
City Library Association, Springfield, Mass.....		2	
Wellesley College, Wellesley, Mass.....	1		
Michigan Bureau of Labor, Lansing.....	1		
Minnesota School of Agriculture, St. Anthony's Park.....		1	
University of Minnesota Agricultural Experiment Station, St. Anthony's Park.....	1	2	
Webb Publishing Company, St. Anthony's Park, Minnesota.....		8	1
Washington University, St. Louis, Mo.....	2		
Montana Historical Society, Helena.....	2		1
University of Montana, Missoula.....			2
New Jersey Free Public Library, Newark.....		11	1
New Jersey State Board of Agriculture, Trenton.....	1		
Banking Department, Albany, New York.....	1		
Bureau of Statistics and Labor, State of New York, Albany.....	3	4	

	Volumes	Parts and Numbers	Pamphlets
General Electric Co., Schenectady, New York.....	1		
Grosvenor Free Public Library, Buffalo, N. Y.....	1	1	2
Hamilton College, Clinton, N. Y.....	1		
New York State Attorney-General, Albany.....	1		
New York State Board of Health, Albany.....	3	3	3
New York State Commissioner of Excise, Albany.....	1		
New York State Commission in Lunacy, Albany.....	10		
New York State Commissioner Fisheries, Game and Forests, Albany.....	1		
New York State Factory Inspectors, Albany.....	3		
New York Railroad Commissioners, Albany.....	2		
New York State Treasurer, Albany.....	4		
New York Agricultural Experiment Station, Geneva, N. Y.....		12	1
Lake Mohonk Conference, N. Y.....	1		
Pan-American Exposition, Buffalo, N. Y..... 21 Photographs			2
Acetylene Journal Publishing Co., New York City.....		1	
American Art Galleries, New York City.....	1		
American Society for Prevention Cruelty to Animals, N. Y. City.		26	
American Water Color Society, New York City.....			1
Automobile Club, New York City.....		7	
Cooper Union, New York City.....			1
Department of Parks, New York City.....	1		
New York City Charity Organization, New York City.....		43	
National Academy of Design, New York City.....			1
New York Central Railroad, New York City.....	1		
New York Entomological Society, New York City.....	1		
New York Post-Graduate Medical School, New York City.....		12	1
New York Press Company, Limited, New York City.....	1		
New York Scientific Alliance, New York City.....	1	3	
New York University, New York City.....			1
New York Zoölogical Society, New York City.....	1		
Press Biographical Company, New York City.....			1
Roosevelt Hospital, New York City.....	1		
Salmagundi Club, New York City.....	1		
Teachers' College, New York City.....	1		
U. S. Weather Bureau, New York City.....		295	
The Mineral Collector Company, New York City.....		1	
The Art Interchange Company, New York City.....		1	
Cincinnati Museum Association, Ohio.....	1		
Ohio State Academy of Science, Sandusky.....			1
American Academy of Political and Social Science, Phila., Pa..		7	1
Fairmount Park Art Association, Philadelphia, Pa.....	3		
Philadelphia City Trusts, Pennsylvania.....	1		
Carnegie Museum, Pittsburg, Pa.....	2	1	
Rhode Island State Board of Agriculture, Providence.....	1		
Hampton Normal and Agricultural Institute, Virginia.....	1		
University of Virginia, Charlottesville.....	1		
Valentine Museum, Richmond, Va.....	1		
Virginia Agricultural and Mechanical College, Blacksburg.....		2	
Middlebury College, Vermont.....	1		
National Geographic Society, Washington, D. C.....		4	



	Volumes	Parts and Numbers	Pamphlets
Deutsche Gesellschaft für Natur-Völkerkunde Ostasiens, Tōkyō, Japan, Asia.....		1	
Tōkyō Geographical Society, Tōkyō, Japan, Asia.....		5	
Botanical Institute, Tōkyō, Japan, Asia.....			2
Royal Anthropological Society, Sydney, Australia.....		6	
Akademija Umiejtności, Krakau (Galicia), Austria-Hungary...	1		
Museum Francisco Carolinum in Linz, Austria-Hungary.....	1	1	
Société de Médecine Scientifique et d'Hygiène, Kharkow, Austria-Hungary.....	1	1	
Wiener Thierschutz-Verein, Wien, Austria-Hungary.....		9	
Verein für Natur-und Heilkunde zu Presburg, Austria-Hungary.	1		
Société des Ingénieurs d'Industrie, etc., Hainaut, Liège, Belgium		1	
Museo de Histoire Naturel de Valparaiso, Chili.....		3	
Kongelige Danske geografiske Selskab, Copenhagen, Denmark.	2	2	
Monthly Arabic Journal of Science, Literature and Art, Cairo, Egypt.....			10
Institut Egyptien, Cairo, Egypt.....	1		
Manchester Institute of Arts and Sciences, England.....	1		
Commission d'Antiquities du Département de la Cote-D'or, Dijon, France.....	1	1	
Société d'Agriculture, Science, Arts et Commerce du Département de la Charente, Angoulême.....	2	4	
Société D'Horticulture de Picardie, Amiens, France.....		2	
Société D'Emulation De L'ain, Bourg, France.....		2	
Société Des Sciences Médicales de Gannat, Commentry, France.		12	
Société d'Études Scientifiques d'Angers, France.....	1		
Société Géologique du Nord, Lille, France.....	1		
Société des Ingénieurs d'Industrie et des Mines, de Hainaut, Paris.....	1	1	
Société d'Horticulture et de Botanique du Centre de la Normandie, Lisieux, France.....		8	
Société de Géographie de L'Est, Paris, France.....		2	
Société National D'Agriculture, Science et Arts d'Angers, France.....	1		
Club Cevenol, Paris, France.....		1	
Naturforschende Gesellschaft in Bamberg, Germany.....	1		
Labatorium et Museum et Clinicum, Berlin, Germany.....		1	
Zoologische Sammlung zu Berlin.....		1	1
Schlesische Gesellschaft für Vaterländische Cultur, Breslau, Germany.....	3		
Gesellschaft "Isis," Dresden, Germany.....			1
Naturforschende Gesellschaft zu Freiburg, Germany.....		1	
Benno Konegen Verlag, Leipzig, Germany.....		1	
Geographische Gesellschaft und der Naturhistorisches Museum in Lübeck, Germany.....		1	
Commerce Special de la Greece avec les Pays Étrangers, Athènes, Greece.....		2	
Ministère des Finances, Athènes, Greece.....		2	
Department of Land Records and Agriculture, Bombay, India..		1	
Agricultural and Horticultural Society of India, Calcutta.....			3
Botanical Survey of India, Calcutta.....			1
Government of India, Calcutta, India.....	10	65	33

	Volumes	Parts and Numbers	Pamphlets
Bengal Chamber of Commerce, Calcutta, India.....	2		
Belfast Natural History and Philosophical Society, Ireland.....	2		
Agricultural Statistics of Ireland, Dublin.....			1
Direccion General de Estadística, Mexico.....	4		
Instituto Medico Nacional, Mexico.....		10	
Instituto Científico Literario, Toluca, Mexico.....		2	
Instruccion Publica Mexicana, Mexico.....		14	
Public Museum, Wanganni, New Zealand.....			1
Register-General's Office, Wellington, New Zealand.....	1		
Typographical Society (National Interest), St. Petersburg, Russia.....		3	
Austin Publishing Co., Honolulu, Sandwich Islands.....		3	
Bernice Pauahi Bishop Museum, Honolulu, Sandwich Islands..		3	
Hawaiian Minister of the Interior, Honolulu, Sandwich Islands..	6		1
Botanical Society of Edinburgh, Scotland.....		1	
Edinburgh University, Scotland.....	1		
Royal College of Physicians, Edinburgh, Scotland.....	1		
Direction Générale de Statistique, Buenos Ayres, South America..		2	
Sociedad Científica Argentina, Buenos Aires, South America...	2	12	
Museo de Historia Natural, Valparaiso, Chili, South America...			1
Sociedade Broteriana, Coimbra, South America.....	1		
Kongelige Akademie der Schonen Wissenschaften Gesellschaft und Alterthumsk, Stockholm, Sweden.....	1		
Geographisch-Ethnographische Gesellschaft in Zürich, Switz'l'd.	1		

Mr. FORDHAM MORRIS, New York City.

Portrait of Audubon, the naturalist, painted a few years before his death by his sons, John and Victor. At this time Audubon resided at Audubon Park, New York City.



	Volumes	Parts and Numbers	Pamphlets
<i>Massachusetts—Continued.</i>			
E. S. Morse, Salem.....			1
City Library Association, Springfield.....		5	
Worcester Society of Antiquity.....		1	
<i>Michigan. State Agricultural College Experiment Station,</i>			
Agricultural College.....		7	
State Board of Agriculture, Agricultural College.....	2		
Public Museum, Milwaukee, Michigan.....	1		
<i>Minnesota. Geological and Natural History Survey, St. Paul..</i>			
University Minnesota State Agricultural Experiment Station, Minneapolis.....	2		
<i>Missouri. University of the State, Columbia.....</i>			
Missouri Geological Survey, Jefferson City.....	1		
State Horticultural Society, Jefferson City.....	1		2
St. Louis Academy of Science.....		9	
Missouri Botanical Garden, St. Louis.....	1		
Nebraska. University, Lincoln.....	1	4	
New Hampshire. Historical Society, Concord.....	1		
<i>New Jersey. Free Public Library, Newark.....</i>			
Agricultural College Experiment Station, New Brunswick..		2	
Geological Survey, Trenton.....	2		
Historical Society, Paterson.....		2	
<i>New Mexico. University of New Mexico.....</i>			
Nevada. State University, Reno.....		3	
<i>New York. Department of Agriculture, Albany.....</i>			
John M. Clarke, Albany.....	3		1
New York State Department of Public Instruction, Albany.	2		
University of State, Albany.....	1		
State Museum, Albany.....	12	13	
F. H. Lattin, Albion.....	4		
Museum Publishing Co., Albion.....		10	
New York Agricultural Experiment Station, Geneva.....		1	
Cornell University, Ithaca.....		11	1
Oneida Historical Society, New York.....		10	
Academy of Science, Rochester, N. Y.....		1	
Geological Society of America, Rochester, N. Y.....		14	
Charles S. Prosser, Schenectady.....			1
Natural Science Association, New Brighton, Staten Island.		8	
R. Ellsworth Call, Brooklyn, N. Y.....	17	2	19
American Chemical Society, New York City.....	1		
American Geographical Society, New York City.....		7	
American Institute of Mining Engineers, New York City..	1	2	88
American Numismatic and Archaeological Society, New York City.....			1
Archaeological Institute of America, New York City.....		4	
Columbia University, New York City.....	2	4	
Lemcke and Buechner, New York City.....	1		
Mercantile Library, New York City.....	1		1
Metropolitan Museum of Art, New York City.....	2		
New York Academy of Medicine, New York City.....	1		
New York Academy of Sciences, New York City.....	1	3	2
New York Botanical Garden, New York City.....		3	

	Volumes	Parts and Numbers	Pamphlets
<i>New York—Continued.</i>			
New York Public Library, New York City.....	1		
New York Zoölogical Society, New York City.....		2	
Torrey Botanical Club, New York City.....	1		
Gustav E. Stechert, New York City.....	1		
North Carolina. N. C. Geological Survey, Raleigh.....	1		
E. Mitchell Scientific Society, Raleigh.....			1
Ohio. Cincinnati Society of Natural History.....			2
Lloyd Museum and Library, Cincinnati.....	1		
Agricultural Experiment Station, Columbus.....			27
Ohio State Archaeological and Historical Society, Columbus.....	10		2
“ “ Library, Columbus.....	37	10	10
“ “ University, Columbus.....			1
Dennison University, Granville.....	1		
Oberlin College.....			5
Pennsylvania. Academy of Natural Sciences, Philadelphia.....			1
American Academy of Arts and Sciences, Philadelphia.....			2
American Philosophical Society, Philadelphia.....			6
American Society for Extension of University Teaching, Philadelphia.....			1
Geographical Society of Philadelphia.....			1
Numismatic and Antiquarian Society, Philadelphia.....	1		
University of Pennsylvania, Philadelphia.....	1	2	
Wagner Free Institute of Science, Philadelphia.....	1		
Zoölogical Society of Philadelphia.....			1
Wyoming Historical and Geological Society, Wilkes-Barre.....	1		
Rhode Island. Brown University, Providence.....	3		
Natural History Society, Newport.....	1		
Redwood Library and Athenæum, Newport.....	1		
Vermont. University of Vermont and State Agricultural College, Burlington.....	3	11	2
Virginia. Dr. Edgar A. Mearns, Fort Meyer.....			8
Washington, D. C. Washington Academy of Science.....	2	9	5
Department of Agriculture.....	70	114	4
“ “ Interior.....	58		1
“ “ State.....	45	2	
Library of Congress.....		6	2
Smithsonian Institution.....	8		1
Treasury Department.....	3	1	
U. S. Civil Service Commissioner.....	1		
War Department.....	6		
F. A. Lucas.....	3		23
C. D. Walcott.....			4
Wisconsin. Academy of Sciences, Arts and Letters, Madison.....	1		
Geological and Natural History Survey, Madison.....	4		
Natural History Society, Milwaukee.....			3
Wyoming. University of Wyoming, Laramie.....			2
Canada. Le Naturaliste Canadien, Chicoutimi.....		12	
Fruit Growers Association, Grimsby.....	1		
Nova Scotian Institute of Natural Science, Halifax.....			1
Hamilton Association.....	1		
Entomological Society of Ontario, London.....	1		

	Volumes	Parts and Numbers	Pamphlets
<i>Canada—Continued.</i>			
Natural History Society of Montreal.....		3	
Numismatic and Antiquarian Society of Montreal.....		3	
Geological and Natural History Survey of Canada, Ottawa.	2	3	
Minister of Militia and Defence, Ottawa.....	1		
Ottawa Field Naturalists' Club.....		9	
New Brunswick Natural History Society, St. John.....	1		
Canadian Institute, Toronto.....	1	4	
University of Toronto, Ontario.....	3	2	
Manitoba Historical and Scientific Society, Winnipeg.....		2	1
Costa Rica. Museo Nacional, San José.....	4		
Mexico. Biblioteca de la Secretario di Fomento.....	6		
Direccion General de Estadistica.....	1		6
Instituto Geológico De Mexico.....		2	
Instruccion Publica Mexicana.....		2	
Museo Nacional de Mexico.....		24	
Sociedad Cientifica "Antonio Alzate," Mexico.....		12	
West Indies. Dodd's Botanical Station, Barbadoes.....			1
Real Accademia de Ciencias Medicas, Fisicias y Naturales d'l Habana.....		6	
Agricultural Society, Trinidad, Port-of-Spain.....		6	
South America. Florentino Ameghino, Buenos Aires.....			1
Prof. Carlos Berg, Buenos Aires.....			10
Instituto Geografico Argentino, Buenos Aires.....	1		
Museo Nacional de Buenos Aires.....		2	
Direccion General de Estadistica, La Plata, Brazil.....	1	2	
Museo de la Plata, Brazil.....	1		
Biblioteca Nacional de Rio de Janeiro.....	2		
Royal Agricultural and Commercial Society of British Guiana.....			1
Société Scientifique du Chili, Santiago.....		4	
La Universidad, Santiago, Chili.....	10		
Museum de Valparaiso, Chili.....		7	
Museo Nacional de Montevideo, Uruguay.....		3	
Republic Oriental del Uruguay, Montevideo.....	1		
Museu Paraense de Historia Natural e Ethnographia, Para.		2	
Africa. Académie d'Hippone-Société de Recherche Scientifique et d'Acclimatation, Bône.....	1		1
Academie d'Hippone-Société de Recherche Scientifique et d'Acclimatation, Bône.....	1		1 plate.
Académie d'Hippone-Société de Recherche Scientifique et d'Acclimatation.....		3	3 maps.
Colonial Secretary's Office, Cape Town.....	1		
Department of Agriculture, Cape Town.....		24	
Mountain Club, Cape Town.....		1	
South African Museum, Cape Town.....		5	
Société Archéologique de Constantine, Algeria.....	1		
Institut de Carthage, Tunis.....		4	
Institut Égyptien, Le Caire.....	1	5	
Asia. Cawnpore Experiment Farm, Allahabad, India.....			1
Royal Asiatic Society (Bombay Branch).....		1	
Asiatic Society of Bengal, Calcutta, India.....		17	



	Volumes	Parts and Numbers	Pamphlets
<i>Austria-Hungary—Continued.</i>			
Verein zur Verbreitung Naturwissenschaftlicher Kenntnisse, Vienna.....	1	1	
Jugoslavenske Akademija, Zagrebu.....		1	
Belgium. Dr. Alph. Dubois, Brussels.....	1		
Musée du Congo, “.....		5	
Société Royale Linn. d. Bruxelles.....		5	
“ “ Malacologique de Belgique, Brussels.....	2	3	
“ “ Géologique de Belgique, Liège.....		3	
“ “ Royale des Sciences, “.....	1		
“ “ Scientifique de Bruxelles, Louvain.....	3	2	
L'École Provinciale d'Industrie et des Mines du Hainaut, Morlanwels.....		1	
<i>Denmark. Les Instituts Météorologique de Norwège de Danemark et de Suede, Copenhagen.....</i>			
Kgl. Danske Landhusholdningsselskab, Copenhagen.....	3	12	1
Kongelige Dansk Videnskabernes Selskab, Copenhagen...	1	4	
France. Société d'Emulation, Abbeville.....	2		
Société Linneenne du Nord de la France, Amiens.....		10	
L'Académie de Vaucluse, Avignon.....	1	3	
Société d'Letres, Sciences et Arts de Bar-Le-Duc.....	7		
Société Académique d'Archæologie, Science et Arts du Département de L'Oise, Beauvais... ..	1		
Société d'Horticulture de la Gironde, Bordeaux. ....		4	
Société des Sciences Naturelles de Saône et Loire, Chalon-Sur-Saône.....		10	
Société d'Horticulture et Viticulture de la Côte-D'Or, Dijon.		5	
Union Géographique du Nord d. l. France, Douai.....		3	
Société Libre d'Agriculture, Sciences, Arts et Belles-Lettres du Département de l'Eure, Evreux.....		1	
Société des Sciences Naturelles et Archæologie de la Creuse, Guéret. ....	1		
L'Université, Laval.....	3		
Société d'Horticulture de Fontenay-Le-Comte.....		2	
“ “ de Médecine et de Pharmacie de la Haut-Vienne-Limoges.....		11	
“ “ Géologique du Nord, Lille, France.....	14		
“ “ Bretonne de Géographie (Lorient), France.....		6	
“ “ des Sciences de L'Ouest de la France.....		4	
Museum d'Histoire Naturelle De Lyon, Lyon.....	33		
Faculté des Sciences de Marseilles.....		6	
Museum d'Histoire Naturelle, Marseilles.....	1	8	
Société d'Agriculture, Ind. Science et Arts du Département de le Lozère, Mende.....	1		
Académie Royale des Sciences, Lettres et Arts de Modène, Modena.....	1		
Académie des Sciences et Lettres de Montpellier.....		3	
Société Cent. d'Agriculture et des Comices Agricoles du Département d' l'Hérault, Montpellier.....		14	1
Société d'Horticulture de L'Allier, Moulins.....		2	
Feuille des Jeunes Naturalistes, Paris.....		14	1
Ministère des Travaux Publics, Paris.....		11	



	Volumes	Paper and Numbers	Pamphlets
<i>France—Continued.</i>			
Bibliothèque du Museum d'Histoire Naturelle, Paris.....		2	
Société d'Anthropologie de Paris.....		1	
“ de Géographie, Paris.....		14	
“ Entomologique de France, Paris.....	1	4	
“ Géologique de France, Paris.....		16	
“ Zoologique de France, Paris.....	1		
Académie des Sciences, Ins. et Belles Lettres, Toulouse...		4	
Germany. Berliner Anthropologische Gesellschaft, Berlin.....		7	
Deutsche Geologische Gesellschaft, Berlin.....		4	1
Königliche Museum zu Berlin, Berlin.....		2	
R. Friedländer und Sohn, Berlin.....		22	
Dr. Hermann Fürst, Berlin.....		16	
Ges. Anthropologie, Ethnologie u. Urgeschichte, Berlin....		3	
Gesellschaft für Erdkunde, Berlin.....		18	
Naturhistorischer Ver. d. Preussischen Rheinlande, Berlin..	1	3	
Verein für Naturwissenschaften in Braunschweig.....	1		
Naturwissenschaftlicher Verein, Bremen.....	1		
Verein f. Schlesische Insectenkunde, Breslau.....		2	
Naturwissenschaftliche Gesellschaft Isis in Dresden.....		2	
Naturforschende Gesellschaft in Emden.....	1		
Naturwissenschaftlicher Verein Des Reg-Bez., Frankfurt..	2		
Senckenbergische Naturforschende Gesellschaft, Frankfurt..	2		
Société Fribourgeoise des Sciences Naturelles, Fribourg...	2		
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2 " " Fluorite from Cheshire Co., N. H.  
1 " " Fluorite from Put-in-Bay, Lake Erie.  
1 " " Fluorite from Cumberland, Eng.  
4 " " Barite from Cumberland, Eng.  
1 " " Barite from Pictou Co., N. S.  
1 " " Epidote from Ouray Co., Cal.  
1 " " Calamine from Joplin, Mo.  
1 " " Hematite from Santa Fé, N. M.  
1 " " Adularia from Switzerland.

- 1 Specimen of Obsidian from Lipari Island, Italy.
- 1 " " Opal from Waterville, Wash.
- 1 " " Celestite from Sicily.
- 1 " " Smithsonite from Greece.
- 1 " " Wurtzilite from Utah.
- 1 " " Molybdenite from Quebec, Canada.
- 1 " " Aragonite from Sicily.
- 1 " " Colemanite from San Bernardino Co., Cal.
- 1 " " Selenite from Sicily.
- 1 " " Zircon from Renfrew, Canada.
- 2 " " Quartz from Jefferson Co., Mont.
- 1 " " Meteorite (Siderolite) from Kiowa Co., Kansas.
- 15 " " Gold Nuggets from Klondike.
- 1 " " Garnet rock " Alaska.
- 13 " " Pseudomorphs from various localities.
- 1 Slab of Aragonite from Yavapai Co., Arizona.

CONCHOLOGICAL DEPARTMENT.

BY DONATION.

- DR. E. A. MEARN'S, U. S. A., Newport, R. I.
- 3 Specimens of *Chenobia testudinaria*, Linn., from back of Logger Head Turtle at Newport, R. I.
- SOLOMAN ROUS, Jersey City, N. J.
- 1 Specimen of *Unio Pinci*, Wright, from Florida.
- 2 " " *Pleurotoma Rousi*, Swb., from Port Elizabeth, Algoa Bay.
- 2 Specimen of *Anodonta fluviatilis* from near Newark, N. J.
- TIFFANY & CO., New York City.
- 2 Large *Unio ligamentinus*, Lam.

BY EXCHANGE.

- 1 Specimen of young *Cypræa capulserpentis*.
- 1 " " Shell Worm tube.
- 2 " " *Bulla aperta*.
- 17 " " *Fissurella*.
- 100 " " Chitons, all from Victoria.

INVERTEBRATE ZOÖLOGY.

BY DONATION.

- NEW YORK AQUARIUM.
- 1 Specimen of *Squilla*.
- 2 " " Bermuda Lobsters.
- BRUCE HORSFAL, New York City.
- 10 Specimens of *Apus* from the plains of central Texas.
- DR. GROSVENOR HUBBARD, New York City.
- A number of Cray-fish from near Rome, N. Y.

BY EXCHANGE.

- 1 Specimen of *Astrophyton*.
- 1 " " *Asterias* (rare).
- 2 " " Crabs.
- 8 " " Ophiureans, all from Victoria.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

MAMMALS.

BY DONATION.

- J. A. ALLEN, New York City.  
23 small mammals from Mexico and New Mexico.
- C. L. ANGELL, New York City.  
1 Angora Cat.
- E. K. AUSTEN, New York City.  
1 English Bulldog.
- WM. BEUTENMÜLLER, New York City.  
1 Bat.
- F. A. CANFIELD, Dover, N. J.  
1 Vicuña.
- MISS NANETTE COMSTOCK, New York City.  
1 Dog.
- JAMES M. CONSTABLE, New York City.  
1 Fox, 2 Lynxes, 1 young Moose, and 20 small mammals, from N. W. Territory, collected by A. J. Stone.
- MISS E. H. COTTEAL, New York City.  
Antelope horns, Sperm Whale's teeth, etc.
- DR. CARLTON C. CURTIS, New York City.  
1 Elk, 2 Pronghorn Antelopes.
- WARING L. DAWBORN, New York City.  
1 Weasel.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
15 Monkeys, 1 Lioness, 1 Leopard, 1 Ocelot, 1 Puma, 1 Wolf, 4 Foxes, 2 Seals, 1 Bear, 3 Raccoons, 1 Civet Cat, 1 Elk, 5 Deer, 1 Antelope, 1 Zebu, 6 Barbary Wild Sheep, 2 Nylghaus, 2 Houtias, 4 Opossums.—Total, 55 specimens, received in the flesh, from the Central Park Menagerie.
- MRS. JOHN M. DOW, New York City.  
44 small mammals, mostly from Arctic America.
- J. H. FLEMMING, Toronto, Canada.  
1 Mole, from New Westminster, B. C.
- CAPT. C. L. FURBUSH, M.D., U.S.A., Philippine Islands.  
4 skins of *Galeopithecus*.
- WINTHROP GARDINER, Gardiner's Island, N. Y.  
4 teeth of Sperm Whale.
- MRS. A. GOINE, New York City.  
1 Squirrel Monkey.
- A. C. GOULD, New York City.  
1 skin of "Sampson" Fox.
- W. W. GRANGER, New York City.  
1 Coyote, 1 skull of Horse.

- JOHN S. HENNESSEY, New York City.  
1 Squirrel.
- DR. A. HRDLIČKA, New York City.  
1 skull of Goat, 1 skull of Deer.
- MORRIS K. JESUP, New York City.  
1 Polar Bear, 1 Seal skeleton, 3 Walrus skulls, and 5 pairs of Walrus tusks.
- DR. B. LAUFER, Cologne, Germany.  
1 skin of *Tamias*, 2 Bear skulls, 1 skin of *Histiophoca fasciata*; all from Siberia.
- ARTHUR LEUTKE, New York City.  
1 Gray Squirrel.
- DR. EDGAR A. MEARNs, U.S.A., Fort Adams, Newport, R. I.  
1 skin of Grizzly Bear.
- FRANCIS C. NICHOLAS, New York City.  
1 *Capromys*, from Jamaica, W. I.
- N. Y. COLONIZATION SOCIETY, through R. G. S. McNeille.  
1 Hippopotamus skeleton.
- NEW YORK ZOÖLOGICAL SOCIETY.  
1 Orang, 2 Marmosetts, 2 Monkeys, 2 Slow Lemurs, 1 Tiger, 1 Ocelot, 6 Lynxes, 2 Black Leopards, 2 Yaguarandi Cats, 1 Wolf, 2 Foxes, 1 St. Bernard Dog, 1 Mink, 2 Bears, 1 Seal, 1 Houtia, 2 Antelopes, 1 Equine Deer, 3 Moose, 1 Elk Fawn, 2 Fallow Deer, 1 Mule Deer, 1 Muntjack, 1 Caribou, 1 Ant Bear.—Total, 41 specimens, received in the flesh.
- CAPT. WIRT ROBINSON, U.S.A., West Point, N. Y.  
1 Wood Rat.
- F. A. SCHNEIDER, New York City.  
1 Mole, 1 Shrew, 6 Deer Mice, from Long Island, N. Y.
- H. I. SMITH, New York City.  
1 skull of Bear.

## BY EXCHANGE.

52 specimens, mostly small mammals, including several rare species, from South America.

## BY PURCHASE.

3 Gorilla skeletons, 1 skeleton each of Orang, Gibbon, Potto and Ornithorhynchus, 3 Roosevelt Elk, 231 small mammals from South America and Mexico, and 100 from Northwest Territory and Alaska. Museum Expedition: 77 small mammals from Nova Scotia.

## BIRDS.

## BY DONATION.

- C. M. BARBER, Mesilla Park, New Mexico.  
2 Thick-billed Parrots.
- FRANK BOWLES, New York City.  
1 *Apteryx*, 1 *Stringops*, mounted.
- ALFRED BRAKE, New South Wales, Australia.  
1 Emu Egg.

- MRS. E. G. BRITTON, New York City.  
1 Blue-winged Yellow Warbler.
- F. F. BUDD, Pompton Plains, N. J.  
1 Great Blue Heron, in flesh.
- JOHN L. CADWALADER, New York City.  
1 hybrid Grouse, Red Grouse + Black Grouse.
- CARL CARTWELL, New York City.  
1 nest of Baltimore Oriole.
- MRS. C. W. CROSSMAN, Alexandria Bay, N. Y.  
1 Indigo Bird.
- MISS OCEE DEARBORN, New York City.  
1 mounted Mockingbird.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
1 Warbler, 1 Magpie, 1 Jay, 6 Parrots, 2 Cockatoos, 6 Macaws, 10  
Eagles, 5 Hawks, 4 Owls, 2 Vultures, 2 Pheasants, 1 Peahen, 1  
Curassow, 1 Gull, 1 Pelican, 13 Swans.—Total, 57 specimens,  
received in the flesh, from the Central Park Menagerie.
- WILLIAM DUTCHER, New York City.  
1 Brünnich's Murre, and 6 small Birds in flesh from Fire Island  
Light, N. Y.
- JOHN FANNIN, Victoria, B. C.  
2 Great Blue Herons.
- C. LINCOLN FREE, Easton, Pa.  
2 Wood Ibises, 1 young Sand Hill Crane.
- WINTHROP GARDINER, Gardiner's Island, N. Y.  
Small collection of Birds' Eggs.
- J. RALSTON GRANT, New York City.  
1 Hummingbird.
- SIDNEY KATZ, New York City.  
1 Maryland Yellowthroat.
- JOSEPH KISSLER, Nyack, N. Y.  
1 Hawk.
- PHILIP LATOURETTE, New York City.  
1 mounted albino Red-tailed Hawk.
- DR. B. LAUFER, Cologne, Germany.  
3 Grebe skins from Siberia.
- ROBERT B. LAWRENCE, New York City.  
5 mounted Birds, mostly rare albinos.
- H. C. A. LEUTLOFF, New York City.  
1 Black and White Warbler, in melanistic plumage.
- DR. M. R. LEVERSON, Brooklyn, N. Y.  
3 young European Cuckoos.
- HENRY MEYN, Jamaica, N. Y.  
1 four-legged Chicken, in alcohol.
- DR. J. E. MISSENGER, New York City.  
1 Parrot.
- MOTHER SUPERIOR S. A. B. V. M., New York City.  
1 nest of Baltimore Oriole.
- NEW YORK ZOÖLOGICAL SOCIETY.  
1 Pigeon, 1 Wood Ibis, 1 Swan, 1 Heron, 3 Flamingoes, 1 Demoiselle  
Crane.—Total, 8 specimens, received in the flesh.

- DR. H. V. OGDEN, Milwaukee, Wisconsin.  
1 Spoonbilled Sandpiper.
- IRA OTTENBERG, New York City.  
1 Albatross skull.
- W. H. PHELPS, New York City.  
300 Birds from Venezuela, containing several types of species.
- H. I. SMITH, New York City.  
2 Bird skulls.
- MRS. J. B. SNIFFEN, Greenwich, Conn.  
1 Baltimore Oriole.
- MRS. B. B. ST. JOHN, New York City.  
1 Paroquet.
- DAVID TOMLINSON, Yonkers, N. Y.  
1 Owl.
- JOHN TORRENCE, Brooklyn, N. Y.  
1 four-legged Chicken, in alcohol.
- ARTHUR T. WAYNE, Mount Pleasant, S. C.  
2 Marian's Wrens, 1 Acadian Sparrow, 1 Macgillivray's Sparrow.
- JOHN H. WINSER, New York City.  
1 South American Oriole.

## BY PURCHASE.

130 specimens from Peru, 370 from Venezuela, and 87 from various  
North American localities.  
Museum Expedition: 52 small Birds from Nova Scotia.

## FISHES AND REPTILES.

## BY DONATION.

- M. BRAVERMAN, Visalia, Cal.  
Prepared skull of *Crotalus lucifer*.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
1 Alligator Gar, 1 Sturgeon, 2 Cat-fish, 1 Tobacco-pipe Fish, 1 Eel, 1  
Cow-fish, 1 Trunk-fish, 1 Leopard-fish, 1 Moon-fish, 1 Parrot-  
fish.—Total, 11 specimens, received in the flesh from the New  
York Aquarium.
- H. GOLDSMITH, New York City.  
1 Lizard.
- DR. O. P. HAY, New York City.  
1 Turtle.
- H. V. LETKEMANN, New York City.  
1 Turtle.
- DR. JOSEPH Y. MANGOUN, New York City.  
1 Iguana, received in flesh.
- DR. EDGAR A. MEARNS, U.S.A., Fort Adams, Newport, R. I.  
1 Loggerhead Turtle, captured at Newport, R. I.
- NEW YORK ZOÖLOGICAL SOCIETY.  
3 Turtles, 1 Python, 1 Boa, received in the flesh.

- F. A. SCHNEIDER, New York City.  
 I skeleton of Horned Toad, from Aurora, Wyoming.
- DR. HUGO VON HAGEN, Lake Waccabuc, N. Y.  
 I Boa Constrictor, skin.
- E. ROBBINS WALKER, Lakewood, N. J.  
 I Iguana, received in flesh.

## DEPARTMENT OF ENTOMOLOGY.

### DONATIONS AND ADDITIONS.

- VERY REV. E. A. HOFFMAN, D.D., LL.D., New York.  
 1,000 Butterflies from North and South America and Asia.
- DR. EDWARD FLEMING, New York.  
 I Hornet's nest from Squantuck, Conn.
- E. CALMAN, New York.  
 Specimens of Larvæ infested with fungus, from New Zealand.
- HENRY VAN HOEVENBERG, Newman, N. Y.  
 Specimen of wood destroyed by Ants.
- E. D. HARRIS, New York.  
 4 *Cicindela albibrabis* from Maine, 4 *Cicindela purpurea* var. *limbalis* from Maine.
- MISS W. H. MAILLER, New York.  
 Specimens of Caterpillars infested with fungus, from New Zealand.
- DR. ROBERT M. FULLER, New York.  
 Nest of Trap-door Spider.
- WM. F. SACHS, Hoboken, New Jersey.  
 A collection of Butterflies and Moths from various parts of the world.

### BY PURCHASE.

- 60 North American Moths.  
 Through Museum Expeditions: 3,000 specimens from the Black Mountains, N. C.  
 500 specimens from the vicinity of New York.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

### BY DONATION.

- March 19. EUGENE S. MIXSON, Williston, Florida.  
 Fossil teeth and fragments of bones of Mastodon, Rhinoceros, etc., from Pliocene bone-bed near Williston.
- Oct. 19. A. QUINTAVALL, 34 Park Row, New York City.  
 Jaw and bones of Woodchuck, semi-fossil, found in a copper mine, Lincoln Co., Nevada.
- Dec. 11. PROF. H. F. OSBORN, 850 Madison Avenue, New York City.  
 Mammoth tooth from Krasnojarsk, Siberia.
- Dec. 19. D. W. PAYNE, Elmira, N. Y.  
 Part of mammoth tooth from river-gravels at Elmira, N. Y.



BY EXCHANGE.

- April 15. KÖNIGLICH NATURHIST. KABINET, Stuttgart, Germany,  
through Dr. Eberhard Fraas, Director.  
Casts of skull and various limb bones and plates of extinct  
Crocodilian Belodon.
- Oct. 31. BIOLOGICAL DEPARTMENT, UNIVERSITY OF  
TORONTO, Canada, through Prof. Ramsay Wright.  
Mounted skeleton of *Varanus niloticus*.

BY PURCHASE.

- March. Skulls of four Oligocene mammals from the White River Badlands of  
South Dakota.  
Skeleton of marine lizard *Clidastes* from Cretaceous chalk of Kansas.

THROUGH MUSEUM EXPEDITIONS.

- IN PATAGONIA, under Barnum Brown.  
Collection of Fossil Mammals, etc., from the Santa Cruz formation,  
including numerous skulls and incomplete skeletons.
- IN SOUTH DAKOTA, under Barnum Brown.  
Nearly complete skeleton of a Duck-billed Dinosaur, incomplete skele-  
ton of a Carnivorous Dinosaur, and other specimens from the  
Upper Cretaceous strata of western South Dakota.
- IN SOUTH DAKOTA, under G. R. Wieland.  
Parts of the skeletons of two herbivorous Dinosaurs from the Jurassic  
strata of South Dakota.
- IN WYOMING, under Walter Granger.  
One hundred and thirty-one specimens of Dinosaurs and Crocodiles  
from the Upper Jurassic strata of eastern Wyoming.
- IN TEXAS, under J. W. Gidley.  
Fifteen specimens of fossil mastodons, horses and camels from the  
Tertiary strata of the Staked Plains of Texas.

DEPARTMENT OF ANTHROPOLOGY.

BY DONATION.

- DUKE OF LOUBAT, Paris.  
Collection of pottery vessels and stone implements from Imbabura,  
Ecuador; fourteen gold ornaments from Colombia and Ecuador;  
a collection of various objects from Mexico, including ethnological  
and archaeological material; a copy of mural paintings from Teoti-  
huacan; models of antiquities; and a false Maya codex.
- ANONYMOUS.  
Clothing of an Eskimo of Smith Sound.
- LIEUT. G. T. EMMONS, Princeton, N. J.  
Harpoon foreshafts and rests, knife-handles and knives, etc., from  
Point Barrow, Alaska.
- JAMES DOUGLAS, Spuyten Duyvil, N. Y.  
A Mendocino basket in course of construction, and an Apache basket.
- MANDEVILLE MOWER, New York City.  
Various Indian specimens collected in 1830 and 1850, including turtle-  
shell rattle, moccasins, birch-bark baskets, beaded bag.

- MRS. JOHN CROSBY BROWN.  
2 native fish-hooks with lines, from Vancouver Island.
- PROFESSOR H. F. OSBORN, New York City.  
Platter made of whale vertebra, ornamented with copper, from Sitka, Alaska.
- PROFESSOR A. V. WILLIAMS-JACKSON, New York City.  
2 Blackfoot skulls collected by Audubon.
- ROBERT H. LAMBORN ESTATE.  
737 specimens, including objects in clay, stone, bone, shell, and copper, among which are a number of specimens from Mexico, and archaeological specimens from localities in the United States.
- MISS E. H. COTHEAL, New York City.  
Ethnological specimens collected among the Sioux Indians in 1838, and various ethnological specimens from North America and foreign countries, also archaeological specimens from Costa Rica.
- COL. ARCHIBALD ROGERS, Hyde Park, N. Y.  
A very large Navajo blanket.
- AMERICAN ETHNOLOGICAL SOCIETY, New York. (As a permanent deposit.)  
Archaeological specimens from Central America and Europe.
- B. F. ZOGBAUM, New Rochelle, N. Y.  
Facsimile of the treaty between the Sultan of Sulu and Brig.-Gen. Bates, U. S. Volunteers, 1899, in Malay language expressed in Arabic characters.
- MR. ROGERS, Mooretown, Cal.  
A stone mortar from California.
- ERNEST SCHERNIKOW, New York City.  
Stone seat from Costa Rica.
- MRS. C. EMERY, New York City.  
Feather cape and feather fringe from South America.
- CLARENCE B. MOORE, Philadelphia.  
A collection of perforated shell implements used as tools, from west coast of Florida.
- DR. ROLAND STEINER, Grovetown, Ga.  
2 basket fish-traps made by old negroes on coast of Georgia (supposed to be an African survival).
- J. DORENBERG, Leipzig, Germany.  
Photographs of different Mexican antiquities.
- R. A. IMBERT, Santa Domingo.  
Terra-cotta head found at Isabela, San Domingo.
- JOHN WISMANN, Brooklyn, N. Y.  
4 arrow-heads from Montgomery County, Penn.
- PROFESSOR ALBERT S. BICKMORE, New York City.  
Silver chain made by natives of Madagascar.
- JOHN JEROLAMAN, New York City.  
Carved stone disk from Charapan, Mexico.
- RICHARD ALLEN MARTIN, New York City.  
Basket made by Cape Flattery Indians.
- J. C. HEALD, Nashville, Cal.  
A long Maidu pestle.

- J. W. HORNOR, New York City.  
11 pairs of shoes and 9 hats from eastern Asia.
- T. JAY BUFORD, Siletz, Ore.  
A very old copper sword.
- MISS GRACE STUART REID, New York City.  
A book of botanical specimens and a piece of fancy-work from Bulgaria. (Gift to the Missionary exhibit.)
- FROM A FRIEND.  
Archæological specimens from New York State and New Jersey, collected by M. R. Harrington; and specimens from an ancient turquoise mine in New Mexico.
- A. H. REMSEN, Locust Valley, L. I., N. Y.  
Stone axe and several stone arrow-heads, and a pitted discoidal stone from Long Island.
- DR. F. E. HYDE, New York City.  
An Omaha skin tent and poles.
- J. H. AND ROBERT QUIMBY, New York City.  
Archæological specimens from Pelham Park and Armonk, N. Y.
- THE ECUMENICAL CONFERENCE (by transfer to the Museum).  
The large collection illustrating the life and customs of native peoples of China, India, Japan, Korea, Formosa, Africa, Madagascar, Sweden, Holland, Great Britain, Guatemala, Nicaragua, South America, and Alaska. Collected by many missionaries.
- LOUIS M. BONNEFOI, New York City.  
Leather moccasin from Cuba.
- H. W. BACHMAN, New York City.  
Bow and quiver of arrows that belonged to a Mescalero Apache. Collected in 1865.
- JOHN NEAFIE, New York City.  
Miscellaneous collection of archæological specimens from New York State.
- MISS S. D. DOREMUS, New York City.  
Ethnological specimens from China, Japan, Burma, South Sea Islands.
- CAPT. WILLIS WITTICH.  
Bark mat made by Cape Flattery Indians.
- MRS. F. N. DOUBLEDAY.  
Bird-skin pouch from Alaska.
- GEORGE N. MAYNARD.  
Coat of chain mail ploughed up in valley of Black River, near Coventry, Vt., in 1826-27; bow and arrows, bow-case and quiver from Sioux; Nez Percé's field-glass, case ornamented with bead-work; moccasins from British Columbia; Indian belt, Japanese bow and arrows.
- MRS. HARRIET MAXWELL CONVERSE, New York.  
80 ancient potsberds and a stone knife from Cattaraugus Indian reservation.
- MRS. H. J. NEWTON, New York.  
Plaster cast of a stone sculpture from Ohio.

## FROM MUSEUM EXPEDITIONS.

- JESUP NORTH PACIFIC EXPEDITION. Provided for by Morris K. Jesup.  
 Specimens illustrating industries, customs, and beliefs of Amoor tribes, Siberia. Collected by Dr. Berthold Laufer.  
 Archaeological specimens from the Amoor district, Siberia. Collected by Gerard Fowke.  
 Plaster casts from Nanaimo, B. C., also 2 totem-poles from British Columbia, and 2 canoes from State of Washington. Collected by Harlan I. Smith.  
 Ethnological and archaeological specimens from Thompson River region, British Columbia. Collected by James Teit.  
 Four house posts and back of seat from Vancouver, B. C. Collected by George Hunt.  
 A wooden figure from Seattle, Washington. Collected by M. R. Harrington.  
 Ethnological collection from the Indians of Vancouver Island. Collected by Franz Boas and George Hunt.  
 Ethnological collection from the Indians of the State of Washington. Collected by Livingston Farrand.
- NORTH AMERICAN INDIAN RESEARCH.  
 C. P. HUNTINGTON EXPEDITION.  
 Collection of California basketry, made by Roland B. Dixon.
- MRS. MORRIS K. JESUP EXPEDITION.  
 Specimens illustrating the industries, ceremonials, and art of the Arapaho, Shoshone, Bannock, Ute, and Kootenay Indians. Collected by Alfred L. Kroeber.
- HENRY VILLARD EXPEDITION.  
 Ethnological collection from Indians in Oregon. Collected by Livingston Farrand.
- MEXICAN EXPEDITION. Contributions of Duke of Loubat and James M. Constable.  
 Collection from the exploration of ruins and tombs in the State of Oaxaca. Ethnological specimens from several places in Mexico, and an ancient Mexican Map. Collected by M. H. Saville.
- DR. F. E. HYDE.  
 Archaeological collections received from explorations at Trenton, N. J., including negatives and photographs. Collected by Ernest Volk.
- B. T. B. AND F. E. HYDE, JR., EXPEDITION.  
 80 plaster casts, over 500 negatives, records of measurements of over 900 Zuñi, Moki, and other Pueblo Indians; also skeletons, and various objects found with them; and a number of articles to be used in ethnic groups. A collection made several years ago from the cliff-houses, Mancos Cañon, by purchase.
- PERUVIAN EXPEDITION.  
 A large collection of trephined skulls, and archaeological specimens from explorations at Sicasica and other places in the vicinity of Lake Titicaca, Bolivia. Collected by A. F. Bandelier.
- EXPLORATIONS IN COLOMBIA AND COSTA RICA.  
 Archaeological specimens from an ancient burial-place in northeastern Colombia, and a collection illustrating the burial ceremony of the Indians of Costa Rica. Collected by Francis C. Nicholas.
- EXPLORATIONS IN NEW YORK STATE.  
 Collections from ancient village sites and burial-places at Port Washington, L. I., and West Chester, N. Y. Collected by M. R. Harrington.

BY EXCHANGE.

- JOHN B. PINE, New York City.  
An Iroquois wampum war ransom string.
- U. S. NATIONAL MUSEUM, Washington, D. C.  
7 plaster casts of stone and whalebone clubs from Washington and Alaska.
- FIELD COLUMBIAN MUSEUM, Chicago, Ill.  
15 plaster casts of West Coast Indians.
- LIEUT. G. T. EMMONS, Princeton, N. J.  
Stone spoon and jade nose-ornament from Alaska.
- E. L. PRIOR, New York.  
A canoe and a native hat from Malay Archipelago.

BY PURCHASE.

- A "doctor's" outfit (21 pieces) from Alaska.
- A collection illustrating the life of Eskimo of Cumberland Sound.
- Ethnological collection from Africa.
- Specimens of Iroquois silver work.
- 2 lots of archæological specimens from Costa Rica.
- A Sioux shirt.
- 2 trephined skulls and one other skull from Urcos, Upper Peru, and a pottery jar from Chala, coast of Peru.
- 34 pottery vessels, pipes, celts, shell ornaments, etc., collected from Indian graves at Gypsum, Texas.
- A bark-cloth garment of a chief of the Chibasha tribe, Napo, Ecuador; also feather head-dress and feather fan, from Brazil.
- The Gibbs archæological collection, including a wooden stool from a cave and a "jade" axe and handle, from Turk's Island, West Indies.
- 2 pipes, a stone tube and a turtle-shell rattle from New York State (Iroquois).
- Thirty-five prints from negatives of N. M. Indians.
- Ethnological specimens from the Blackfoot Indians.
- Gold, jade and stone beads, gold and copper bells, and obsidian flakes, from Nicaragua.
- A portion of the Gen. Satterlee collection of fish-spears, bows and arrows, clubs, baskets, etc., from South Sea Islands, New Zealand and other places.
- The Stahl collection of stone yokes, sculptured stones, celts, and other objects in stone and pottery, from Puerto Rico.



# INCORPORATION.

## AN ACT

TO INCORPORATE THE

## AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles 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 and recreation.

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.<sup>1</sup>

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.

SEC. 5. This Act shall take effect immediately.

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STATE OF NEW YORK,            }  
OFFICE OF THE SECRETARY OF STATE. } s.s.:

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.

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

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

<sup>1</sup> As amended by Chapter 303, Laws of 1868, 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."



CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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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, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever

requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from 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.

#### ARTICLE V.

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

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He 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 perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

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

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

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

#### ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two

thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also 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 four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

#### ARTICLE X.

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

#### ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact

current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XII.

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

ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

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

ARTICLE XIV.

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

## ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees ; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the Trustees ; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

Patrons, giving \$1000, are each entitled to one 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 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and 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 Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

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

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

## IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

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.

## VI.

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.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

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



## PATRONS.

MORRIS K. JESUP.  
ROBERT L. STUART.\*  
Miss C. L. WOLFE.\*  
ROBERT COLGATE.\*  
FREDERIC W. STEVENS.  
PERCY R. PYNE.\*  
JAMES M. CONSTABLE.\*  
JOHN B. TREVOR.\*  
ADRIAN ISELIN.  
HUGH AUCHINCLOSS.\*  
JOSEPH W. DREXEL.\*  
WILLIAM E. DODGE.\*  
JOHN D. WOLFE.\*  
ABRAM S. HEWITT.  
C. VANDERBILT.\*  
J. PIERPONT MORGAN.  
CHARLES LANIER.  
D. JACKSON STEWARD.\*  
EDWARD CLARK.\*  
A. G. PHELPS DODGE.  
JAMES BROWN.\*  
A. T. STEWART.\*  
S. WHITNEY PHENIX.\*  
BENJAMIN H. FIELD.\*  
WILLIAM T. BLODGETT.\*  
OLIVER HARRIMAN.  
ROBERT BONNER.\*  
JAMES B. COLGATE.  
ALEXANDER STUART.\*  
WILLIAM A. HAINES.\*  
BENJAMIN AYMAR.\*  
RICHARD ARNOLD.\*  
JOSEPH H. CHOATE.  
JONATHAN THORNE.\*  
Miss PHEBE ANNA THORNE.  
D. O. MILLS.  
JOHN A. C. GRAY.\*  
HEBER R. BISHOP.  
CHAS. G. LANDON.\*  
WILLIAM E. DODGE.  
PETER COOPER.\*  
WILLIAM H. ASPINWALL.\*

B. H. HUTTON.\*  
J. TAYLOR JOHNSTON.\*  
D. N. BARNEY.\*  
I. N. PHELPS.\*  
JAMES STOKES.\*  
D. WILLIS JAMES.  
EDWARD MATTHEWS.  
WILLIAM T. GARNER.\*  
JAMES LENOX.\*  
A. H. BARNEY.\*  
COLEMAN T. ROBINSON.\*  
BENJAMIN B. SHERMAN.\*  
JAMES R. ELY.  
JONAS G. CLARK.\*  
JOHN ANDERSON.\*  
JOHN JACOB ASTOR.\*  
WILLIAM WALDORF ASTOR.  
CATHERINE L. SPENCER.\*  
JAS. GORDON BENNETT.  
CYRUS W. FIELD.\*  
ALEX. H. BROWN, M.P.  
J. A. BOSTWICK.\*  
FREDERICK BILLINGS.\*  
MRS. ROBERT L. STUART.\*  
JESSE SELIGMAN.\*  
THEO. ROOSEVELT.  
OSWALD OTTENDORFER.\*  
J. HAMPDEN ROBB.  
J. F. LOUBAT.  
H. J. JEWETT.\*  
WM. D. SLOANE.  
D. G. ELLIOT.  
LIEUT. G. T. EMMONS, U.S.N.  
C. P. HUNTINGTON.\*  
GEO. W. VANDERBILT.  
EDWARD D. ADAMS.  
WILLIAM C. SCHERMERHORN.  
JOHN J. CROOKE.  
HENRY SELIGMAN.  
RICHARD T. WILSON.  
JOHN E. PARSONS.  
FRANCIS O. MATTHIESSEN.

\* Deceased.

A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
 M. C. D. BORDEN.  
 ARCHIBALD ROGERS.  
 GEORGE C. COOPER.\*  
 MRS. M. SCHUYLER ELLIOT.  
 APPLETON STURGIS.\*  
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 WILLIAM C. WHITNEY.  
 GEORGE G. HAVEN.  
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 HENRY VILLARD.\*  
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 AUSTIN CORBIN.\*  
 ANSON W. HARD.  
 GUSTAV E. KISSEL.  
 ELBRIDGE T. GERRY.  
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 HENRY FAIRFIELD OSBORN.  
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 VICTOR CORSE THORNE.  
 EDWIN THORNE.

JOEL WOLFE THORNE.  
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 HICKS ARNOLD.  
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 JOHN B. MARCOU.  
 PHILLIPE MARCOU.  
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 GEORGE A. HEARN.  
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 Dr. ELIZABETH M. STURGIS.  
 FREDERICK A. CONSTABLE.  
 CHARLES M. JESUP.  
 PERCY R. PYNE.  
 EDWIN H. WEATHERBEE.

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## FELLOWS.

SAMUEL WILLETS.\*  
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 C. V. S. ROOSEVELT.\*  
 CHARLES W. GRISWOLD.\*  
 SAMUEL F. B. MORSE.\*  
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 GEORGE BLISS.\*  
 R. A. WITTHAUS, M.D.  
 THOMAS BARRON.\*

\* Deceased.

GEORGE W. CASS.\*  
 CHARLES W. CASS.\*  
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 MISS LAURA P. HALSTED.  
 ROBERT S. BREWSTER.  
 JOHN L. CADWALADER.  
 WM. EARLE DODGE, 3RD.

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 G. B. AGNEW.  
 JOHN E. ALEXANDRE.  
 RICHARD H. ALLEN.  
 CONSTANT A. ANDREWS.  
 Mrs. BLANCHE L. ANDREWS.  
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 JOSEPH BUSINELL.  
 JOHN L. CADWALADER.  
 Mrs. ALEX. CAMERON.

\* Deceased.

CHAS. M. CAULDWELL, M.D.  
 ISAAC P. CHAMBERS.\*  
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 HENRY CHAUNCEY.  
 HUGH J. CHISHOLM.  
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 TREADWELL CLEVELAND.  
 HENRY CLEWS.  
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 BIRD S. COLER.  
 EDWARD COLGATE.\*  
 WILLIAM COLGATE.  
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 SAMUEL D. COLLINS.  
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 CHARLES H. CONTOIT.\*  
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 THEODORE COOPER.  
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 S. D. COYKENDALL.  
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CLEVELAND H. DODGE.  
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 E. J. DONNELL.\*  
 ANDREW E. DOUGLAS.  
 PROF. JAMES DOUGLAS.  
 R. G. DUN.\*  
 WM. BUTLER DUNCAN.  
 JAMES H. DUNHAM.  
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 Mrs. DAVID S. EGLESTON.  
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 CARL EICKEMEYER.  
 AMBROSE K. ELY.  
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 JAMES FRASER.\*  
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 GEORGE GARR.\*  
 HORACE GRAY.  
 WILLIAM H. GEBHARD.  
 THEODORE K. GIBBS.  
 PARKE GODWIN.  
 JAMES J. GOODWIN.  
 STEPHEN T. GORDON.\*  
 NORMAN GRANT.  
 ANDREW H. GREEN.  
 MORRIS M. GREEN.  
 JOHN GREENOUGH.  
 JOHN N. A. GRISWOLD.  
 JAMES B. M. GROSVENOR.  
 BERNARD G. GUNTHER.  
 FRANKLIN L. GUNTHER.  
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 JOHN P. HAINES.  
 RICHARD T. HAINES.\*  
 W. A. HAINES, JR.  
 Miss E. S. HAINES.  
 Mrs. W. A. HAINES.  
 Miss L. P. HALSTED.

\* Deceased.

WILLIAM M. HALSTED.\*  
 E. H. HARRIMAN.  
 WILLIAM GASTON HAMILTON.  
 BENJAMIN HART.  
 FREDERICK C. HAVEMEYER.\*  
 WILLIAM F. HAVEMEYER.  
 JACOB HAYS.  
 MRS. E. HERRMAN.  
 CHARLES C. HIBBARD.  
 VERY REV. E. A. HOFFMAN, D.D., LL.D.  
 GEORGE B. HOPKINS.  
 ALFRED M. HOYT.  
 MARK HOYT.\*  
 THEO. D. HOWELL.\*  
 MRS. FLORENCE HOWLAND.  
 WILSON G. HUNT.\*  
 ARCHER M. HUNTINGTON.  
 C. P. HUNTINGTON.\*  
 FRANK D. HURTT.  
 DR. FREDERICK E. HYDE.  
 JAMES H. HYDE.  
 GEORGE ILES.  
 W. B. ISHAM.  
 D. B. IVISON.  
 A. JACOBI, M.D.  
 MISS MARGARET JACOBI.  
 MISS LAURA JACOBI.  
 WALTER B. JAMES.  
 ARTHUR CURTISS JAMES.  
 MISS C. O. JONES.  
 CHAS. H. KALBFLEISCH.\*  
 GEORGE KEMP.\*  
 RUDOLPH KEPPLER.  
 JOHN KING.\*  
 JOHN ALSOP KING.\*  
 A. C. KINGSLAND.  
 WM. M. KINGSLAND.  
 PERCIVAL KNAUTH.\*  
 THEODOR WHITMAN KNAUTH.  
 GEORGE T. KNIGHT.  
 JAMES KNIGHT, M.D.\*  
 H. R. KUNHARDT, JR.  
 GEO. F. KUNZ.  
 WOODBURY G. LANGDON.  
 JOSEPH LAROCQUE.  
 JOHN BURLING LAWRENCE.

JAMES M. LAWTON.\*  
 STEPHEN R. LESHNER.\*  
 JOHN R. LIVERMORE.  
 MORRIS LOEB.  
 JOSEPH LOTH.  
 JAMES LOW.\*  
 SETH LOW, LL.D.  
 EDWARD LUCKEMEYER.  
 RICHARD S. LULL.  
 E. H. R. LYMAN.\*  
 MRS. WM. H. MACY, JR.  
 ALEXANDER MAITLAND.  
 GODFREY MANNHEIMER.  
 FRANCIS H. MARKOE, M.D.  
 H. G. MARQUAND.  
 PETER MARIE.  
 BRADLEY MARTIN.  
 WILLIAM C. MARTIN.\*  
 ALBERT MATHEWS.  
 GEORGE W. MAYNARD.  
 JOHN J. MCCOOK.  
 JOHN T. METCALFE, M.D.  
 JACOB MEYER.  
 DR. A. B. MEYER.  
 CHARLES ADDISON MILLER.\*  
 A. G. MILLS.  
 ROBERT B. MINTURN.\*  
 ROWLAND G. MITCHELL, JR.  
 E. A. MOEN.  
 E. C. MOORE.\*  
 JOHN G. MOORE.\*  
 MRS. E. C. MOORE.  
 CHARLES MORAN.\*  
 J. PIERPONT MORGAN.  
 MANDEVILLE MOWER.\*  
 PERCY MUSGRAVE.  
 THOMAS B. MUSGRAVE.  
 W. B. NEFTEL, M.D.  
 H. VICTOR NEWCOMB.  
 W. D. NICHOLS.  
 WILLIAM NIVEN.  
 THOMAS H. O'CONNOR.  
 C. H. ODELL.  
 E. OELBERMANN.\*  
 MRS. CATHARINE L. OLMSTED.  
 H. O'NEILL.

\* Deceased.

A. O. OSBORN.\*  
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 JOHN C. OSGOOD.  
 HENRY PARISH.  
 JOHN E. PARSONS.  
 WILLIAM I. PEAKE.  
 ALFRED PELL.  
 MISS FRANCES PELL.  
 GIFFORD PINCHOT.  
 JAMES W. PINCHOT.  
 HENRY B. PLANT.\*  
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 HENRY H. WOTHERSPOON.  
 JOHN H. WYMAN.\*  
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 Adee, Philip H.  
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 Roosevelt, Robert B.  
 Roosevelt, W. Emlen  
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 Russak, Jacob  
  
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 Sands, Mrs. B. Aymar  
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 Schafer, Simon  
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 Scudder, Moses L.  
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 Stern, Benjamin  
 Sternberger, Maurice M.  
 Stewart, Lisenard  
 Stewart, William R.  
 Stickey, J.  
 Stiehl, Gustav H.  
 Stone, Edwin  
 Stone, Mason A.  
 Stone, Mrs. Catherine C.

- Stone, Mrs. Georgiana C.  
 Stone, Sumner R.  
 Storm, Clarence  
 Storm, George  
 Stratford, Wm.  
 Sturges, Henry C.  
 Sturgis, F. K.  
 St. John, Wm. M.  
 Sutherland, John L.  
  
 Tailer, Edward N.  
 Taintor, Charles N.  
 Talcott, James  
 Talmadge, Henry  
 Tandy, Rev. P. W.  
 Taylor, Mrs. Aug. C.  
 Taylor, George  
 Taylor, Stevenson  
 Tefft, F. Griswold  
 Tefft, Wm. E.  
 Tesla, Nikola  
 Thomas, T. G., M.D.  
 Thomson, Giraud F.  
 Thomson, Mrs. Eugene  
 Thompson, L. S.  
 Thompson, W. Prall  
 Thorne, W. V. S.  
 Tierney, Myles  
 Tiffany, Louis C.  
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 Tonnelé, John L.  
 Toothe, William  
 Townsend, R. H. L.  
 Townsend, R. W.  
 Tracy, J. Evarts  
 Trevor, H. G.  
 Turnure, George E.  
 Twombly, H. McK.  
  
 Ullmann, E. S.  
 Underhill, Jacob B.  
  
 Valentine, Mrs. Lawson  
 Valentine, Wm. A., M.D.  
 Van Brunt, Cornelius  
 Van Brunt, Hon. C. H.  
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 von Hagen, Hugo  
 Van Ingen, Edward H.  
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 Van Norden, Warner M.  
 Van Santvoord, A.  
 Van Vleck, Joseph  
 Van Winkle, Edgar B.  
 Van Winkle, Miss E. S.  
 Veit, Richard C.  
 Vermeule, John D.  
 Viele, Gen. Egbert L.  
 Vredenburg, Wm H.  
  
 Wagner, Frederic C.  
 Walcott, A. S.  
 Wales, Salem H.  
 Walker, Aldace F.  
 Walker, Mrs. Evan T.  
 Walker, William I.  
 Wallace, Lewis  
 Wallach, Antony  
 Warburg, F. M.  
 Wardwell, Wm. T.  
 Warner, Lucien C.  
 Warren, John Hobart  
 Warren, Samuel D.  
 Waterbury, John I.  
 Watson, Miss Emily A.  
 Weatherbee, Mrs. E. H.  
 Webb, Mrs. W. H.  
 Weed, Benjamin  
 Weed, Geo. E.  
 Weekes, John A.  
 Wehrhane, Chas.  
 Welsh, S. Charles  
 Wertheim, H. P.  
 Westcott, Robert E.  
 Westinghouse, George  
 Weston, Edward  
  
 Wetherill, Mrs. J. B.  
 Wetmore, Dr. John McE.  
 Wheelock, Geo. G., M.D.  
 Wheelock, Wm. A.  
 White, Horace  
 Whitehead, Charles E.  
 Whitehouse, J. Henry  
 Whitin, Lewis F.  
 Whiting, Giles  
 Whitney, Alfred R.  
 Wickes, William  
 Wickes, Edward A.  
 Wickham, Delos O.  
 Williams, George G.  
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 Wolfe, Anzonetta B.  
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 Wray, Miss Julia  
 Wright, Benjamin  
 Wright, Miss F. E.  
 Wurzburger, A.  
  
 Young, Edward L.  
 Young, E. F. C.  
 Youmans, Ephraim M.  
  
 Zabriskie, Andrew C.  
 Zickel, S.  
 Zinsser, Aug.  
 Zinsser, Wm., Jr.  
 Zollikoffer, O. F.

## DECEASED ANNUAL MEMBERS,

1900.

Bend, George H.	Foote, C. B.	Sennett, George B.
Beaman, Charles C.	Frankenberg, D.	Smith, Adon
Bernheimer, Simon	Frazee, William C.	Strong, William L.
Bissinger, Philip	Garland, James A.	Sutphen, John S.
Coster, C. H.	Higbie, William H.	Taintor, C. M.
Davison, C. A.	Koch, H. C. F.	Thomson, Eugene
Dickey, Mrs. Hugh T.	Sayre, Lewis A. M. D.	Vandervoort, W. L.
Dunlap, Robert	Schaeffer, Hermann	

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## In Memoriam.

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At an Adjourned Meeting of the Trustees of the American Museum of Natural History, held December 24, 1900, the President reported the death of Mr. OSWALD OTTENDORFER. The following minute was unanimously adopted and the Secretary was directed to present a copy of the same to the family of the deceased.

### **OSWALD OTTENDORFER,**

DIED IN THIS CITY, DECEMBER 15, 1900.

The Trustees of the American Museum of Natural History deem it fitting to give expression upon their records, as nearly as the capacity of language will permit, to their deep regret at the removal of their esteemed friend and associate.

His membership of the Board of Trustees of the Museum dates from the year 1886, and while he was deeply interested in forwarding its work, his serious illness in the later years compelled his absence at its assemblings.

The incidents of Mr. OTTENDORFER'S early life attest his devotion to the advancement of the best interests of the race.

Born in the little Austrian town of Zwittau he early entered upon the pursuit of liberal study, and while thus engaged the flames of a patriotic uprising in the cause of human liberty that burst forth in his native land enlisted his ardent sympathies and his personal prowess, involving great personal hardships, and at the risk of penalties, the rigors of which he narrowly escaped while they were enforced by the loss of life among his comrades in the great cause of liberty.

With these inspirations of early manhood he found his way to America, and ever afterwards was the warm and effective advocate of popular institutions, and with a characteristic breadth of vision whose horizon was above and beyond mere partisanship.

His large charities were cast in the direction of popular education, in the advancement of the interests of scientific investigation, in the elevation of art, and of thoughtful provision for the infirmities of age and for the alleviation of suffering without regard to race, sex, color or creed.

His native town became chiefly distinguished by being the place of his birth, and by his foundation there of an extensive free Public Library and a spacious Home for Orphans and for persons of advanced years.

In this, his adopted city, some years since, he founded a Public Library and a Medical Dispensary, and, at a situation commanding remarkable scenic attractions, he placed the Isabella Heimath, a home for aged men and women, with special departments for chronic invalids and for those convalescent.

In the administration of these varied benefactions, until within a few days of his last illness, he took a personal interest.

The conduct of the widely potential journal, over which he presided for more than forty years, commanded his like constant and personal supervision, always exercising, as it did under his direction, an influence intended to conserve the highest interests of the City, the State and Nation.

His numerous benefactions were of his own devising, and their establishment was brought about unheralded and with an unobtrusive modesty that was with him a marked characteristic.

In one capacity or another he was connected with many of the most prominent beneficent institutions of this city, and always with the most unselfish and generous zeal for the objects which they were established to promote.

It will be long before his place and his steadfast salutary influence as a citizen will be supplied.

His associates in the management of the Museum, from whose counsels he is forever withdrawn, now place among its permanent archives this all too brief record of their esteem, respect and affection for the memory of

**OSWALD OTTENDORFER.**



THE  
AMERICAN MUSEUM OF NATURAL HISTORY.



THE  
AMERICAN MUSEUM OF NATURAL  
HISTORY,

CENTRAL PARK, NEW YORK CITY,  
Seventy-seventh Street and Eighth Avenue.

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ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT. LIST OF ACCESSIONS,  
ACT OF INCORPORATION, CONSTITUTION.  
BY-LAWS AND LIST OF MEMBERS  
FOR THE YEAR 1901.



NEW YORK :  
PRINTED FOR THE MUSEUM.

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1902.

IRVING PRESS  
225 FOURTH AVENUE  
NEW YORK

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1902.

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FOR 1902.

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American Archeology.  
HARLAN I. SMITH, Assistant Curator of Archæology.

*LIBRARY.*

A. WOODWARD, Ph.D., Librarian.

FORM OF BEQUEST.

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



## THIRTY-THIRD ANNUAL REPORT.

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*To the Trustees and Members of the American Museum of Natural History :*

I have the honor to submit herewith a statement of the proceedings of the Museum for the year 1901.

**FINANCES.**—The Treasurer's Report is given on pages 41 to 47, inclusive, presenting in detail the receipts and disbursements for Endowment and Maintenance separately.

*Maintenance.*—The estimated cost of maintaining the Museum, as shown in the Budget, approved by the Trustees, was \$23,059 in excess of the city appropriation of \$130,000. As the year progressed, circumstances permitted a reduction of the cost of maintenance, and the actual deficit December 31st was \$17,773.75. This shortage in the receipts for maintenance was, as heretofore, paid by the Trustees, who have contributed \$268,167 for this purpose since the opening of the Museum.

The subscriptions received from the Trustees and others whose names are noted in the Treasurer's Report, enable the Museum to commence the new year with a cash surplus of \$7,641.21.

*Endowment Fund.*—The Trustees have received the legacy of \$25,000 bequeathed to the Museum by their late colleague, Oswald Ottendorfer, and \$5,000 from the estate of the late Henry Villard. These bequests were paid in full; the payment of the inheritance tax having been assumed by the executors. The entire sum will be invested and the income used solely for the increase and betterment of the collections.

BOARD OF TRUSTEES.—Professor Henry Fairfield Osborn was made a member of the Board of Trustees and elected Second Vice-President at the annual meeting held in February, 1901.

MEMBERSHIP.—During the past year the Museum gained 155 new annual subscribers; the loss by death and resignation was 46, leaving a net gain of 109 in this grade of membership. Mrs. C. P. Huntington, Mrs. Frederick F. Thompson, Miss Susan Dwight Bliss and Messrs. John L. Cadwalader, George S. Bowdoin, Archer M. Huntington, George Foster Peabody, John D. Rockefeller, Andrew Ellicott Douglass, John D. Rockefeller, Jr., Jacob H. Schiff, John Taylor Terry, Jr., and Rev. Roderick Terry, D. D., were elected "Patrons."

Mr. William Lanman Bull and General Egbert L. Viele, U. S. A., were elected "Fellows," and the following-named persons were elected "Life Members": Mrs. Joseph M. White, Miss Georgette T. A. Collier and Messrs. George Foster Peabody, Alfred R. Whitney, John B. McDonald, Silas D. Webb, Jacob Rubino, Thomas C. Bushnell, David L. Bruce-Brown, W. R. Peters, George Blumenthal, L. G. Woodhouse, W. H. Perkins, Louis Haupt, M. D., and V. H. Jackson, M. D., D. D. S.

It is with much regret that I record the decease of George T. Bliss, Francis O. Matthiessen and Andrew Ellicott Douglass, of the list of Patrons, and J. H. Dunham, Horace Gray, Samuel B. Schieffelin and Loomis L. White, Life Members.

Thirty-five annual contributors, whose names are recorded at the close of the list of Annual Members, have died during the year.

TRANSPORTATION.—I acknowledge with many thanks the valuable assistance received from several railroad companies in granting transportation to the persons engaged in the various expeditions sent into the field by the Museum. For these courtesies we are indebted to the following corporations: The Wabash and Missouri Pacific systems, Southern Pacific Company and connecting steamship lines, the Atchison,

Topeka & Santa Fé system, Denver & Rio Grande, Erie system, Chicago & Northwestern, Chicago, Milwaukee & St. Paul, the Burlington system, the Northern Pacific, Great Northern, Canadian Pacific and the Mexican Central and Mexican International Railway Companies.

ATTENDANCE.—The use of the collections by public and private educational institutions is a marked feature of the work of the Museum; many of these pupils and teachers come from nearby towns and cities, nearly twenty per cent representing schools in New Jersey, while delegations from Connecticut, Pennsylvania and Virginia are noteworthy. The record shows that 361 teachers and 4,959 pupils made use of the collections during the year. The total attendance of visitors during the year was 461,026.

The Museum was closed in the evening during the Summer months to permit needed repairs to the lighting plant to be made.

DEPARTMENT OF MINERALOGY.—The gift to the Museum by Mr. J. Pierpont Morgan of the famous Bement collection of minerals at the close of the year 1900 was briefly noticed in my last Annual Report, but an extended reference to this collection, which is one of the most valuable individual gifts ever received by the Museum, could not be made at the time of preparing that report, because the specimens had not then been unpacked and placed in the exhibition cases. The acquisition of this immense collection at once made desirable the erection of an independent Department of Mineralogy. The new department was organized at the beginning of the year, and the Trustees installed as Curator, Mr. Louis P. Gratacap, who had had the care of the minerals for several years, while they were still under the charge of the Curator of Geology. The shells remaining in the central hall on the fourth floor of the Museum building were removed to the fifth floor, the minerals of the former Museum collection were removed from exhibition in the desk cases in the western half of the same hall, and from the smaller hall, and the space thus freed was de-

voted to the installation of the newly-acquired Bement collection. The Curator reports that this collection was found to contain about 12,000 specimens, all of them exhibition material of the highest grade, representative of most of the known established species. The available space, furthermore, was found to be inadequate to the proper display of the Bement collection alone, so that it became necessary to relegate all the best specimens of the old Museum collection to the drawers underneath the cases, to form a reserve or study collection, after sorting therefrom the material that could justly be considered to be duplicates.

The preliminary arrangement of such a collection, which has been done in accordance with the latest edition of Dana's *System of Mineralogy* and the preparation of the labels is a task of considerable magnitude. The installation was carried forward so rapidly, however, that it was feasible to throw the collection open to the view of the members of the Museum and their friends on Members' Day, November 26, and to the general public soon thereafter. Many inquiries had been made before that date by the persons interested in mineralogy as to when the Bement collection would be open to view, and the mineral halls have since been frequently visited both by students of the science and by those who are fond of minerals merely as objects of beauty. It is not too much to say that our Institution now possesses the best and most beautiful exhibition series of mineral specimens in this country, and one of the finest in the world. In his report the Curator calls attention to the facts that not more than half of this great collection has yet been provided with labels or installed on permanent mounts, and that much remains to be done in the way of providing group and explanatory labels, maps to show the geographical distribution of the more common and important minerals, and other accessories for rendering the collection attractive, intelligible and instructive to the average visitor.

As a part of the Bement collection the Museum received a series of meteorites that deserves more than the passing notice which can be given it here. The meteorite collection

contains representatives of nearly five hundred falls and finds, and ranks as one of the largest collections of fragments of these visitors from space. At present, for lack of other case-room, these valuable and interesting specimens are crowded together in some of the desk cases.

*The Gem Collection.*—At the outset of its existence the Department of Mineralogy was confronted with the problem of installing the Gem collection, which had been greatly enlarged, more than doubled, in fact, by the acquisition of the magnificent Tiffany exhibit at the Universal Exposition at Paris. The purchase of this exhibit was made possible through the generosity of Mr. J. Pierpont Morgan, to whom, indeed, we were indebted for our first gem collection, a series of stones which compared favorably with others of its kind and gave delight and instruction to thousands of visitors. The gem collection has been installed in an attractive manner at the southern end of the hall west of the Mineral hall. To undertake an enumeration of the salient points of a collection like this would be quite without the scope of this report, but attention may be called to the marvelous display of cut and uncut materials in the groups of corundums (sapphires), beryls (emeralds), topazes, garnets, tourmalines, chrysoberyls (alexandrites), opals, amethysts, diamonds, golds and pearls. The carved and engraved vases and other objects of jadeite, nephrite, rhodonite and rock crystal attract the notice of every visitor. A descriptive catalogue of this noble collection is being prepared by Mr. George F. Kunz.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALEONTOLOGY.—The work of the Curator of the department carried the task of labeling the palæontological collection well forward, 2,187 exhibition labels, bearing generic, specific and authors' names, geological formation and locality, having been prepared for individual specimens. The great amount of geological material which was received with the James Hall collection, and which has not been taken from the original boxes heretofore for lack of room in which to store the speci-

mens, has been carefully sorted and the valuable portion placed in drawers where it is accessible. The large collection of fossil remains of fish and other organisms from the Mt. Lebanon region in Syria, presented by the Protestant College at Beirût, through Rev. D. Stuart Dodge, D.D., of this city, is the most important gift received by the department during the year. Caring for this material required considerable time and attention

The publication of the Catalogue of types and figured specimens in the palæontological collection of the department, which has been in progress for several years, has been completed. This Catalogue emphasizes in marked manner the importance of this portion of the Museum's property, and the work upon it has developed the fact that above one thousand more types and figured specimens are in the collection than were originally supposed to be there. The following extract from the preface of the volume of the *Bulletin* which is devoted to the Catalogue will indicate clearly the scope and character of the work and the collection:

"The chief palæontological possession of the Geological Department of the American Museum of Natural History is the great James Hall collection which was purchased in 1875 from the celebrated palæontologist, and the principal feature of that collection is the large number of type and other illustrated specimens, especially of Palæozoic species, which it contains. This Hall collection may well be considered the standard reference collection for all workers in North American Palæozoic palæontology; hence the desirability of publishing a complete record of these valuable specimens. Other collections have been added to the department from time to time through exchange and other means, but with few exceptions they contain no types. Most of the "figured specimens" in the series are those which were identified, redescribed, illustrated and published by Professor Hall in the early volumes of the Palæontology of New York, and therefore have almost the dignity and value of types.

"Of the specimens described and illustrated in the quarto volumes of the Palæontology of New York, the Museum possesses two-thirds of those in Volume I, covering the Cambrian and Lower Silurian systems; nearly eight-tenths of those in Volume II, extending from the Medina to the Onondaga stages, inclusive; three-fourths of those in Volume III, which treats of the Lower Helderberg and Oriskany groups; more than one-third of those in Volume IV, which describes the Brachiopoda of the Devonian system from the Upper Helderberg to the Chemung; about thirty per cent. of the specimens illustrated in Volume V, Part I, which is devoted to the Lamellibranchiata of the Upper Helderberg (or Corniferous), Hamilton and Chemung groups; and a nearly equal proportion of the Cephalopoda and Gastropoda illustrated in Volume V, Part II. The collection, however, contains only about 74 of the specimens of Bryozoa given in Volume VI, and about 70 of the Crustacea illustrated in Volume VII of the Palæontology of New York. Much of the

material for Volume VIII, on the Brachiopoda, was prepared for publication prior to 1876, hence a large proportion of the specimens used for illustrations are to be found in the American Museum, especially of those used for the plates bearing the name of R. P. Whitfield.

“Most of the species in the volumes above mentioned were first published in the Regents’ Reports on the Condition of the State Cabinet (or State Museum, as it is now called), but material from other States than New York was also used in these reports, and the American Museum has the fossils from the Wisconsin-Minnesota Cambrian beds described and figured in the sixteenth Report; the Niagara material from Waldron, Ind., published in the twenty-eighth Report; and the graptolites and the Wisconsin Niagara species given in the twentieth Report. The Trenton fossils from Wisconsin described in the Report of Progress of the Geological Survey of Wisconsin for 1861 are here, and the original descriptions have been republished with illustrations and notes by R. P. Whitfield in the Memoirs of the American Museum of Natural History, Volume I, Part II. The Museum has all the Warsaw fossils from Spargen Hill, Ind., originally published without figures by Hall in the Transactions of the Albany Institute, Volume IV, and republished by Whitfield with figures in Bulletin Am. Mus. Nat. Hist., Vol. I. The collection also includes the type fossils from the Clinton beds at Arisaig, Nova Scotia, described by Hall in Volume V of the Canadian Naturalist and Geologist; many of the Devonian and higher forms described by the same author in the Geology of Iowa and the Supplement to the Iowa Report, the latter being republished with figures, by Whitfield in Mem. Am. Mus. Nat. Hist., Vol. I, Part I; several type specimens of the Dictyospongidae, some of which have been described by Whitfield in the Bulletin of the Am. Mus. Nat. Hist., Vol. I, and others by Hall and Clarke in a Memoir on the Palaeozoic Reticulate Sponges; Hall and Meek’s types from the Cretaceous of the Bad Lands of Dakota, Nebraska and Wyoming, described in the Memoirs of the American Academy of Science and Arts, Vol. V; the fruits and seeds from the Eocene beds at Brandon, Vt., described by Lesquereux and published in Hitchcock’s Geology of Vermont, and some of the Cephalopoda, Gastropoda and Lamellibranchiata described by Whitfield in his U. S. Geological Survey monographs on the Cretaceous and Tertiary fossils of New Jersey. The Museum also has the Holmes collection, which includes more than two hundred of the specimens described and figured in Tuomey and Holmes’s Pleiocene Fossils of South Carolina and in Francis S. Holmes’s work on the Post-Pleiocene Fossils of South Carolina. The fossils described in the various bulletins and memoirs of the American Museum of Natural History are here as a matter of course. In addition to the republication of certain of Hall’s types already mentioned, there have been described and illustrated in the Bulletin a large series of fossils of Chazy and Birdseye age from Fort Cassin, Vt., Beekmantown, N. Y., and other localities on Lake Champlain, and many Cretaceous forms from Beirut, Syria, and from Jamaica, W. I.

“The term ‘type’, as employed in the Geological Department of the American Museum, embraces not only the specimens actually used by an author in the original description of a species, but also those specimens which have been used by the same author in the further elucidation of the species in subsequent publications. The types may or may not have been illustrated in connection with the first publication. ‘Figured specimen’ is the term applied here to the specimens which have been identified with a species by another person than the author of the species and which have been illustrated in some publication. From the standpoint of the student and investigator, types are the most valuable portion of any collection, and should, therefore, be marked in some conspicuous manner and be preserved with the greatest

care. All the types and figured specimens in this Department are individualized by the use of a small rhomb of emerald green paper securely gummed to each."

As is shown in the following tabular summary, there are in this department of the Museum 8,345 type and figured specimens, representing 2,721 species and 190 varieties:

PARTS.	TYPES.			FIG'D SPECIMENS.			REFERENCES.	
	Species.	Varieties.	Specimens.	Species.	Varieties.	Specimens.	Page.	Figure.
I.....	448	10	1070	16	107	450	836	2372
II.....	635	22	1791	92	0	625	1236	4504
III.....	667	27	1707	158	5	717	3329	5437
IV.....	472	12	1598	233	7	387	1160	2011
<b>Totals....</b>	<b>2222</b>	<b>71</b>	<b>6166</b>	<b>499</b>	<b>119</b>	<b>2179</b>	<b>6561</b>	<b>14324</b>

*Expedition.*—Dr. E. O. Hovey, the Associate Curator of the department, spent about two months in the field, collecting invertebrate fossils from Jurassic and Cretaceous beds at various localities in the Black Hills region of South Dakota and Wyoming. The Jurassic fossils were especially needed, but the Cretaceous forms are likewise of great value, some of them enabling Professor Whitfield to complete important investigations which he began in 1876, when at work on the fossils collected by Messrs. Newton and Jenney for the United States Geological Survey of the Black Hills.

*Accessions.*—Next to the fossil remains from Mt. Lebanon, Syria, already mentioned, the chief donation to the department was a large and handsome slab of crinoids from the Niobrara Chalk beds of Kansas, given by Frank Springer,



Esq., of East Las Vegas, New Mexico. There has been deposited with the Museum by the Geological Board of Georgia a series of handsome eight-inch cubes illustrating the building stones of that State. The series, which was collected for the State of Georgia by Dr. W. S. Yeates, State Geologist, comprises thirty-eight specimens and includes gray, homogeneous granite of several shades, porphyritic granite, gneiss, sandstone, limestone and mottled and white marble. Mention should be made also of fossil cycad trunks from the Jurassic (?) beds of the Black Hills, obtained early in the year by purchase. These additions and some minor purchases, together with the material collected in the Black Hills, have rendered the year an unusual one in the growth of the department. It is to be hoped that the rate of increase and improvement can be maintained in the future.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—The Curator of this department reports that the growth of the collections under his charge has been unusually and satisfactorily large; 1,512 specimens having been added to the series of mammals and 3,195 specimens to the series of birds. One hundred and sixty mammals were received in the flesh by donation from the New York Zoölogical Society and the Central Park Menagerie. Among these there are several specimens of great importance. The museum is indebted, furthermore, to the Duke of Loubat for a valuable collection numbering 120 specimens of mammals and 110 birds from the State of Jalisco, Mexico, presented by him. Seven bird groups have been placed in the exhibition halls, through the generosity of Mr. John L. Cadwalader, who provided the means for the collection and preparation of the specimens.

The acquisitions through museum expeditions have been largely in excess of those obtained in this manner in previous years, and have included an immense amount of valuable material. This work for the department has been carried on by Mr. Samuel L. Klages in Venezuela, by Mr. N. G. Buxton in Siberia, under the auspices of the Jesup North Pacific expedition, by Mr. J. H. Batty in Chiriqui and Panama, and by

Mr. H. H. Smith in Colombia. Furthermore, an expedition known as the A. J. Stone Expedition was organized early in the year by Madison Grant, Esq., and other friends of the Museum, the work of which is to cover a period of three years. Mr. Stone, accompanied by an assistant from the Museum, reached Alaska at the opening of the season, and collected mainly on the Kenai and Alaskan peninsulas. The results of the first season's work are very satisfactory, including about fifty large mammals, obtained with special reference to mounting in groups, about two hundred small mammals, and several hundred birds. Since the Museum has never before received collections from this part of America, these specimens form a very important addition to our collections.

The following groups representing birds and their habits have been added to the series in our halls: The Bird Rock Islands of the Gulf of St. Lawrence, a large group illustrating several kinds of sea birds; the Red-winged Blackbird, the Marsh Wren, the Phalarope, the Water Ousel, the Coot, the Yellow-headed Blackbird, the Passenger Pigeon. An illustrated "Guide Leaflet" of twenty-four pages descriptive of the Bird Rock Group was prepared by Mr. Frank M. Chapman, the Associate Curator, and issued as a supplement to the *American Museum Journal* for October. This description has proved to be of great interest and value to visitors.

DEPARTMENT OF ANTHROPOLOGY.—The Curator of the Department of Anthropology reports that a large amount of work has been done by the several divisions and sections, but that much remains to be done before matters will be in readiness for the Thirteenth International Congress of Americanists which convenes at the American Museum in October, 1902. During the year to which this Report refers, expeditions under the auspices of this department were maintained in several parts of the United States, both east and west, and in Alaska, British Columbia, Mexico, Central America, Bolivia, Peru, Greenland, Siberia, Japan, Corea and China, resulting in large additions to the collections and furnishing much material for description as well as for exhibition. The results which

thus far have followed from these expeditions have received favorable comment from scientific institutions and individuals both at home and abroad. With the accumulations of the past year, however, and the vast amount of material which will arrive at the Museum during the coming year, the cost of publishing the memoirs resulting from these extensive investigations naturally becomes a serious item. It does not seem proper to ask those who have generously placed parties in the field, also to provide the funds for publishing the scientific results of their investigations: on the other hand, the general funds of the Museum are not sufficient to meet the obligation.

*The Jesup North Pacific Expedition.*—The work of the Jesup expedition has progressed satisfactorily, and important collections have been received from Mr. James Teit, Mr. George Hunt, Dr. John R. Swanton and Dr. C. F. Newcombe, and from Messrs. W. Jochelson and W. Bogoras. The collections of Messrs. Jochelson and Bogoras open up an entirely new field for the Museum, illustrating as they do the life of all the tribes of the extreme northeastern part of Siberia. The investigations of these gentlemen among the Chukchee, the Koryak and Yukagheer tribes, which live on the coast of the Sea of Okhotsk, have been completed and the material collected during their course has been forwarded to the Museum. Mr. Bogoras is on his way to New York, but Mr. Jochelson is still in Siberia.

The collection of models of totem poles, with full explanations, made by Dr. Swanton is particularly worthy of mention, and he has succeeded by means of this collection in illustrating the significance of these peculiar emblems. One of the most striking objects sent in from the Queen Charlotte Islands is a large, well-preserved totem pole fully fifty feet in height. This has been erected in the open space of the stairway in the West Corridor hall. Dr. Swanton's collections also include a series of beautifully carved spoons, with full explanations of their ornamentation. A large part of Mr. Hunt's collections was obtained at the northern end of Vancouver Island. A

group illustrating the life of the tribes living along the Amur river has been prepared and is awaiting a suitable case.

*The Mrs. Morris K. Jesup Expedition.*—Early in the year Dr. A. L. Krøeber finished his field work in connection with the investigation of the Arapaho Indians, and his collections at present form the main portion of our material from the Indians of the plains. The publication of the results of the important investigations which have been carried on among the Arapaho remains to be done, the completed manuscript and illustrations being already in hand. A large group containing many small figures representing the religious ceremony of the Arapaho, known as the "Sun Dance," has been prepared.

*The Huntington Expedition.*—The field work of the Huntington California expedition of 1900 came to a close early this year, and the collections received from this expedition, which was in the charge of Dr. Roland B. Dixon, are all on exhibition. Mrs. C. P. Huntington and Mr. Archer M. Huntington have provided for the continuance of this work, in which the late Mr. Collis P. Huntington was so much interested.

*The B. T. B. Hyde and F. E. Hyde, Jr., Expedition.*—Owing to the large amount of work to be done on material collected by this expedition in former years, in order to get it catalogued and ready for exhibition, field work in the Southwest was largely suspended. Some of the material mentioned in my last report as having been obtained by this expedition has been arranged in the cases in the southwestern portion of the West hall of the second floor. Especial attention may be called to the remarkable collection from the burial caves and cliff houses of the Grand Gulch region in Utah, to the collections from the Zuñi and Hopi Pueblos and to the extensive display of turquoise ornaments and other objects from the ruined Pueblo Bonito in the Chaco cañon, New Mexico. All the available cases, however, have been filled, and only a very small portion of the Hyde expedition material has been actually placed on exhibition. The Messrs. Hyde have generously provided for

the publication of Dr. Washington Matthews' important account of the Navaho ceremony known as the "Night Chant." This is a valuable contribution to American ethnology, and is the result of more than twenty years' work by the author. Dr. Matthews' account will form an entire volume of our Museum Memoirs, with several plates and text illustrations, and will be issued early in 1902.

*Mexican Expedition.*—Mr. M. H. Saville spent the winter of 1900-1901 in continuing his explorations of the ruins of Mitla, under the grant made for the purpose by the Duke of Loubat. The scientific results of these explorations are important, and have led to the solution of several problems connected with the architecture of the celebrated ruins in the vicinity of Mitla. The expedition also succeeded in obtaining a pre-Columbian map or "lienzo" on native cloth, which is a unique example of this class of American codices, and a specimen of Mexican painting on maguey paper, consisting of a map of Teotihuacan. These maps have been framed and placed on exhibition in the Mexican hall. The department furthermore has received two reproductions of pre-Columbian codices from the Duke of Loubat, the Tonalamatl Aubin and the Codex Féjérvary-Mayer, which add greatly to our exhibit of ancient Mexican picture writings.

The Duke of Loubat having provided for another expedition to Mexico, Mr. Saville left New York about the middle of December to complete the work at Mitla, and to carry on explorations in the Oaxaca valley.

*Expedition to China.*—Through the generosity of a friend of the Museum, who desires to have his name withheld, our institution has been enabled to enter upon ethnological investigations in China. This work has been intrusted to Dr. Berthold Laufer. Two collections are the result of the first year's work of this expedition, one of which has been received and the other is on its way to New York. The undertaking is to continue for three years, and will furnish us with abun-

dant material for illustrating the essential features of the life of the Chinese people.

*Explorations in New Jersey.*—The exploration of the Delaware Valley, provided for by Dr. F. E. Hyde, has been continued by Mr. Ernest Volk, as in previous years, and many important facts relating to the occupation of the region about Trenton in very early times and bearing upon the evidence of pre-Glacial man in America have been obtained. On account of extensive excavations now being made by the Pennsylvania Railroad Co., exceptional opportunities for the further investigation of the Trenton gravel deposits are offered, and the Museum is to be congratulated upon the fact that Dr. Hyde has provided for the continuation of the research through the coming year. The vast amount of material obtained in the Delaware valley by Mr. Volk, during his long-continued explorations for the Museum, has been unpacked and assorted by him and arranged in trays according to the localities and special excavations, but it has not been catalogued, on account of the importance of having the explorer himself attend to the work.

*Local Explorations.*—During the summer, the work in local archæology was continued, and rock-shelters near Westchester were explored from which much of importance relating to early Indian life was learned. Most of the season was devoted to the study of several village sites and shell heaps on Long Island, especially to some near Oyster Bay and Glen Cove. At the latter place the work was greatly facilitated by the active coöperation of Mr. G. J. Price, on whose family estate many of the researches were made. The opportunities for investigations of this kind are rapidly disappearing, and every effort should be put forth to secure all available material, in order to give an accurate picture of the Indian life of the coast at the time of the arrival of our own race. Additional contributions are needed for this work.

In the North hall the whole Emmons Alaskan collection was re-arranged according to tribes and the material con-

siderably condensed, changes which were made necessary by the important additions from the Jesup North Pacific expedition. The accumulation of additional material from the North American Indians made it necessary to remove part of the Lumholtz Mexican material to the temporary "Missionary Hall" in the southeast corner of the second floor. The Pueblo pottery was moved to the second floor, and the cases formerly occupied by it have been devoted to southwestern basketry. All the South Sea material, furthermore, has been removed from the West hall and replaced by Eskimo material and by the rest of the Laufer material from the Amur river. The detailed re-arrangement of the North hall is still in progress.

The West and Southwest halls on the second floor have been opened to the public. The former contains at present a portion of the material sent from China by Dr. Laufer, the Pueblo pottery, the Briggs collection of baskets and a small portion of the extensive collections made in the Southwest by the Hyde expedition. Especially noteworthy in the last-named collections, is the display of baskets and other material from the graves of the "Basket Makers" of southeastern Utah. The Southwest hall contains an exhibit illustrating in part the archæology of the United States. Among its special features there is a representation of the culture of tribes once inhabiting the Saginaw Valley, Michigan. This collection was made by Mr. Harlan I. Smith, the Assistant Curator of the department, during his residence in the region previous to his connection with this institution, and it has been presented to the Museum by him. He has arranged the collection with illustrative photographs and maps, and has prepared a descriptive guide leaflet with numerous illustrations. All of the South American archæological collections have now been placed on exhibition, except the series from Santa Marta, Colombia, recently received from Mr. F. C. Nicholas. They occupy the West Gallery hall. The acquisition of the Gaffron collection, recently purchased by the Trustees, has greatly increased the importance of the Peruvian exhibit. The Garces collection of gold and silver objects from the Lake

Titicaca region, a gift from Mr. J. Pierpont Morgan in a former year, and a number of other similar objects, none of which have been exhibited before, have been arranged in a special case in this hall. The large additions to the South American collection during the past two years makes necessary the re-arrangement of many of the cases before their final labeling can be accomplished.

In order to further the North American research work, an agreement has been made with the Bureau of Ethnology in Washington, by means of which the Bureau contributes certain sums for linguistic research, while the Museum pays for ethnological field work, a plan of coöperation which is proving very satisfactory. During the last year two expeditions were in the field working on this basis, Mr. H. H. St. Clair, Jr., collecting among the Shoshone of Wyoming and Oregon, and Mr. William Jones among the Sac and Fox Indians of Nebraska. Both these gentlemen brought back valuable collections.

Work among the caves and old village sites of British Columbia, begun in a modest way during the year, has yielded very interesting results and should be continued.

During the summer a series of casts was made at the Indian school at Carlisle, Pa., supplementing our collection illustrating the physiology and ethnology of the North American Indians.

In connection with the North American<sup>s</sup> Archæological exhibit in the Southwest hall, there have been arranged two cases, illustrating the artifacts of the Iroquois and Algonkin Indians of New York State, and in other cases are exhibited the collections from village sites, rock shelters, shell heaps and various places in and near the city of New York, which had been explored under the direction of the department. Furthermore, a model of one of the rock-shelters explored in Westchester has been made in order to illustrate one phase in the life of the New York Indians. To make this exhibit still more instructive, there has been prepared a model showing the layers of accumulated material in the shelter, near



which have been placed the objects found in the upper and lower deposits.

The human skulls which have been obtained in connection with the Hyde expedition in the southwest, and the Villard and other expeditions in Peru have been arranged geographically and studied by Dr. Hrdlička, who has prepared for publication an elaborate memoir on the physical characters of the peoples of the southwest.

Special attention is called to the Ainu collection secured by Professor Bashford Dean of Columbia University during his recent visit to Japan. By the kindness of Arthur Curtiss James, Esq., to whom we are indebted already for much Ainu material, this collection has been added to our series illustrating the culture of that interesting tribe.

DEPARTMENT OF ENTOMOLOGY.—The Curator of Entomology reports that the arrangement of the exhibition collection of Beetles has progressed considerably during the year, and that it is now fairly well advanced. Enlarged drawings of some of the minute forms have been made and placed in the cases near the specimens. Such illustrations enable the visitor to form an idea of the nature of objects otherwise too small for exhibition. In March the Museum issued a Memoir on the Sesiidæ, or Clearwinged Moths, of America north of Mexico, by the Curator. The monograph consists of one hundred thirty-eight pages of text, with twenty-four text cuts and eight plates.

The Very Reverend Eugene A. Hoffman has continued his generous gifts to the department by donating more than one thousand butterflies. These are being mounted on plaster of Paris exhibition tablets, ready for display as soon as cases have been provided for their reception. This calls attention to the fact that there are already more than two thousand such specimens on hand which cannot be exhibited for lack of case room. During the autumn the Curator spent his vacation in the Black Mountains of North Carolina continuing his investigations of the previous year. This expedition added to the collections of the department more than three thousand

specimens, including many new as well as many very rare species. Mr. Beutenmüller has in preparation a monograph on "The Insect Fauna of the Black Mountains, North Carolina." On account of certain peculiarities, the study of the insect fauna of this restricted region is of high importance to science, and it is to be hoped that some friend of the Museum will enable him to carry his investigations in the region to satisfactory completion. Field work in the vicinity of New York City has been done by the Curator and his assistant, Mr. C. Schæffer, and has added many specimens of several species to the local collection.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The chief event of the year was the establishment of a fund by one of our Trustees, Mr. William C. Whitney, for obtaining material to illustrate the evolution of the Horse. This enabled the Curator to send two expeditions into the field—one to eastern Colorado and one to Texas, both of which were highly successful. The Colorado party found a superb skeleton of the three-toed marsh-living Horse, *Anchitherium*, besides portions of several skeletons of the plains-living Horses and Asses. The Texas party discovered a rich quarry of Horse remains of more modern type, including the ancestor of the South American *Hippidium*. The Curator hopes to secure every step in the wonderful evolution of the Horse from the small ancestor, less than four hands high, from the lower Eocene, to the larger Horses of the lower Pleistocene, which were finally destroyed during the Ice Age. A skilled osteological preparator also has been engaged upon an exhibit of the varieties of the modern Horse produced through the agency of human selection; such as the Shetland, the Percheron and the various race horses. Together with this series are preparations of the skull illustrating the growth of the teeth and of the limbs and other parts illustrating the entire mechanics of the skeleton. Mr. Charles R. Knight has painted a set of water colors of the living types of Asiatic and African horses. Altogether this exhibit promises to be one of the most popular and instructive in the Museum.

Although the expeditions were planned to secure fossil horses, incidentally several splendid specimens of other animals were discovered. Among them was the shell of a great Glyptodont, or armored Edentate, the first discovered in North America. Numerous remains of Camels, Rhinoceroses and the skull and skeleton of the great fossil Dog, *Dinocyon*, were also found.

The exploration for Dinosaurs, begun by the Museum in 1897, was continued in western Colorado, in the Black Hills region of South Dakota and in the Laramie Plains of central Wyoming. At the last point, the Bone Cabin Quarry, famous for the great discoveries that have been made there, was worked for a fourth season, yielding a number of very rare Dinosaur skulls more or less complete. In this same region another quarry, together with a quantity of very large Dinosaur bones, was purchased. The car-load of material thus obtained was loaded and transported directly to the East through the courtesy of Messrs. E. H. Harriman and J. P. Morgan.

The department has been enriched not only by the expeditions, but also by exchanges with foreign museums. Chief among these is the superb specimen of an Ichthyosaur, or Fish-lizard, presented by the Royal Museum of Stuttgart through Prof. Eberhard Fraas. It is remarkable as containing seven young Ichthyosaurs. Two noteworthy purchases have been made: The first, a magnificent Cretaceous fish belonging to the genus *Portheus*, allied to *Chirocentrus*, now found only in the Indian Ocean; and the second, a skull of a southern variety of the mammoth, *Elephas imperator*, with a pair of large tusks more than thirteen feet in length.

Reproductions of restorations made in the department have been sent to museums in various parts of the world, and new series of casts have been prepared. Among these the casts illustrating the evolution of the feet of the Horse and the Camel are of special note.

The scientific work of the Department has continued, several bulletins by the Curator and his associates and a valuable memoir on the fossil mammals of eastern Colorado having been published.

Professor Osborn not only contributed largely to the maintenance of field expeditions, as shown in the Treasurer's Report, but also spent his entire salary in promoting the work of his department.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—This department\* was established in January, 1901, with Professor Hermon C. Bumpus, as Curator. George H. Sherwood, A. M., assumed the duties of Assistant Curator in the following November. The material which has come into its care was previously under the charge of Professor R. P. Whitfield, Curator of Geology and Invertebrate Palæontology, whose energy and skill have been largely instrumental in assembling a collection in this branch of natural science which is of acknowledged credit to our institution. The series of corals is particularly fine, ranking with the best in the world. The West Indian forms were almost all obtained by Professor Whitfield during his vacations. The most important accession to the department during the past year was a remarkable series of siliceous sponges which was purchased for the Museum by Professor Bashford Dean of Columbia University, during his recent visit to the Orient. The collection comprises thirty-seven specimens, representing twenty-six species distributed among sixteen genera. Among the specimens are several fine examples of the beautiful "Venus' Flower Basket" and related forms.

This Department has been given the charge of reptiles, batrachians and fishes, in addition to the invertebrate animals, and the Curator reports that much work has been done in the line of overhauling the large amount of material which had accumulated in the preceding thirty years. For lack of available exhibition space, almost all the specimens in these three great branches of Natural History have been relegated to storage, until the hall in the southeast corner of the ground floor can be fitted up with suitable cases for their reception and exhibition. The principal additions to the collection of

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\* Insects are under the care of Wm. Beutenmüller, Curator of Entomology, and molluscs are retained by L. P. Gratacap, Curator of Mineralogy.

reptiles and batrachians have come from the New York Zoölogical Society, the Central Park Maneric and the New York Aquarium.

The collection of fishes on exhibition in the Museum is very small, and consists mainly of painted wax and plaster models, resembling but slightly the fish in nature. All known methods of preserving and exhibiting fishes are unsatisfactory, but experiments for the purpose of devising some suitable means of presenting them in their natural environment and natural colors are under way, and we are warranted in saying that progress toward this desirable end has been made. Popular interest in the fishes is great, and a large exhibit of them is needed.

The acquisitions to this section of the Department have been considerable during the year. Through the courtesy of the Honorable George M. Bowers, the United States Commissioner of Fish and Fisheries, we have received a fine collection of Puerto Rican fishes, collected by the United States Fish Commission Steamer "Fish Hawk" during the investigation of the fisheries of Puerto Rico by the Government, in 1899. There are nearly two hundred specimens in the collection, representing eighty-four species, and all are in a good state of preservation. From the Jesup North Pacific expedition there have been received one hundred forty-three fishes and several reptiles and invertebrates, which were collected by Mr. N. G. Buxton in Vladivostok Harbor and Lake Khanka, in eastern Siberia. Since the fauna of that region is little known, doubtless several new species will be found in the collection. One of the most striking needs of the various sections of this department is a series of local collections of familiar forms, arranged in groups to correspond with those which are used to such good effect in several other parts of the Museum.

DEPARTMENT OF CONCHOLOGY.—At the beginning of the year, when the departments, which, for many years, had been under the care of the Curator of Geology, were subdivided, the collection of shells was removed to the charge of Mr.

Gratacap, the Curator of Mineralogy. He reports that, on account of the devotion of the central hall on the fourth floor of the Museum to the Bement collection of minerals, the shells formerly exhibited there were removed to the fifth floor, and most of them were placed in drawers for storage. The present condition of the conchological collection emphasizes in very marked manner the need of a much larger hall for its appropriate exhibition. The famous Binney and Bland collection of American land shells, for instance, which contains many type specimens, is necessarily kept in storage drawers from lack of space for displaying it.

The work done on the shell collection has included the preparation and placing of more than 2,000 individual labels in addition to maps, photographs and diagrams. The experiment is being tried of placing on exhibition aquaria showing some of the more familiar molluscs in their natural surroundings. The popularity of this feature of the Hall of Conchology is marked, and indicates the desirability of increasing the number of such exhibits. On account of the number of type specimens which it contains, the Binney and Bland collection of land shells was made the subject of an extended article by the Curator, which was published in the *Museum Bulletin*, with five maps showing distribution.

The department is indebted to Mr. Frederick A. Constable for a valuable accession to its collections, consisting of about 18,000 specimens, representing about 4,000 species. The same gentleman has given to the Library a large number of much-needed works on conchology.

NORTH AMERICAN FORESTRY.—The chief event in the history of the Jesup collection of North American Forestry was the addition of twenty-one water-color paintings by Mrs. C. S. Sargent to the series illustrative of leaves, flowers and fruits, which has been prepared at the expense of your President.

PUBLICATIONS.—In the line of publications the scientific staff of the Museum has been very active during the past year

and the amount of matter issued was greater than during any other like period in our history. Of the octavo *Bulletin* there were published Part IV of Vol. XI, with 160 pages of text, comprising the catalogue of type and figured fossils noticed at greater length in another part of this Report; Vol. XIV, consisting of 422 pages, with 63 text figures and 46 plates, and Part I of Vol. XV, consisting of 370 pages, with 172 text figures and 4 plates, descriptive of the Eskimo of Baffin Land and Hudson Bay. Six parts of the quarto *Memoirs*, belonging to different volumes, were put through the press, though three of them were not actually issued until a few days after the end of the year, and therefore bear date of January, 1902. These parts contain in all 766 pages of text, and are illustrated with 82 text figures and 49 plates.

The publication of *The American Museum Journal*, which was begun in April, 1900, has been continued, and may now be considered to have passed the experimental stage. Mr. W. K. Gregory, who served the periodical as managing editor during the early and trying portion of its career, desiring to take up work exclusively in the line of vertebrate palæontology, Dr. E. O. Hovey was asked to assume the editorship of the *Journal* in September, with Messrs. Chapman, Gratacap and Gregory as an advisory board. Certain changes were instituted in the publication, the principal of which was the addition of an illustrated supplement to each number in the shape of a popular guide leaflet to some exhibit or group of exhibits in the Museum. Before the end of the year two numbers were issued, one with a guide leaflet on the Bird Rock Group, by Frank M. Chapman, and one with a similar description of the Saginaw Valley collection in the Anthropological Department, by Harlan I. Smith. These brochures evidently meet a popular want, for there is constant demand for them on the part of visitors.

The distribution of the articles in the *Bulletin* and the *Memoirs*, according to the departments from which they have emanated, is as follows:

## DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

*Bulletin*, Volume XI.

R. P. Whitfield, assisted by E. O. Hovey. "Catalogue of the Types and Figured Specimens in the Palæontological Collections of the Geological Department of the American Museum of Natural History." (Pages 357-500, with title-page, table of contents, preface, etc., for the whole volume.)

## Volume XIV.

R. P. Whitfield. "Notice of a New Sponge from Bermuda." (Pages 47-50, plates i-v.)

R. P. Whitfield. "Note on a Very Fine Example of *Helicoceras stevensoni* preserving the Outer Chamber." (Pages 219-220, plates xxix and xxx.)

R. P. Whitfield. "Notice of a Remarkable Case of Combination between Two Different Genera of Living Corals." (Pages 221-222, plates xxxi and xxxii.)

R. P. Whitfield. "Some Observations on Corals from the Bahamas, with Description of a New Species." (Pages 223-224, plates xxxiii and xxxiv.)

## DEPARTMENT OF MAMMALOLOGY AND ORNITHOLOGY.

*Bulletin*, Volume XIV.

J. A. Allen. "Description of Two New Species of South American Muridæ." (Pages 39-40.)

J. A. Allen. "On a Further Collection of Mammals from Southeastern Peru, collected by Mr. H. H. Keays, with Descriptions of New Species." (Pages 41-46.)

J. A. Allen. "The Musk-Oxen of Arctic America and Greenland." (Pages 69-86, plates xii-xvii and 7 text figures.)

J. A. Allen. "Description of a New Caribou from Kenai Peninsula, Alaska." (Pages 143-148, with 4 text figures.)

J. A. Allen. "A Preliminary Study of the North American Opossums of the Genus *Didelphys*." (Pages 149-188, plates xxii-xxv.)

J. A. Allen. "Descriptions of Two New Opossums of the Genus *Metachirus*." (Pages 213-218.)

J. A. Allen. "The Generic Names of the Mephitinæ." (Pages 325-334.)

J. A. Allen. "New South American Muridæ and a New *Metachirus*." (Pages 405-412.)

Frank M. Chapman. "A New Race of the Great Blue Heron, with Remarks on the Status and Range of *Ardea wardi*." (Pages 87-90.)

Frank M. Chapman. "Descriptions of Six Apparently New Birds from Peru." (Pages 225-228.)

Frank M. Chapman. "A Revision of the Genus *Capromys*." (Pages 313-324, plates xxxix and xl and 3 text figures.)



DEPARTMENT OF ANTHROPOLOGY.

*Bulletin*, Volume XIV.

Franz Boas. "A Bronze Figurine from British Columbia." (Pages 51-52, plate vi.)

Franz Boas. "A. J. Stone's Measurements of Natives of the Northwest Territories." (Pages 53-63, plates vii-xi.)

Volume XV.

Franz Boas. "The Eskimo of Baffin Land and Hudson Bay." (Pages 1-370, plates i-iv and 172 text figures.)

*Memoirs*, Volume IV.

Harlan I. Smith and Gerard Fowke. "Cairns of British Columbia and Washington." (Pages 55-75, plates i-iv.)

Volume IV.

Livingston Farrand, assisted by W. S. Kahnweiler. "Traditions of the Quinault Indians." (Pages 77-132.)

Volume V.

Franz Boas and George Hunt. "Kwakiutl Texts." (Pages 1-270.)

Volume VII.

Berthold Laufer. "The Decorative Art of the Amur Tribes." (Pages 1-86, plates i-xxxiii and 24 text figures.)

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

*Bulletin*, Volume XIV.

Henry F. Osborn and Walter Granger. "Fore and Hind Limbs of Sauro-poda, from the Bone Cabin Quarry." (Pages 199-203, with 6 text figures.)

W. D. Matthew. "Additional Observations on the Creodonta." (Pages 1-38, with 17 text figures.)

J. W. Gidley. "Tooth Characters and Revision of the Genus *Equus*." (Pages 91-142, plates xviii-xxi and 27 text figures.)

F. B. Loomis. "On Jurassic Stratigraphy in Southeastern Wyoming." (Pages 189-193, plates xxvi and xxvii.)

*Memoirs*, Volume I.

W. D. Matthew. "Fossil Mammals of the Tertiary of Northeastern Colorado." (Pages 353-446, plates xxxvii-xxxix and 34 text cuts.)

## DEPARTMENT OF ENTOMOLOGY.

*Bulletin*, Volume XIV.

William Beutenmüller. "Descriptive Catalogue of the Noctuidæ found within fifty miles of New York City." (Pages 229-312, plates xxxv-xxxviii and 1 text figure.)

Charles Schæffer. "Synopsis of the Species of *Trechus*, with the description of a New Species." (Pages 209-212, plate xxviii.)

*Memoirs*, Volume I.

William Beutenmüller. "Monograph of the Sesiidæ of America, North of Mexico." (Pages 215-352, plates xxix-xxxvi and 24 text cuts.)

## DEPARTMENT OF CONCHOLOGY.

*Bulletin*, Volume XIV.

L. P. Gratacap. "Catalogue of the Binney and Bland Collection of the Terrestrial Air-Breathing Mollusks of the United States and Territories in the American Museum of Natural History, with Enumeration of Types and Figured Specimens, and Supplementary Notes." (Pages 335-404, plates xli-xlvi.)

LIBRARY.—The history of the library for the past year has been one of constant growth. The number of individual donors has increased, and there have been more accessions from the individuals and institutions on our exchange list than during the preceding year. The principal accessions have come from General Egbert L. Viele and Mr. Frederick A. Constable, the volumes from the latter pertaining specially to conchology. The total number of volumes, parts and pamphlets received is equivalent to 2,619 bound volumes, making the total number of volumes or their equivalent in the library at the present time 55,308. The books have been very extensively used by members and visitors, as well as by our scientific staff, but there have been calls for hundreds of books not on our shelves, which, however, should be in our possession. The branches of natural science which need especial development in the line of books and periodicals are: Forestry, Herpetology, Anthropology, Invertebrate Zoölogy, Mineralogy and Mining. A considerable sum, furthermore, could be used to advantage in the purchase of missing numbers and parts of scientific periodicals.

Following is a list of the most important individual accessions during the history of the library:

The John C. Jay Conchological Library. Donated in 1874 by Miss Catharine L. Wolfe, and greatly increased in later years by the donor.

The Carson Brevoort Library on Fishes and General Zoölogy. Deposited in 1879 and donated in 1881 by Robert L. Stuart.

The Jewett Library on Voyages and Travels. Donated in 1886 by Hugh J. Jewett.

The R. P. Whitfield Library on Geology and Palæontology. Purchased in 1886 by the Trustees.

The D. G. Elliot Ornithological Library. Donated in 1887 by Cornelius Vanderbilt and Percy R. Pyne.

The S. Lowell Elliot Library on Entomology, History, etc. Donated in 1891 by Mrs. M. Schuyler Elliot.

The Cotheal Library. Donated in 1892 by Alexander I. Cotheal.

The Harry Edwards Library on Entomology. Purchased in 1892 by the Trustees.

The Robert Halsted Library. Donated in 1897 by Miss Laura P. Halsted.

The Jules Marcou Library on Geology and related subjects. Donated in 1898 by Philippe and John B. Marcou.

The Viele Library. Donated in 1900 and increased in 1901 by Gen. Egbert L. Viele, U. S. A.

The Constable Library. Donated in 1901 by Frederick A. Constable.

S. P. Avery, Esq., furthermore, has been a most liberal benefactor to the Library during the past ten years.

## LECTURES AND CONVENTIONS.

DEPARTMENT OF PUBLIC INSTRUCTION.—The regular courses of Lectures to Teachers, which are given by Professor Albert S. Bickmore under the terms of a contract with the State Superintendent of Public Instruction, have been continued during the year, with a marked increase of attendance, made possible by the opening of the new lecture hall. By request of the Trustees, Professor Bickmore has given two courses of four lectures each to the members of the Museum and their friends, and four lectures on legal holidays.

*City Board of Education.*—Even the greater accommodations afforded by the new auditorium, however, have not been sufficient to seat all the persons desiring to attend the free lectures given under the auspices of the Board of Education. In the fall, therefore, the Board decided to give, in coöperation with the Museum, a course of lectures on Saturday evenings, in addition to the regular Tuesday evening course. The Saturday evening lectures have been of a more scientific character than those given on Tuesday evenings. The total number of lectures in the Museum provided by the city was thirty-seven.

Other lectures have been given in the Museum by arrangement with Columbia University and the Linnæan Society of New York.

The annual convention of the American Ornithologists' Union was held in the halls of the Museum from the 12th to the 14th of November. The national conference of the Audubon Societies of America was held here on November 14, and many regular meetings of the Linnæan Society of New York, the New York Entomological Society and the New York Mineralogical Club have been held in the Reading Room of the Library and elsewhere in the Museum building. Arrangements have now been perfected for fitting up a small meeting room capable of seating about one hundred and fifty persons and adapted to the needs of such conventions.

In October, 1902, the International Congress of Americanists will hold its thirteenth session at the Museum as our guest.

LECTURES TO THE TEACHERS OF THE PUBLIC SCHOOLS.

BY PROF. ALBERT S. BICKMORE.

*Winter and Spring Course, 1901.*

- January 19, 26.—Paris—The Old City and the South Bank of the Seine.  
February 2, 9.—Paris—The North Bank of the Seine and the Louvre.  
“ 16, 23.—Paris—Fontainebleau, Chantilly and Versailles.  
March 2, 9.—South America—Brazil.  
“ 16, 23.—South America—Chili.  
“ 30, April 6.—South America—Peru.

*Autumn and Winter Course, 1901.*

- October 26, November 2.—The Pan-American Exposition of 1901.  
November 9, 16.—London—The “City” and the Thames.  
“ 23, 30.—London—Its Museums and Galleries.  
December 7, 14.—London—Its Environs.

*Holiday Course, 1901.*

- New Year's Day.—The Paris Exposition of 1900—The Street of Nations and the Trocadero.  
Washington's Birthday.—Paris—The Banks of the Seine.  
Thanksgiving Day.—The Pan-American Exposition of 1901.  
Christmas Day.—London—The “City” and the Thames.

TO MEMBERS OF THE MUSEUM.

BY PROFESSOR ALBERT S. BICKMORE.

*Spring Course, 1901.*

- March 7.—Paris—The Banks of the Seine.  
“ 14.—Paris—Fontainebleau, Chantilly and Versailles.  
“ 21.—South America—Chili.  
“ 28.—South America—Peru.

*Autumn and Winter Course, 1901.*

- November 21.—The Pan-American Exposition of 1901.  
December 5.—London—The “City” and the Thames.  
“ 12.—London—Its Museums and Galleries.  
“ 19.—London—Its Environs.  
November 26.—(Members' Day)—The Pan-American Exposition of 1901.



March	5.—From the Monumental Entrance to the Bridge of Alexander III. The first of a course of three lectures on the Paris Exposition.....	Prof. Wm. H. Goodyear
“	12.—From the Bridge of Alexander III to the Eiffel Tower.	Prof. Wm. H. Goodyear
“	19.—From the Eiffel Tower to the Trocadero.	Prof. Wm. H. Goodyear
“	26.—The Passion Play of 1900.....	Alfred J. Talley
April	2.—The Pan-American Exposition.....	Walter P. Terry
“	9.—The Phillipines.....	Peter MacQueen
“	16.—Spain.....	John C. Bowker
“	23.—Campaigning in South Africa.....	Peter MacQueen
“	30.—Life in Palestine. Illustrated by songs and costumes.	Dr. James Rosedale

*Autumn Courses.*

Tuesday evenings.

October	8.—Russia.....	Peter MacQueen
“	15.—Scotland and Burns.....	Peter MacQueen
“	22.—The Passion Play.....	John C. Bowker
“	29.—A Tramp Through Switzerland.....	E. C. Chorley
November	5.—Saunterings in Merrie England.....	Thomas Edw. Potterton
“	12.—The American in Holland.....	Dr. Wm. E. Griffis
“	19.—The Castle-Bordered Rhine.....	Thomas Edw. Potterton
“	26.—Imperial Berlin and other German Cities..	Prof. H. E. Northrop
December	3.—Constantinople.....	Jesse L. Hurlbut
“	10.—Rome.....	Wm. Freeland
“	17.—Cities of the Baltic.....	G. R. Hawes

Saturday evenings.

Six lectures on Astronomy by Prof. Robert W. Prentiss.

October	19.—The Sun: Its Phenomena.
“	26.—The Sun: Spectrum, Analysis, Light and Heat.
November	2.—The Moon: Its Appearance, Motions, Scenery and Physical Condition.
“	9.—The Planet Mars: Is it Inhabited?
“	16.—The Planets: Their Telescopic Appearance and Physical Condition.
“	23.—Comets and Meteors: Their Mutual Relations.

Three lectures on Nature Study, by Edward F. Bigelow.

November	30.—Journeys about Home Roadsides, Fields and Forests.
December	7.—Travels in a Swamp.
“	14.—Haunts of Nature.

On examining the Treasurer's report, to be found on pages 41 to 47, inclusive, you will not fail to note the very large and gratifying increase in the subscriptions for special expeditions and for the increase of the collections in other ways.

The increase, too, in the list of annual and life members is very encouraging to those who have the interests of the Museum at heart. We, nevertheless, need increased funds. Our Museum, in coöperation with the public schools, has become an important educational factor in the community. It is a place of recreation for thousands, who find an instructive value in the exhibition and lecture halls. The work of its scientific staff, both at home and in the field, is a credit to the city and a satisfaction to those who have felt the pleasure of personally assisting in the furtherance of a great enterprise.

In closing this, my twenty-first annual report, I desire to record my appreciation of the continuation of the cordial and substantial support given me by my colleagues on the Board of Trustees; of the coöperation of the city officials at the points where the Museum has come in contact with the government of the Borough of Manhattan, and of the efficient service rendered by the scientific and administrative staff of the Museum.

MORRIS K. JESUP,  
*President.*



# TREASURER'S REPORT.

## PERMANENT ENDOWMENTS.

General Fund.....	\$413,000 00
JOHN B. TREVOR Fund.....	10,000 00
JOSIAH M. FISKE Fund.....	10,000 00
	<u>\$433,000 00</u>

## SPECIAL FUNDS.

	Receipts.	Disbursements.
MORRIS K. JESUP,		
Jesup North Pacific Expedition.....	\$4,484 09	\$4,484 09
Jesup Collection North American Woods.....	1,150 25	1,150 25
Special Fund.....	4,000 00	3,000 00
Mrs. MORRIS K. JESUP,		
Publications, North American Indians.....	763 19	763 19
B. T. BABBITT HYDE and FRED. E. HYDE, Jr.,		
Hyde Expedition—Explorations.....	4,900 00	4,900 00
Publications.....	1,000 00.	\$41 00
Dr. FREDERICK E. HYDE,		
Delaware Valley Research.....	975 00	975 00
JOSEPH F. LOUBAT,		
Mexican Explorations.....	4,000 00	4,000 00
WM. C. WHITNEY,		
Fund for Collection of Fossil Horses.....	15,000 00	4,291 37
GEORGE FOSTER PEABODY,		
Briggs Collection, Indian Basketry.....	5,000 00	5,000 00
Mrs. C. P. HUNTINGTON,		
Preparation of Specimens, Big Trees.....	1,400 00	\$52 73
ARCHER M. HUNTINGTON,		
North American Indians—Publication.....	1,000 00	\$55 17
A. C. JAMES,		
Ainu Collection.....	250 00	250 00
JOHN L. CADWALADER,		
Preparation of Bird Groups.....	1,500 00	721 18
Mrs. ESTHER HERRMAN and others,		
New York State Archeological Research.....	488 93	428 93
East Asiatic Research.....	18,349 75	5,000 00
A. J. STONE EXPEDITION.....	7,075 58	3,698 59
HENRY F. OSBORN,		
Field Work, Dep't Vertebrate Palæontology....	2,000 00	2,000 00
	<u>\$73,336 79</u>	<u>\$43,811 50</u>

*MAINTENANCE.*

RECEIPTS.

Department of Parks.....		\$130,000 00
Transferred from Endowment Account to balance cash deficit in Maintenance Account :		
For year ending December 31, 1900.....	\$9,110 18	
For year ending December 31, 1901.....	17,773 75	26,883 93
		<hr/>
		\$156,883 93
		<hr/> <hr/>

Examined                    { GEORGE G. HAVEN, } *Auditing*  
and approved. } ANSON W. HARD. } *Committee.*

Correct.—E. L. MASSETT, *Auditor.*

*MAINTENANCE.*

DISBURSEMENTS.

January 1, 1901. Cash deficit.....		\$9,110 18
Printing .....	\$255 21	
Coal.....	10,646 62	
Labels.....	1,766 83	
Stationery.....	934 03	
Annual Report.....	196 70	
Supplies .....	4,554 88	
Salaries.....	62,039 85	
Fixtures .....	2,693 01	
Labor .....	56,291 20	
General Expense.....	4,098 37	
Postage.....	286 34	
Repairs.....	3,536 50	
Expressage.....	474 21	147,773 75
		<hr/>
		\$156,883 93
		<hr/>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *December 31, 1901.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

Cash on hand, January 1, 1901.....	\$15,354 11
State Superintendent of Public Instruction.....	12,000 00
Annual Members.....	9,910 00
Interest on Invested Funds.....	20,280 00
Special Loan.....	3,000 00
Trustees:	
Wm. Rockefeller.....	\$4,000 00
D. Willis James.....	6,000 00
Wm. E. Dodge.....	4,500 00
J. Pierpont Morgan.....	4,000 00
D. O. Mills.....	3,000 00
H. O. Havemeyer.....	3,000 00
Charles Lanier.....	2,000 00
Adrian Iselin.....	2,000 00
Percy R. Pyne.....	2,000 00
Dr. Fred. E. Hyde.....	1,250 00
Morris K. Jesup.....	1,000 00
A. D. Juilliard.....	1,000 00
Archibald Rogers.....	250 00
Anson W. Hard.....	250 00
" Cash ".....	250 00
Wm. C. Whitney.....	3,000 00
	<u>37,500 00</u>
John T. Terry.....	2,000 00
John D. Rockefeller.....	5,000 00
Mrs. Frederick F. Thompson.....	1,000 00
George S. Bowdoin.....	1,000 00
Wm. L. Bull.....	500 00
Life Members:	
David L. Bruce-Brown.....	\$100 00
Thomas C. Bushnell.....	100 00
George Blumenthal.....	100 00
Miss Georgette T. A. Collier.....	100 00
Dr. Louis Haupt.....	100 00
V. H. Jackson, M.D., D.D.S.....	100 00
John B. McDonald.....	100 00
George Foster Peabody.....	100 00
W. H. Perkins.....	100 00
W. R. Peters.....	100 00
Jacob Rubino.....	100 00
Silas D. Webb.....	100 00
Mrs. Joseph M. White.....	100 00
Alfred R. Whitney.....	100 00
L. G. Woodhouse.....	100 00
	<u>1,500 00</u>
Morris K. Jesup.....	4,000 00
Morris K. Jesup, Jesup North Pacific Expedition.....	4,484 09
Morris K. Jesup, Jesup Collection North American Woods.....	1,150 25
Mrs. M. K. Jesup, North American Indian Research Publications.....	763 19
Henry F. Osborn, Department of Vertebrate Paleontology.....	2,000 00
B. T. B. and F. E. Hyde, Jr., Hyde Exploration Fund.....	4,900 00
Dr. Fred E. Hyde, Delaware Valley Research Fund.....	975 00
Joseph F. Loubat, Mexican Expedition.....	4,000 00
Wm. C. Whitney, Fossil Horses Collection.....	5,000 00
George Foster Peabody, Briggs Collection of Indian Basketry.....	5,000 00
Mrs. C. P. Huntington Fund.....	1,400 00
Archer M. Huntington Fund, Publications.....	1,000 00
<i>Carried forward</i> .....	<u>\$143,746 64</u>

ENDOWMENT.

DISBURSEMENTS.

Transfer to Maintenance Account to balance deficit of 1900.....		\$9,110 18
Postage.....	\$64 88	
Printing.....	133 44	
Stationery.....	314 89	
General Expense.....	1,422 65	
Bulletin.....	12,267 38	
Annual Report.....	262 80	
Labels.....	59 20	
American Museum Journal.....	1,916 82	
Minerals.....	101 31	
Geology and Invertebrate Palaeontology.....	679 32	
Invertebrate Zoölogy.....	212 05	
Vertebrate Zoölogy.....	9 95	
Mammal Groups.....	66 04	
Bird Groups.....	119 19	
Vertebrate Palaeontology.....	7,233 97	
Anthropology.....	3,548 89	
Ethnic Groups.....	819 74	
Entomology.....	286 10	
Library.....	1,503 12	
Mineralogy.....	400 00	
Department of Public Instruction.....	9,567 52	
Conchology.....	13 69	
Mammalogy and Ornithology.....	2,503 16	
Economic Collection.....	57 31	
Supplies.....	35 65	
Traveling Expense.....	46 66	
Expressage.....	102 12	
Membership Circulars.....	1,084 85	
Interest on Loans: 1900, \$10,000; 1901, \$3,000....	1,038 19	
Archer M. Huntington Fund.....	855 17	
Hyde Exploration Fund.....	4,900 00	
Jesup North Pacific Expedition.....	4,484 09	
Publications, North American Indian Research.....	763 19	
North American Indian Research.....	706 79	
Belmar Collection Mexican Antiquities.....	100 00	
Mexican Expedition.....	4,054 60	
Peruvian Expedition.....	2,036 25	
John L. Cadwalader Fund.....	721 18	
Gaffron Peruvian Collection.....	3,200 16	
Yakut Collection.....	500 00	
Ethnographical Album.....	298 90	
Wm. C. Whitney Fund, Fossil Horses.....	4,201 37	
N. Y. State Archaeological Research.....	603 93	
Cronau Indian Collection.....	600 00	
Delaware Valley Research.....	975 00	
Dorenburg Collection Mexican Antiquities.....	1,288 58	
Mrs. C. P. Huntington Fund.....	852 73	
Jesup Collection North American Woods.....	1,150 25	
<i>Carried forward</i> .....	\$78,403 08	\$9,110 18

ENDOWMENT—Continued.

RECEIPTS.

<i>Brought forward</i> .....	\$143,746 64
John L. Cadwalader, Bird Groups.....	1,500 00
B. T. B. and F. E. Hyde, Jr., Hyde Expedition Publications...	1,000 00
A. C. James, Ainu Collection.....	250 00
N. Y. State Archæological Research.....	488 93
Admission Fees.....	1,856 50
Sale of Publications.....	349 87
Sale of Specimens.....	350 00
Sale of Specimens, Department of Vertebrate Palæontology.....	450 00
Sale of Ethnographical Album.....	34 80
Sale of Guides.....	14 60
Collecting Permits.....	34 00
Freight Rebate.....	453 09
Interest on Credit Balances.....	33 88

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\$150,562 31

Examined            { GEORGE G. HAVEN, } *Auditing*  
 and Approved. { ANSON W. HARD. } *Committee.*

Correct.—E. L. MASSETT, *Auditor.*

in account with CHARLES LANIER, TREASURER.

ENDOWMENT—Continued.

DISBURSEMENTS.

<i>Brought forward</i> .....	\$78,403 08	\$9,110 18
Hyde Expedition Publications.....	841 03	
Briggs Collection Indian Basketry.....	5,015 00	
Heyde Guatemala Collection.....	500 00	
Siberian Expedition.....	3,526 54	
Ainu Collection.....	250 00	
Loan 1900, repaid.....	10,000 00	
Loan 1901, repaid.....	3,000 00	
Interest on Overdrafts.....	103 00	
Tiling Archæology Hall—West Wing.....	3,600 00	
	<hr/>	105,238 65
Transfer to Endowment and Investment Account of the following unexpended balances, December 31, 1901:		
Pampean Collection of Fossils.....	8,000 00	
Wm. C. Whitney Fund.....	708 63	
Mrs. C. P. Huntington Fund.....	547 27	
A. M. Huntington Fund.....	144 83	
Morris K. Jesup.....	400 00	
Hyde Expedition Publication Fund.....	158 97	
John L. Cadwalader Fund.....	778 82	
N. Y. State Archæological Research.....	60 00	
	<hr/>	10,798 32
Transfer to Maintenance Account to balance deficit for 1901.....	17,773 75	
Cash on hand December 31, 1901, transferred to General Account.....	7,641 21	25,414 96
		<hr/>
		\$150,562 31

CHARLES LANIER, *Treasurer*.

[E. & O. E.]

NEW YORK, *December 31, 1901.*









	Volumes	Parts and Numbers	Pamphlets
Georgia Experiment Station, Experiment, Ga.....		31	
Idaho Agricultural Experiment Station, Moscow, Idaho.....	1	15	
Chicago Public Library, Illinois.....	1		
Newberry Library, Chicago, Illinois.....		1	
Psychic Research Co., Chicago, Illinois.....		1	
Illinois Agricultural Experiment Station, Urbana, Ill.....	2	4	13
Board of State Charities of Indiana, Indianapolis, Ind.....	1	4	
Purdue University, Lafayette, Indiana.....		51	
Iowa Board of Railroad Commissioners, Des Moines, Ia.....	1		
Kansas University Geological Survey, Lawrence, Kan.....	1	1	1
Kentucky Agricultural Experiment Station, Lexington, Ky....		56	
Louisiana State Experiment Station, Baton Rouge, La.....		48	
Maine Agricultural Experiment Station, Orono, Me.....	2	40	
Maryland Agricultural Experiment Station, College Park, Md.	2	52	
Massachusetts Agricultural Experiment Station, Amherst, Mass.	5	7	
Phillips Academy, Andover, Mass.....	1		
Library Bulletin Co., Boston, Mass.....		5	
Massachusetts Horticultural Society, Boston, Mass.....	1	1	1
Archaeological Institute of America, Norwood, Mass.....		2	
City Library Association, Springfield, Mass.....		2	
Springfield Public Library, Springfield, Mass.....		2	
Michigan State Agricultural College Experiment Station, Agricultural College, Mich.....	9	22	
Michigan Bureau of Labor and Industrial Statistics, Lansing, Mich.....	1		
Michigan Department of State, Lansing, Mich.....	1		
Michigan State Treasurer, Lansing, Mich.....	2		
University of Minnesota Agricultural Experiment Station, St. Anthony Park, Minn.....	1	3	
Webb Publishing Co., St. Anthony Park, Minn.....		11	
Noyes Brost Cutler, St. Paul, Minn.....			1
Mississippi Agricultural College and Experiment Station, Agricultural College, Miss.....	11		
Missouri Agricultural College Experiment Station, Columbia, Mo.....	3	35	
Missouri State Horticultural Society, Jefferson City, Mo.....	1		
Washington University, St. Louis, Mo.....	1		
Montana Agricultural Experiment Station, Bozeman, Mont....		2	
Montana State Library, Helena, Mont.....	1		
University of Nebraska Agricultural Experiment Station, Lincoln, Neb.....		32	
New Hampshire College Agricultural Experiment Station, Durham, N. H.....	1	17	
New Jersey Free Public Library, Newark, N. J.....		3	
New Jersey Agricultural College Experiment Station, New Brunswick, N. J.....	1	8	
New Mexico Agricultural Experiment Station, Mesilla Park, N. M.....		22	1
New York State Board of Health, Albany, N. Y.....	2	10	
New York State Commissioner of Excise, Albany, N. Y.....	3		
New York State Department of Labor, Albany, N. Y.....		3	1

	Volumes	Parts and Numbers	Pamphlets
New York State Factory Inspectors, Albany, N. Y. . . . .	1		
New York State Superintendent of Banks, Albany, N. Y. . . . .	1		
New York State Treasurer, Albany, N. Y. . . . .	1		
Grosvenor Free Public Library, Buffalo, N. Y. . . . .			2
Pan-American Exposition, Buffalo, N. Y. . . . .			1
New York Agricultural Experiment Station, Geneva, N. Y. . . . .		44	1
Cornell University Agricultural Experiment Station, Ithaca, N. Y. . . . .		1	
Bausch & Lomb Optical Co., Rochester, N. Y. . . . .		1	
American Society for Prevention of Cruelty to Animals, New York City. . . . .	1	10	
American Water Color Society, New York City. . . . .			1
E. & H. T. Anthony Co., New York City. . . . .		2	
D. Appleton & Co., New York City. . . . .		6	1
The Architectural Record Co., New York City. . . . .		1	
The Auk, New York City. . . . .	1		
Automobile Club, New York City. . . . .		56	
John P. Burkhard Publishing Co., New York City. . . . .		2	
Business Publishing Co., New York City. . . . .		1	
Correspondent's Club of New York, New York City. . . . .			1
Ginn & Co., New York City. . . . .	1		
Hebrew Technical Institute, New York City. . . . .	2		
Henry Holt & Co., New York City. . . . .	2		
Institute of Arts and Sciences, Brooklyn, N. Y. . . . .			1
Library Young Men's Christian Association, New York City. . . . .			1
McClure, Phillips & Co., New York City. . . . .		4	
Macmillan & Co., New York City. . . . .		5	
Merchants' Association of New York, New York City. . . . .		1	1
Munn & Co., New York City. . . . .	1	28	1
New York City Charity Organization Society, New York City. . . . .	1	9	
New York Entomological Society, New York City. . . . .		3	
New York Free Circulating Library, New York City. . . . .	2		
New York Municipal Civil Service Commission, New York City. . . . .	4		
New York Post-Graduate Medical School, New York City. . . . .		12	
New York Scientific Alliance, New York City. . . . .	2	2	
New York State Superintendent of Elections, New York City. . . . .	1		
New York University, New York City. . . . .		2	
Pratt Institute, Brooklyn, New York. . . . .		1	
Siegel, Cooper & Co., New York City. . . . .		10	
Woman's Union Missionary Society, through Miss Doremus, New York City. . . . .	5		3
North Dakota Agricultural Experiment Station, Agricultural College, N. D. . . . .		41	
Cincinnati Museum Association, Cincinnati, Ohio. . . . .			1
Western Reserve Historical Society, Cleveland, Ohio. . . . .	1		
Oklahoma Agricultural Experiment Station, Stillwater, Okla. . . . .	3	38	
Oregon Experiment Station, Corvallis, Oregon. . . . .		42	
Oregon State Board of Horticulture, Salem, Oregon. . . . .	1		
American Academy of Political and Social Science, Philadelphia, Pa. . . . .	1	4	

	Volumes	Parts and Numbers	Pamphlets
Pennsylvania Museum, Philadelphia, Pa. . . . .	1		
Philadelphia City Trusts, Philadelphia, Pa. . . . .	1		
Pennsylvania State College Agricultural Experiment Station, State College, Pa. . . . .	4		
Rhode Island Agricultural Experiment Station, Kingston, R. I.	1	74	
South Dakota Agricultural Experiment Station, Brookings, S. D.	2	26	
Tennessee Agricultural Experiment Station, Knoxville, Tenn.	2	33	
University of Tennessee, Knoxville, Tenn. . . . .		1	
Texas Agricultural Experiment Station, College Station, Tex.	3		
Agricultural Experiment Station, Logan, Utah. . . . .		45	
The International Monthly, Burlington, Vermont. . . . .		1	
Virginia Agricultural Experiment Station, Blacksburg, Va. . . .		33	
University of Virginia, Charlottesville, Va. . . . .	1	3	
Hampton Normal and Agricultural Institute, Hampton, Va. . .	2		
Washington Agricultural Experiment Station, Pullman, Wash.	5	16	
West Virginia Agricultural Experiment Station, Morgan- town, W. V. . . . .	5	13	
Valentine Museum, Richmond, Virginia. . . . .			1
Wisconsin Agricultural Experiment Station, Madison, Wis. . . .		64	
Free Library Commission, Madison, Wis. . . . .			1
University of Wisconsin, Madison, Wis. . . . .			1
Wyoming Agricultural Experiment Station, Laramie, Wyo. . . .	20		
Government Printing Office, Washington, D. C. . . . .	1		
National Geographic Society, Washington, D. C. . . . .	5		
Philosophical Society of Washington, D. C. . . . .	1		
Superintendent of Documents, Washington, D. C. . . . .		14	1
U. S. Board on Geographic Names, Washington, D. C. . . . .	1		1
Agricultural and Commercial Department, Tokio, Japan. . . . .	1		
Deutsche Gesellschaft für Natur- und Völkerkunde Ost Asiens, Tokio, Japan. . . . .	2		
Sarawak Museum, Sarawak, Borneo. . . . .			1
Tokio Geographical Society, Tokio, Japan. . . . .		5	
Queensland Museum, Brisbane, Australia. . . . .	1		1
Public Library of Victoria, Melbourne, Australia. . . . .	1		
Census Office, Sydney, Australia. . . . .		3	
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Minister of Mines, Tasmania, Australia. . . . .	1		1
Hungarian Central Bureau, Budapest, Hungary. . . . .	2	2	
Akademija Umiejetności, Krakau (Galicia), Austria. . . . .		2	
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Académie Royal de Belgique, Brussels, Belgium. . . . .	2		
Société Anonyme des Ateliers de Construction, Brussels, Bel- gium. . . . .			1
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Board of Trade, Victoria, British Columbia. . . . .	2		

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Central Experiment Farm, Ottawa, Canada.....	1	3	
Department of Indian Affairs, Ottawa, Canada.....	1		
Department of Inland Revenue, Ottawa, Canada.....	2		
Department of Marine and Fisheries, Ottawa, Canada.....	4		
Department of Parliamentary Papers, Ottawa, Canada.....	35	4	3
Department of Parliamentary Papers, Ottawa, Canada. 2 Maps.			
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Department of Trade and Navigation, Ottawa, Canada.....	4		
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Minister of Finance, Ottawa, Canada.....	2		
L'Université Laval, Quebec, Canada.....	1		
Dominion of Canada, Meteorological Service, Toronto, Canada		1	
Ontario Department of Agriculture, Toronto, Canada.....	6	8	2
Kongelige Danske geografiske Selskab, Copenhagen, Denmark.....		2	
Zoological Museum, University of Copenhagen, Copenhagen, Denmark.....	1		
Monthly Arabic Journal of Science, Literature and Art, Cairo, Egypt.....		13	
Mortimer Museum of Archæology and Geology, Duffield, England.....	1		
Museums Association, London, England.....		1	
Société des Études Scientifiques, Angers, France.....	1		
Société Nationale d'Agriculture, Sciences et Arts, Angers, France.....	1		
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Société d'Horticulture et d'Histoire Naturelle de l'Hérault, Montpellier, France.....		7	
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Gebrüder Borntraeger, Berlin, Germany.....			1
Deutsche Asiatische Gesellschaft, Berlin, Germany.....		1	

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Kgl. Lyceum Hosianum in Braunsberg, Braunsberg, Germany.			1
Königliches Mineralogisch-Geologisches und Prähistorisches Museum, Dresden, Germany.....			1
Königliche Oeffentliche Bibliothek, Dresden, Germany.....	1		
Naturforschende Gesellschaft zu Freiburg, Germany.....		1	
Deutscher Verein zum Schutze der Vögelwelt, Gera, Germany..		2	
Expedition der "Insekten-Börse," Leipzig, Germany.....		1	
Fürstliche Jablonowski'sche Gesellschaft der Wissenschaften, Leipzig, Germany.....			1
Verein zum Schutze der Vögelwelt, Leipzig, Germany.....	4		
Commerce Spécial de la Grèce avec les Pays Etrangers, Athens, Greece.....	2	11	
Ministère des Finances, Athens, Greece.....		2	
Northwestern Provinces and Oudh, Allahabad, India.....		5	4
Agricultural and Horticultural Society of India, Calcutta....		5	
Bengal Chamber of Commerce, Calcutta, India.....	1		
Botanical Survey of India, Calcutta, India.....	1	2	
Government of India, Calcutta, India.....	13	52	31
Belfast Natural History and Philosophical Society, Belfast, Ireland.....	1		
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Estado Libre y Soberano de Oaxaca, Mexico, Mexico.....	1		
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Norges Geologiske Undersøgelse, Christiania, Norway.....		25	
Statistiske Central Bureau, Christiania, Norway.....			1
Sociedade Broteriana, Coimbra, Portugal.....		3	
Bernice Pauahi Bishop Museum, Honolulu, Hawaiian Islands..	5		2
Edinburgh University, Edinburgh, Scotland.....	1		
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Universidad de la Plata, La Plata, Argentina.....		1	
Sociedad Geografica de Lima, Lima, Peru.....		3	
Instituto Agronomico do Estado de São Paulo, Sao Paulo, Brazil.....		1	
Museo de Historia Natural de Valparaiso, Valparaiso, Chili...		3	
Real Accademia de Ciencias Exactas, Fisicas y Naturales, Madrid, Spain.....	1	1	
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Académie Royale Suédoise, Stockholm, Sweden.....	2	2	

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Library, Leland Stanford, Jr., University, Palo Alto.....	5		
California Academy of Sciences, San Francisco.....	1	14	
San Francisco Free Public Library.....	1		
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Connecticut. State Board of Agriculture, Hartford.....	1		
Connecticut Academy of Arts and Sciences, New Haven.....	1		
Georgia. Geological Survey, Atlanta.....	1		1
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Field Columbian Museum, Chicago.....	2	9	1
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Indiana. C. H. Eigenmann, Bloomington.....	1		17
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Geological Survey, Des Moines.....	1		
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University of Iowa, Iowa City.....		1	
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Kansas. Academy of Sciences, Topeka.....	1		
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Portland Society of Natural History, Portland.....		1	
Maryland. Geological Survey, Baltimore.....	2		
Johns Hopkins University Press, Baltimore.....	28	20	1
Massachusetts. Agricultural College, Amherst.....	3	39	
American Academy of Arts and Sciences, Boston.....		19	
Appalachian Mountain Club, Boston.....		2	1
Boston Public Library.....	1	9	3
Boston Society of Natural History.....	1	6	
State Board of Agriculture, Boston.....	2		
Archeological Institute of America, Cambridge.....		2	
Harvard College Astronomical Observatory, Cambridge..	2	19	1
Museum of Comparative Zoölogy, Cambridge.....	3	7	
Peabody Museum of American Archeology and Ethnology, Cambridge.....	1	1	
Essex Institute, Salem.....	1		
City Library Association, Springfield.....	1		
Worcester Society of Antiquity.....	1		1
Michigan. State Library, Lansing.....	10	17	1
Public Museum, Milwaukee.....	1		



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Historical Society, St. Paul.....		1	
Missouri. University of the State, Columbia.....	1	2	
Missouri Botanical Garden, St. Louis.....	1		
St. Louis Academy of Science.....	1	6	
Nebraska. University, Lincoln.....	1	6	
New Hampshire. Prof. C. H. Hitchcock, Hanover.....			7
New Jersey. Free Public Library, Newark.....	1	4	1
Agricultural Experiment Station, New Brunswick.....		1	
Library, Rutgers College, New Brunswick.....	7	4	1
Geological Survey, Trenton.....	1	2	
Geological Survey, Trenton..... 2 Maps.			
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State Museum, Albany.....	10	1	
University of State, Albany.....	7	7	
F. H. Lattin, Albion.....		11	
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R. Ellsworth Call, Brooklyn.....	5		2
Buffalo Society of Natural History.....		1	
Cornell University, Ithaca.....	4	14	
Natural Science Association, New Brighton, Staten Island.		9	
Academy of Science, Rochester.....		3	1
Geological Society of America, Rochester.....		9	1
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American Numismatic and Archæological Society, New York City....	1		
American Society for Prevention of Cruelty to Animals, New York City.....		12	
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Linnæan Society, New York City.....		1	
Mercantile Library, New York City.....	1	1	
Metropolitan Museum of Art, New York City.....	3		
New York Academy of Sciences, New York City.....		3	
New York Botanical Garden, New York City.....		7	1
New York Public Library, New York City.....		15	
New York Zoölogical Society, New York City.....	1	1	
Torrey Botanical Club, New York City.....		4	
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Ohio. Cincinnati Society of Natural History.....		2	
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Charles S. Prosser, Columbus.	2	1	8
Dennison University, Granville.		1	
Pennsylvania. Academy of Natural Sciences, Philadelphia.		5	
American Philosophical Society, Philadelphia.		3	
Geographical Society of Philadelphia.		4	
Students' Entomological Association, Philadelphia.		4	
University of Pennsylvania, Philadelphia.	18	12	7
Zoölogical Society of Philadelphia.	1		
Carnegie Museum, Pittsburg.	1		
Wyoming Historical and Geological Society, Wilkes-Barre.	1		
Rhode Island. Brown University, Providence.	1		
Texas. Academy of Science, Austin.	1		
Vermont. Fletcher Free Library, Burlington.	1		
University of Vermont and State Agricultural College, Burlington.	4	23	
Washington, D. C. Washington Academy of Sciences.	1	12	1
Department of Agriculture.	49	470	8
Department of Agriculture. 56 Maps.			
Department of Interior. 108 Maps.	38	21	
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Treasury Department.	5		
War Department.	1		1
Wisconsin. Academy of Sciences, Arts and Letters, Madison.		1	
State Historical Society, Madison.	2		
Geological and Natural History Survey, Madison.	2		
Natural History Society, Milwaukee.		2	
Wyoming. University of Wyoming, Laramie.		4	
Canada. Le Naturaliste Canadien, Chicoutimi.		14	
Fruit Growers' Association, Grimsby.	1	10	
Hamilton Association.		1	
Entomological Society of Ontario, London.		11	
Natural History Society of Montreal.		2	
Numismatic and Antiquarian Society of Montreal.		4	
Geological Survey of Canada, Ottawa.	1		
Geological Survey of Canada, Ottawa. 1 Map.	1		
Ottawa Field Naturalists' Club.	1		
Royal Society of Canada, Ottawa.	1		1
New Brunswick Natural History Society, St. John.		1	
Canadian Institute, Toronto.	2		
University of Toronto.	2		1
Manitoba Historical and Scientific Society, Winnipeg.	1	3	
Costa Rica. Museo Nacional, San José.			1
Mexico. Biblioteca de la Secretaría de Fomento.		18	
Direccion General de Estadistica.	1	2	4
Museo Nacional de Mexico.		5	1
Sociedad Cientifica "Antonio Alzate," Mexico.	1		
West Indies. Dodd's Botanical Station, Barbadoes.		1	
Agricultural Society, Trinidad, Port-of-Spain.		9	1

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South America. Prof. Carlos Berg, Buenos Aires, Argentina.			7
Museo Nacional de Buenos Aires, Argentina.....		2	
Direccion General de Estadistica, La Plata, Argentina....	3	5	
Museo de La Plata, La Plata, Argentina.....			2
Royal Agricultural and Commercial Society, Georgetown, British Guiana.....	I		
Museo Nacional de Montevideo, Uruguay.....		10	
Museu Paraense de Historia Natural e Ethnographia, Para. Biblioteca Nacional de Rio de Janeiro, Brazil.....	75		19
Société Scientifique de Chili, Santiago, Chili.....		2	
La Universidad, Santiago, Chili.....	8		
Museu Paulista, São Paulo, Brazil.....	I		
Museum de Valparaiso, Valparaiso, Chili.....		10	
Africa. Institut Égyptien, Cairo.....		9	
Colonial Secretary's Office, Cape Town.....			I
Department of Agriculture, Cape Town.....		26	
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Société Archéologique de Constantine, Algeria.....	I		
Institut de Carthage, Tunis.....			4
Asia. Koninklijke Naturkundige Vereeniging in Neder- landsch-Indië, Batavia, Java.....	I		
Syrian Protestant College, Beirût, Syria.....	I		
Royal Asiatic Society (Bombay Branch).....	2		
Asiatic Society of Bengal, Calcutta, India.....		17	
Indian Museum, Calcutta, India.....	2	3	
Madras Government Museum, India.....	I	2	
Imperial University, Tokio, Japan.....			8
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Geological Survey, Western Australia, Perth.....	I	I	
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Geological Survey of New South Wales, Sydney.....	I		
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Royal Colonial Institute, London.....		5	
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Manchester Field Naturalists' and Archaeologists' Society,		1	
Manchester Geographical Society.....	10		1
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Literary and Philosophical Society, Manchester.....		3	
Museum, Owens College, Manchester.....		4	
Zoölogical Museum, Tring.....		4	
Hertfordshire Natural History Society and Field Club,			
Watford.....		6	
France. Société Linnéenne du Nord de la France, Amiens... ..		10	
Station Zoologique, Arcachon.....	2		
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Département de l'Oise, Beauvais.....		1	
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sur Saône.....		9	
Société Nationale des Sciences Naturelles et Mathe-			
matiques, Cherbourg.....	1		
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Société Bretonne de Géographie, Lorient.....		3	
Faculté des Sciences de Marseille.....		9	
Muséum d'Histoire Naturelle, Marseilles.....		7	
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partement de la Lozère, Mendon.....		4	
Société des Sciences de l'Ouest de la France, Nantes.....	1	2	
Feuilles des Jeunes Naturalistes, Paris.....		15	
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Académie des Sciences, Inscriptions et Belles-Lettres,			
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Iceland. Hid Islenzka Bokmentafjælag, Reykjavik.....	6		
Ireland. Flax Supply Association, Belfast.....		1	
Italy. R. Istituto Lombardo di Scienze e Lettere, Milan ...	1	5	
R. Accademia di Scienze, Lettere ed Arti in Rovoreto, Modena.....		5	
Società Toscana di Scienze Naturali, Pisa.....		2	
R. Accademia dei Lincei, Rome.....	1	35	
Musei di Zoologia ed Anatomia, Turin.....		25	
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Société Hollandaise des Sciences, Haarlem.....	1	1	
Nederlandsche Dierkundige Vereeniging, Leiden.....		1	1
Zealand Society of Sciences, Middelburg.....		1	
Norway. Stavanger Museum.....	1		
Kongelige Norske Videnskabernes Selskab, Trondjem....	1		
Nova Scotia. Nova Scotian Institute of Science, Halifax....		1	
Russia. Société des Sciences des Finlande, Helsingfors.....	5		
Société des Naturalistes, Kiew.....		1	
Société Impériale des Naturalistes, Moscow.....		6	
Société des Naturalistes de la Nouvelle-Russie, Odessa....	1		
Académie Impériale des Sciences, St. Petersburg.....		9	
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Russisch Kaiserliche Mineralogische Gesellschaft, St. Petersburg.....		2	2
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Edinburgh Geological Society.....		1	
Philosophical Society of Glasgow.....	1		
Sweden. Kongliga Vetenskaps och Vitterhets Samhället, Gothenburg.....	1		
Kongliga Vitterhets, Historie och Antiquitets Akademien, Stockholm.....		1	1
Royal Swedish Academy of Sciences, Stockholm.....	12		
Société Entomologique, Stockholm.....		4	
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Upsala Universitet Mineralogisk-Geologisk Institutionen.			1
Switzerland. Naturforschende Gesellschaft, Basel.....	2	25	
Schweizerische Gesellschaft für die gesammte Naturwissenschaften, Bern.....	1		
Naturforschende Gesellschaft Graubündens, Chur.....	1		
Thurgauische Naturforschende Gesellschaft, Frauenfeld..	1		
Société Fribourgeoise des Naturalistes, Fribourg.....	3	3	
Société Vaudoise des Sciences Naturelles, Lausanne.....		4	
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DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY.

BY DONATION.

- R. A. BRIEDEBACH, New York City.  
A lot of small Ammonites and other fossils from the Cretaceous beds  
of Wyoming.
- REV. D. STUART DODGE, D.D., New York City.  
8 Crates and 1 box of fossil fish and crustaceans from Northern Mt.  
Lebanon, Hajula and Hâkil, Syria.
- LURAY CAVE CO., Luray Cave, Va., through Lemuel Zerkel, Supt.  
About 20 stalactites and stalagmites from Luray Cave, Va.
- MAMMOTH CAVE CO., Mammoth Cave, Kentucky, through H. C. Ganter,  
Manager.  
1 Stalactite from Mammoth Cave, Ky.
- DR. F. C. NICHOLAS, New York City.  
Small lot of fossils from Jamaica, W. I.
- STEWART ESTATE, Marengo, Ind.  
1 Stalactite from Marengo Cave, Ind.
- W. S. SNYDER, Watervliet, N. Y.  
2 Specimens of *Spirifer pertenuis*.  
1 " " *S. audacula*.  
3 " " *Grammysia circulus*.  
1 " " *Orthoceras crotalum*.  
1 " " *Grammysia bisulcata*.  
5 Blocks of Graptolites.  
2 " " Iron-manganese ore, all from quarry in Utica Slate near  
Watervliet, N. Y.
- FRANK SPRINGER, East Las Vegas, N. M.  
1 Large slab of *Uintacrinus socialis* from the Niobrara Chalk, Logan  
Co., Kansas.
- CALVIN TOMKINS, New York City.  
2 Specimens of Stromatopora and  
1 Specimen of Fault-breccia from cement quarries near Rondout, N. Y.
- TRAITEL BROTHERS & CO. Through Professor H. C. Bumpus.  
5 Specimens of *Ammonites communis*.  
2 " " *Ostræa gregaria*.  
1 " " *Modiola bipartita*.  
2 " " *Nucula strigillata*, all from Vallera, near Truville,  
France.
- U. S. NATIONAL MUSEUM, Washington, D. C.  
20 Specimens of *Lactira cambria* from Coosa Valley, Ala.  
9 " " *Brooksella alternata* from Coosa Valley, Ala.  
2 " " *Dactylodites asteroides* from Middle Granville, N. Y.
- WYOMING HISTORICAL AND GEOLOGICAL SOCIETY, Wilkes-  
barre, Pa.  
1 Fragment *Sigillaria pittstoniana*, Lesq.  
1 Block of shale with *Pecopteris cistii*, Br.

## ALBERT ZANNG.

About 50 specimens of *Rhynochonella depressa*, Sowb., from the Cretaceous beds at St. Blaise, 3 miles from Neuchâtel, Switzerland.

WM. ALEXANDER, Buffalo Gap, S. D. Through E. O. Hovey.  
A large block of banded Jurassic sandstone.

## BY PURCHASE.

- 37 Specimens of *Receptaculites* and other fossils from Robinett, Tenn.  
 2 " " *Orthoceras* and *Asaphus*.  
 9 " " *Dictyophyton*.  
 1 " " *Orthoceras* from Deadwood, South Dakota.  
 1 " " *Scaphites covradi* from Judith River, near Thunder Mts.  
 2 " " *Baculites* from Belle Fourche River.  
 4 " " *Scaphites warreni* from Black Hills.  
 5 " " *Trilobites* from Mt. Stephen, B. C.  
 1 " " *Spirophyton* from Chemung County, N. Y.  
 1 " " *Cycad* from Black Hills.  
 1 " " *Cycadoidea* from Isle of Portland, England.  
 1 " " *Dictyophyton prismodictya* from Clarksville, Alleg. Co., N. Y.  
 6 " " *Camarocrinus marylandica* from Cumberland, Md.  
 10 " " *Spherozystites multifasciatus* from Cumberland, Md.  
 4 " " *Ancylocrinus bulbosus* from Charleston, Ind.  
 4 " " *Paracyclas occidentalis* from Watson Sta., Clark Co., Ind.  
 1 " " *Helicoceus stevensoni* from Beaver Creek, Wyo.  
 2 " " *Lytoceus batesi* from Shasta Co., Cal.  
 1 Large fossil fern, *Neuropteris rarinerzsis*, from Cape Breton, Nova Scotia.  
 1 Slab, about 4 ft. by 1 ft., of Orbicular Granite from Kartfors, Province of Örebro, Sweden.  
 8 Large cycad trunks and 7 fragments from Minnekahta, South Dakota.  
 6 Fragments *Teredo* borings from Ore Creek, north end of Black Hills, South Dakota.  
 1 Valve of *Orthis occidentalis?* from Black Hills, South Dakota?  
 4 Slabs bearing fish teeth from near Bear Butte, S. D.  
 1 Slab of *Goniobasis* from Sheridan, Wyo.  
 1 Slab of *Chennitzia cerithiformis* from Wasatch Region, S. W. Wyo.

## THROUGH MUSEUM EXPEDITIONS.

- IN PATAGONIA, through Barnum Brown.  
About 275 invertebrate fossils.  
 IN WYOMING, through Barnum Brown.  
1 Block of fossil *Teredo* and several loose individuals.  
 IN SOUTH DAKOTA AND WYOMING, by E. O. Hovey.  
Collection of fossil invertebrates from the Jurassic strata of the northern, eastern and southern Black Hills.  
Collection of cephalopods from the Ft. Pierre Cretaceous beds, near Buffalo Gap, S. D.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

MAMMALS.

BY DONATION.

- BARNUM BROWN, New York City.  
18 Skins and skulls of mammals from Patagonia.
- JOHN BURKE, New York City.  
1 Bat.
- CENTURY COMPANY, New York City.  
18 Skins, horns, etc., mainly of Antelopes, from East Africa.
- CLARENCE LYMAN COLLINS, New York City.  
1 Varying Hare, melanistic, from the Adirondacks.
- JOHN N. CUNNINGHAM, New York City.  
1 Meadow Mouse.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
20 Monkeys, 1 Puma, 1 Leopard, 1 Lion cub, 1 Tiger, 1 Ocelot,  
1 Coyote, 1 Seal, 3 Raccoons, 2 Bears, 1 Bison, 1 Loudad, 1  
Sheep, 1 Antelope, 6 Deer, 2 Elk, 1 Agouti, 5 Opossums.—  
Total, 50 specimens, received in the flesh from the Central  
Park Menagerie.
- C. A. DEYO, Schoharie, N. Y.  
1 Opossum.
- C. F. FERRER, New York City.  
1 Bat.
- C. L. FORBUSH, Capt. and Asst. Surgeon U. S. A., Philippine Islands.  
1 Skull of *Galeopithecus*.
- Mrs. G. FURMAN, New York City.  
1 Setter Dog.
- E. GAFFRON, New York City.  
1 Puma skin and skull from Peru.
- DAVID J. GARDINER, East Hampton, N. Y.  
1 Bison Cow.
- J. W. GIDLEY, New York City.  
2 Horse skulls from Texas.
- JOHN S. HENNESSEY, New York City.  
2 Gray Squirrels.
- J. CAMERON JENKINS, New York City.  
Nest of Red Squirrel
- JESUP NORTH PACIFIC EXPEDITION.  
42 Skins of Foxes and other mammals from Siberia.
- DUKE OF LOUBAT, Paris, France.  
120 Mammals from the State of Jalisco, Mexico.
- JOHN MATTHEWS, Stamford, Conn.  
Malformed skull of Woodchuck.
- JOHN MILLER, Locust Valley, N. Y.  
1 Albino Mole.

MISS CHARLOTTE A. MORTON, Newburgh, N. Y.

1 Ruby Blenheim Spaniel.

NEW YORK ZOÖLOGICAL SOCIETY.

5 Orangs, 15 Monkeys, 5 Lemurs, 2 Otters, 3 Minks, 1 Coyote, 1 Fox, 2 Bears, 7 Deer, 3 Elk, 1 Moose, 3 Caribou, 1 Bison, 3 Peccaries, 1 Squirrel, 3 Prairie Dogs, 5 Beavers, 1 Porcupine, 2 Tree Porcupines, 2 Chinchillas, 6 Kangaroo Rats, 1 Capromys, 1 Armadillo, 2 Sloths, 1 Dasyure.—Total, 77 specimens received in the flesh.

FRANCIS C. NICHOLAS, New York City.

1 Monkey from Costa Rica.

W. A. VAN RENNELAER, Netherwood, Dutchess Co., N. Y.

1 Skunk.

CAPT. WIRT ROBINSON, U. S. A., West Point, N. Y.

7 Mammals from Venezuela, mostly topotypes of recently described species.

JOHN ROWLEY, New York City.

1 Chipmunk.

G. O. SHIELDS, New York City.

1 Flying Squirrel from Texas.

J. F. TAYLOR, Brooklyn, N. Y.

1 Sperm Whale tooth.

JAMES TEIT, Spence's Bridge, B. C.

1 Woodchuck.

PROF. E. C. STERLING, Adelaide, New South Wales, Australia.

1 Skin and skeleton of *Notoryctes typhlops*.

C. DuBOIS WAGSTAFF, New York City.

1 Grizzly Bear from California, mounted.

W. S. WRIGHT, North Beach Amusement Co.

1 Sea Lion.

LOUIS A. DI ZEREGA, M.D., New York City.

3 Skins and 3 skulls of small mammals.

#### BY EXCHANGE.

1 Beaver from North Carolina and 40 specimens from South America.

#### BY PURCHASE.

1 European Bison skeleton, 2 Echidna skeletons, 155 small mammals from Mexico, 53 from Manitoba and Northwest Territory, 44 from Mexico and 200 from Venezuela.

#### THROUGH MUSEUM EXPEDITIONS.

ANDREW J. STONE ALASKAN EXPEDITION.

16 Bears, 10 Moose, 16 Caribou, 14 Sheep, 1 Wolverine, 1 Red Fox, 1 Seal and 300 small mammals.

SIBERIAN EXPEDITION.

400 Small mammals from northeastern Siberia, collected by N. G. Buxton.

BIRDS.

BY DONATION.

MORTIMER PERCY ARNOLD, New York City.  
1 Pheasant.

J. L. BARNES, M.D., New York City.  
1 Red-tailed Hawk.

MRS. WILLIAM BARR, Orange, N. J.  
4 White-tailed Ptarmigan.

E. H. BAYNES, Stoneham, Mass.  
1 Corncrake.

B. S. BOWDISH, Mayaguez, Puerto Rico.  
11 Puerto Rican birds.

DR. N. L. BRITTON, New York City.  
1 Owl.

FRANK M. CHAPMAN, New York City.  
1 Gallinule.

JOHN N. CHILDS, Floral Park, N. Y.  
1 Prairie Warbler.

H. C. DAVENPORT, East Orange, N. J.  
1 Pheasant.

DEPARTMENT OF PUBLIC PARKS, New York City.

12 Parrots, 9 Eagles, 3 Hawks, 5 Owls, 2 Condors, 1 Vulture, 5  
Pheasants, 2 Grouse, 7 Swans, 1 Duck, 3 Gulls, 1 Pelican, 1  
Murre, 1 Peacock, 1 Ostrich, 5 Grosbeaks, 1 Sparrow, 1 Crow.—  
Total, 61 specimens, received in the flesh from the Central Park  
Menagerie.

DUKE OF LOUBAT, Paris, France.  
110 Bird skins from Mexico.

ANDREW DURIE, Tremont, New York.  
1 Peacock.

WILLIAM DUTCHER, New York City.  
1 Hawk, 1 Gull, 1 Sparrow, 3 Finches, 1 Tanager.

C. LINCOLN FREE, Easton, Pa.  
1 California Quail.

GEORGE FORBES, JR., Agnosco, Md.  
1 Carolina Chickadee.

C. A. GILBERT, Madison, N. J.  
Nest of Gnatcatcher from Missouri.

HENRY MINOR HUXLEY, New York City.  
10 Birds from Syria.

C. B. ISHAM, New York City.  
10 Mexican birds.

JESUP NORTH PACIFIC EXPEDITION.  
27 Siberian birds.

J. T. & J. P. KEMP, New York City.  
1 Wood Thrush.

JAMES KIESLING, New York City.  
1 Junco.

Miss E. LYON, Roseville, Staten Island, N. Y.  
1 Crane.

- MRS. BANKSON T. MORGAN, New York City.  
1 Case of mounted birds.
- MRS. FREDERICK E. MOSER.  
1 Albino Hummingbird.
- NEW YORK ZOÖLOGICAL SOCIETY.  
1 Eagle, 2 Crowned Pigeons, 1 Nicobar Pigeon, 1 Flamingo, 1 Cas-  
sowary.—Total, 6 specimens, received in the flesh.
- H. T. ROSENBERG, Eastport, Long Island, N. Y.  
2 Pea Fowls, 1 young Pheasant.
- JOHN ROWLEY, New York City.  
1 Flicker.
- MISS A. SMITH, New York City.  
Case of mounted birds.
- MRS. ANNA J. SMITH, New York City.  
1 Mounted Wood Duck.
- G. O. SMITH, Townsend P. O., Va.  
1 Great Blue Heron.
- RICHARD PENN SMITH, Staten Island, N. Y.  
1 Woodpecker.
- MISS HARRIET STANLEY, Westchester, N. Y.  
1 Barred Owl.
- JOHN R. SWANTON, Skidegate, British Columbia.  
1 Great Blue Heron, type of *Ardea herodias fannini* Chapman.
- DAVID TOMLINSON, Yonkers, N. Y.  
1 Woodpecker, 1 Cowbird.
- J. TORRENCE, New York City.  
1 Pelican.
- SIMON UHLMANN, New York City.  
Case of mounted birds.
- E. R. WARREN, Colorado Springs, Colorado.  
16 Bird skins from Colorado.
- ROBERT WEINCKE, Guttenburg, N. J.  
1 Whippoorwill.
- MR. AND MRS. WILLIAM WHITE, New York City.  
1 Mounted Snowy Owl.
- MR. ROBERT WITKOW, New York City.  
1 Weaverbird.
- LOUIS A. DI ZEREGA, M.D., New York City.  
300 Bird skins, mostly from New York State; small collection of nests  
and eggs.

## BY PURCHASE.

623 Specimens from Venezuela, 465 from Mexico, 423 from various locali-  
ties in North America.

## THROUGH MUSEUM EXPEDITIONS.

- ANDREW J. STONE ALASKAN EXPEDITION.  
300 Specimens, collected by J. D. Figgins.
- SIBERIAN EXPEDITION.  
700 Specimens from northeastern Siberia, collected by N. G. Buxton.



## DEPARTMENT OF ANTHROPOLOGY.

BY DONATION.

- ANDREW E. DOUGLASS, New York City.  
An archaeological collection of upwards of 23,000 specimens collected in the United States. Archaeological specimens from Egypt and various places in Europe. A collection of tobacco pipes.
- PETER NELSON, New York City.  
3 Chipped and polished celts from Denmark.
- FRANK SCHMALL, New York City.  
A pack of playing-cards with instructions, from Vienna.
- BERTRAND F. BELL, New York City.  
A collection of archaeological material from St. Clair County, Ill., and specimens of Mexican imitations.
- WILLIAM E. DODGE, New York City.  
2 Executioners' swords from Congo Free State.
- MRS. A. N. CARLETON, Brooklyn, N. Y.  
Ethnological specimens from Rangoon, Burma.
- ELBERT WAKEMAN, Millneck, L. I.  
Stone implements, rejects and quartz chips from Centre Island, Oyster Bay, N. Y.
- A. E. LARGE.  
A collection from Raratonga.
- GEORGE U. S. HOVEY, White Church, Kan.  
Photographs of stone objects found near three mounds at that place.
- BARNUM BROWN.  
Collection of archaeological specimens from Patagonia and Argentine Republic.
- J. L. GREEN, Morristown, N. J.  
1 Bannerstone.
- DUKE OF LOUBAT.  
The Diguet archaeological collection from northern Mexico. An ancient Mexican map of Teotihuacan. Two reproductions of pre-Columbian Mexican Codices.
- DR. F. G. WIECHMANN, New York City.  
14 Spears from Melanesia.
- HEBER R. BISHOP, New York City.  
Cast of a Mexican jadeite breast-ornament.
- REV. GEORGE CORNWELL.  
A Buddhistic idol.
- PROFESSOR E. C. STIRLING, Adelaide, S. Australia.  
A basket and photographs of natives of Central Australia.
- SPEROS CONDOUNES, New York City.  
15 Small Grecian figurines, lamps, and vases from Sparta.
- CLARENCE B. MOORE, Philadelphia, Penn.  
Pottery vessels from mounds in Florida and Alabama.
- MRS. T. K. GIBBS, Newport, R. I.  
60 Baskets and a box of dice from California.

- Mrs. A. E. NATHAN, Durango, Col.  
A skull of an Indian.
- WOMAN'S UNION MISSIONARY SOCIETY.  
Ethnological specimens from New Guinea and China.
- CENTURY PUBLISHING CO., New York City.  
The Glave ethnological collection from Africa.
- GILBERT SANDERS, Trinidad, Col.  
2 pottery objects from Pueblo Indians of New Mexico.
- JOHN W. WARREN, New York City.  
2 Celts and one chipped knife from Darling Range, West Australia.
- BEN. FRANK McCARTON, New York City.  
Bark of a palm from Central America.
- HARLAN I. SMITH, New York City.  
Archæological and ethnological collection mainly from Saginaw Valley, Mich.
- BERTRAM C. BROOME, Jersey City, N. J.  
6 Potsherds, 2 arrow-points and 1 smoothing-stone from San Miguel, Mex.
- ROLAND STEINER, Grovetown, Ga.  
3 Large models of fish-traps made by the negroes of Georgia.
- PROFESSOR A. S. BICKMORE, New York City.  
Eskimo fur coat from Sandwich Bay, Labrador.
- LIEUT. G. T. EMMONS, Princeton, N. J.  
Native bullet-mould, patterns and dice from Alaska.
- SALUSTIS BEÉCHE, Valparaiso, Chili.  
A wooden figure used as talisman, carved by Indians of the Isle of Pascua.
- Miss ELLEN COLLINS, New York City.  
A pottery jar from Socoro, N. Mex.
- SIGNORS TORRES AND TORNERO, Chili.  
Photographs of mummified Indian found in an ancient copper-mine in Chili.
- WILLIAM FRIEDMAN, New York City.  
Serpentine breast-ornament, a terra-cotta cylindrical vessel, bark-beater and pottery objects from Las Quebradas, Guatemala.
- GEORGE FOSTER PEABODY, New York City.  
The Briggs collection of 440 Indian baskets from California, Oregon, Washington, British Columbia and Alaska.
- EDWARD E. CRAFT, Glen Cove, N. Y.  
16 Arrow and spear points.
- E. P. MATTHEWSON, Montreal, Canada.  
Ethnological and archæological specimens from Peru, Chili and Bolivia.
- Miss LULU HIGGINS, New York City.  
A stone idol from Cape Mount, Liberia, West Africa.
- Mrs. JOHN DUNN, New York City.  
Beaded purse made by Sioux Indians on Teton Range, Wyoming.
- ALEXANDER CRANE, Econtuchka, I. T.  
A Seminole ceremonial pipe, shell bead necklace, arrow-point and medicine-bag.

ARTHUR CURTISS JAMES, New York City.

An Ainu collection of costumes, jewelry, arms, medicines, household utensils, religious and ceremonial specimens, and a series of photographs relating to people, collected by Prof. Bashford Dean.

EDWARD D. ADAMS, New York City.

A "Jefferson Peace Medal," from an Indian grave on the east side of the Potlatch River, at its junction with the Clearwater River, on the Nez Perces Indian Reservation, Idaho.

BY EXCHANGE.

BERLIN ETHNOGRAPHICAL MUSEUM.

Cast of a slab from British Columbia.

U. S. NATIONAL MUSEUM.

Casts of copper figures, Queen Charlotte Is., B. C., and 16 Eskimo objects.

PROVINCIAL MUSEUM, Victoria, B. C.

18 Casts of war-clubs, hammers, mortars, pestles and spear-points.

REV. GEORGE CORNWELL, Yorktown Heights, N. J.

An opium and a tobacco pipe, 3 shoes and a piece of tile from China.

BY PURCHASE.

An Iroquois wampum condolence string.

The Cronau collection of Eskimo, African and Sioux Indian ethnological specimens.

Ancient Mexican map.

The Heyde archæological and ethnological collection from Guatemala.

2 Iroquois wampum-belts.

1 Indian shirt, 2 pieces of jadeite, 2 pieces of terra-cotta and 2 pieces of stone.

Ethnological collection from Korea.

Collection of pottery figures from State of Jalisco, Mexico.

The Gaffron Peruvian archæological collection.

The Dorenburg Mexican archæological collection.

THROUGH MUSEUM EXPEDITIONS.

JESUP NORTH PACIFIC EXPEDITION. Provided for by Morris K. Jesup.

Ethnological collection from Thompson River region. Made by James A. Teit.

Ethnological collection from Queen Charlotte Islands, British Columbia. Made by Dr. John R. Swanton.

Ethnological collection from Alert Bay and vicinity, British Columbia. Made by George Hunt.

Totem poles and house-posts from Queen Charlotte Islands, plaster casts of rock inscriptions from Vancouver Island. Collected by Dr. C. F. Newcombe.

Collection of skulls from St. Lawrence Is., and ethnological specimens from northern Kamchatka, and from Indian Point, Siberia. Made by Waldemar Bogoras.

Collection of ethnological specimens from the Koryak, northern Siberia. Made by Waldemar Jochelson.

House-posts from Bella Bella, British Columbia. Collected by A. E. Large.

Archæological collection from Lower Yukon. Made by P. B. Randolph.

#### EAST ASIATIC EXPEDITION.

Ethnological collection from southern China. Made by Dr. Berthold Laufer.

#### NORTH AMERICAN INDIAN RESEARCH.

##### HUNTINGTON EXPEDITION.

Collection of California basketry; also plaster casts of faces and hands of California Indians. Collected by Dr. Roland B. Dixon.

Collection of baskets made by Mission Indians of California. Collected by Mrs. M. M. Cross.

##### MRS. MORRIS K. JESUP EXPEDITION.

Collection of ethnological specimens from the Gros Ventres, Assiniboine, Crow and Sioux. Made by Dr. A. L. Kroeber.

##### MUSEUM EXPEDITIONS.

Specimens collected among the Sac and Fox Indians by William Jones.

Collection of ethnological specimens from the Shoshone Indians. Made by H. H. St. Clair, 2d.

#### LUMHOLTZ-HRDLIČKA MEXICAN EXPEDITION.

Archæological material from Mexico, collected in 1898, by Dr. A. Hrdlička.

#### MEXICAN EXPEDITION. Provided for by the Duke of Loubat.

Collection of archæological specimens from Mitla, and plans and photographs of the ruins of Mitla, Mexico. Collected by M. H. Saville.

#### HYDE EXPEDITION. Provided for by B. T. B. Hyde and F. E. Hyde, Jr.

A large collection from the cliff-houses in Arizona and from ancient burial-places in New Mexico; a collection from the Hopi Pueblos, illustrating ceremonials, including nearly 100 Katchinas; a bride's trousseau; pottery and other objects; and a collection illustrating Navajo ceremonies.

#### EXPLORATIONS IN THE DELAWARE VALLEY, NEW JERSEY.

Provided for by Dr. F. E. Hyde.

A large collection of various archæological objects and human skeletons from ancient Indian sites and burial-places near Trenton, N. J.; stone implements from the glacial deposits in and near Trenton. Collected by Ernest Volk.

#### MUSEUM EXPLORATIONS IN COLOMBIA.

Archæological collection from several ancient tombs in Santa Marta; bow and poisoned arrows, and household implements of the Goajira Indians. Collected by Dr. Francis C. Nicholas.

#### MUSEUM EXPLORATIONS IN NEW YORK STATE.

Archæological material and Indian skeletons from ancient village sites and burial-places near Armonk, Neperhan Valley, Oyster Bay, Locust Valley and Glen Cove. Collected by M. R. Harrington.

## BY THE DEPARTMENT.

Casts of various Indians, made by Casper Mayer.

Casts and photographs of whale-bone war-club, by courtesy of M. F. Savage.

Photographs of hafted stone implements from an ancient coppermine in Chili, by courtesy of Signors Torres and Tornero.

## FROM DEPARTMENTS.

## DEPARTMENT OF PALEONTOLOGY.

A chipped quartz point from New Jersey.

## DEPARTMENT OF GEOLOGY.

2 pestles and a tube from Lower California.

## DEPARTMENT OF ENTOMOLOGY.

## BY DONATION.

VERY REV. E. A. HOFFMAN, D.D., L.L.D., New York City.  
1,100 Butterflies from many localities.

DR. G. LAGAI, Kny-Scheerer Co., New York City.

*Megathymus neumogeni*, from Arizona; *Dirphia hagei*, from Mexico; *Pyrgus polingii*, from Arizona; *Menythus robiniaæ*, *Thyea pictoria* and *Cychnus minus*, from California.

MRS. S. V. V. HUNTINGTON, New York City.

Photograph and specimens of larva of *Hepialus virescens*.

JOHN MATTES, New York City.

1 *Catocala alabama*, 1 *Catocala olivia*.

S. L. WISE, New York City.

Butterflies from India.

W. W. BLAKE, Mexico City, Mexico.

Book injured by bookworms.

O. C. POLING, Quincy, Illinois.

*Catocala junctura*, from Arkansas; *Catocala babyaga*, from Arizona; *Catocala lacrymosa*, Quincy, Illinois; 2 *Euleucophaeus iricolor*, from Arizona; 1 *Catocala frenchii* co-type; 1 *Catocala dulicola*; 1 *Catocala nubilis* var. *apacha*, co-type.

PHILIP LAURENT, Mt. Airy, Pa.

2 *Tenodera sinensis* and egg-masses; 2 *Lagochirus araneiformis*; a small collection of beetles from different parts of the United States.

OTTO SEIFERT, New York City.

A small collection of insects from Florida: 22 *Olene leucophaea* and 12 *Arctia radians*.

DR. E. O. HOVEY, New York City.

Insects from the Wyandotte and Mammoth Caves, Ky.

CARL EICKEMEYER, Yonkers, N. Y.

Work of Carpenter Bee.

CARLOS WERCKLE, New York City.

A few insects from Costa Rica, C. A.

Dr. EDWIN C. VAN DYKE, San Francisco, California.

2 *Cychnus velutinus*, var. *opacus*; 1 *Cychnus sinuatus*; 1 *Cychnus cristatus*; 1 *Cychnus obliquus*; 2 *Cicindela eureka*; 4 *Pterostichus*, sp. nov.

CHARLES PALM, New York City.

1 *Sesia* sp. nov., from Arizona.

Dr. E. B. SOUTHWICK, New York City.

Nest of Chimney Swift, infested with *Acanthia hirundinis*.

BY EXCHANGE.

CHARLES DURY, Cincinnati, Ohio.

A number of rare Beetles.

THROUGH MUSEUM EXPEDITIONS.

3,200 Specimens from the Black Mountains, N. C. Collected by Wm. Beutenmüller.

800 Specimens from the vicinity of New York City. Collected by Wm. Beutenmüller and C. Schæffer.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

BY DONATION AND EXCHANGE.

PROFESSOR H. F. OSBORN, New York City.

Turtle from the White River formation of South Dakota.

Dr. S. P. LELAND, Chicago.

Parts of the bones of a fossil Camel from a zinc mine near Joplin, Mo.

ROYAL MUSEUM, Stuttgart, Württemberg. Through Professor Eberhard Fraas.

Collection of specimens of fossil reptiles and mammals, including skulls of two rare and ancient crocodilians.

Complete skeleton, nine feet long, of a great Fish-Lizard or Ichthyosaurus, containing seven young Ichthyosaurs.

UNIVERSITY MUSEUM, Lyons, France. Through Professor C. Depéret.

Casts of eight specimens of fossil mammals.

KANSAS UNIVERSITY MUSEUM, Lawrence, Kan. Through Professor S. W. Williston.

Piece of chalk showing fossilized skin of a great Cretaceous Sea-Lizard.

PROFESSOR A. M. MILLER, Lexington, Ky.

Plaster cast of teeth of a fossil Tapir found near Lexington, Ky.

MUSEUM OF CHRISTIANIA, Christiania, Norway. Through Professor W. C. Brögger.

Complete skeleton of the Pigmy Hippopotamus from Madagascar.

UNIVERSITY OF PENNSYLVANIA, Philadelphia.

Type specimens of two fossil mammals (*Cænopus simplicidens* and *Menodus peltoceras*) from the White River formation of Nebraska.

M. J. E. YOUNGLOVE.

Tooth of a Mastodon.

PROFESSOR JOSUA LINDAHL, Cincinnati, O.

Cast of the top of the skull of a fossil Peccary found near Cincinnati.

BY PURCHASE.

Blocks of sandstone containing foot-prints of fossil reptiles, from Turner's Falls, Conn.

Skeletons of modern Opossum, Cat, Raccoon and young Lamb.

Set of six lower teeth of Mastodon.

Parts of the skull of a new fossil Turtle.

Skeleton of a great Cretaceous Fish, *Portheus molossus*, from Kansas.

Skull and tusks of Mammoth, *Elephas imperator*, from Texas.

THROUGH MUSEUM EXPEDITIONS.

JURASSIC OF WYOMING.

Ninety specimens of Dinosaurs, including about half the skeleton of the armored Dinosaur, *Stegosaurus*; a skull and a large part of the skeleton and other good specimens of the great carnivorous Dinosaur *Allosaurus*; limbs, parts of skulls and other specimens of amphibious Dinosaurs, or Sauropoda. From the "Bone Cabin Quarry" and a new quarry in the same region.

TERTIARY OF COLORADO, Etc. Provided for by the Wm. C. Whitney fund.

One hundred and twenty-three specimens of fossil mammals, including complete skeletons of the three-toed horses, *Protohippus* and *Anchitherium*, Miocene Deer, *Blastomeryx* (direct ancestor of Virginia Deer(?)), and clawed Oreadont, *Agriocharus*, skulls and parts of skeletons of various Miocene Horses, Camels, Rhinoceroses, etc.

TERTIARY OF NORTHERN TEXAS. Provided for by the Wm. C. Whitney fund.

Thirty-five specimens of fossil mammals, including eighteen skeletons or parts of skeletons of the three-toed horse, *Protohippus*, a nearly complete carapace, tail and large part of skeleton of a large Glyptodont, or armored Edentate; skull and jaws of a Mastodon and other specimens of fossil mammals of the Miocene and Pliocene epochs.

DEPARTMENT OF MINERALOGY.

BY DONATION.

G. E. ANDERSON, New York City.

2 Specimens of Silver ore.

1 " " Gold ore.

1 " " Copper ore.

1 " " Telluride of Lead.

1 " " Onyx and miscellaneous fragments, all from Yavapai Co., Ariz.

BARNUM BROWN, New York City.

3 Specimens of Barite from Stirling, Col.

Miss M. W. BRUCE, New York City.

1 Specimen of Banded Quartz from Madagascar.

E. C. CAMMANN, New York City.

Miscellaneous specimens of minerals.

- RUSSELL T. CORNELL, New York City.  
 2 Specimens of Hematite.  
 1 " " Magnetite.  
 1 " " Pyrite.  
 1 " " Stringer cutting ore body, all from St. Lawrence Co., N. Y.
- JAMES LAWTON, New York City.  
 2 Pieces of Turf from the S. E. Cor. 18th St. and Fifth Avenue.
- W. W. McCRILLIS, Oxford Co., Maine.  
 3 Specimens of Muscovite from Oxford Co., Maine.
- J. PIERPONT MORGAN, New York City.  
 The Bement Collection of Minerals and the Gem Collection exhibited by Tiffany & Co. at the Paris Exposition of 1900. The Bement Collection contains more than 12,000 specimens and 580 Meteorites. The Gem Collection comprises 1,453 entries.  
 1 Nugget of Gold from Sierra Co., Cal.  
 105 crystals of Tourmaline from Haddam Neck, Conn.  
 1 specimen of rutilated Quartz from W. Hartford, Vt.
- MARSHALL H. SAVILLE, New York City.  
 1 Specimen of Silver ore from Totolapa District, Mexico.
- I. B. SNIFFEN, New York City.  
 1 Specimen of rock, 168th St. and Eleventh Ave.
- W. S. SNYDER, Albany Co., N. Y.  
 7 Specimens of Manganese ore.  
 7 " " Quartz.  
 4 " " sintery Chert, all from Albany Co., N. Y.
- FRANCIS WATT, New York City.  
 31 Specimens of rock from rapid transit excavations.
- PROFESSOR R. P. WHITFIELD, New York City.  
 1 Aërolite from Pultusk, Poland (2.22 grams).
- LIEUT. J. W. WARREN  
 1 Specimen of Chalcopyrite.  
 1 " " Hornblende.  
 1 " " Magnetite.  
 1 " " Quartz.  
 1 " " Talcose Schist, all from Darling Range, Australia.

## BY EXCHANGE.

- 3 Specimens of Aquamarine from Grassy Creek, Mitchell Co., N. Y.  
 3 " " Emerald in Matrix from Crabtree Mountain, N. C.  
 1 " " Chrysocolla, pseudomorph after Azurite, from Bisbee, Ariz.

## BY PURCHASE.

- 1 Specimen of Ankyllite from Narsarsuk, Greenland.  
 1 " " Cordylite from Narsarsuk, Greenland.  
 1 " " Domeykite from Keweenaw Co., Mich.  
 1 " " Elpidite from Narsarsuk, Greenland.  
 1 " " Enargite from Butte, Mont.  
 1 " " Epistolite from Greenland.  
 1 " " Narsarsukite from Narsarsuk, Greenland.  
 1 " " Picroallumogene from France.  
 2 " " Quartz from South Australia.  
 1 " " Sylvanite from Burra Burra, Australia.



## DEPARTMENT OF CONCHOLOGY.

### BY DONATION.

- W. BEUTENMÜLLER, New York City.  
Specimens of *Helix*, *Ferussacia*, *Mesodon*, *Patula*, *Pupa*, *Stenotrema*,  
*Vertigo* and *Zonites* from the Great Smoky Mountains, N. C.
- E. C. CAMMANN, New York City.  
A number of shells embracing *Cassis*, *Cypræa*, *Haliotis*, *Harpa*,  
*Murex*, *Oliva*, *Pteroceras*, *Strombus* and *Triton*.
- F. A. CONSTABLE, New York City.  
A collection of land and sea shells consisting of more than 200  
specimens and 60 species from Japan.  
An important section of his private cabinet, embracing about 18,000  
specimens and 4,000 species of shells.
- J. W. COONAN, Nyack, N. Y.  
1 Specimen of *Limax maximus* from Nyack, N. Y.
- DUKE OF LOUBAT, Paris.  
Specimens of *Avicula*, *Aplysia*, *Barbatia*, *Bulla*, *Cerithium*, *Cruci-*  
*bulum*, *Iaminea*, *Lithodomus*, *Olivia*, *Petricola*, *Purpura*, *Ter-*  
*ebra*, *Trivia* and *Sycotypus*.
- WALTER KRUMWIEDE, New York City.  
12 Bottles of small shells representing *Arca*, *Bulla*, *Conus*, *Colum-*  
*bella*, *Fusus*, *Olivella*, *Tellina*, *Turritella* and *Turbo* from  
Manila Bay, Philippine Islands.
- SLOMAN ROUSS, Jersey City, N. J.  
2 Specimens of *Tellina* from Cape of Good Hope.
- JOHN ROWLEY, New York City.  
1 Specimen of *Oliva litterata* from Mobile, Ala.
- HARLAN I. SMITH, New York City.  
Specimens of *Lymnæa*, *Planorbis*, *Paludina* and *Physa* from Saginaw,  
Mich.
- PROFESSOR R. P. WHITFIELD, New York City.  
2 Specimens of *Cypræa exanthema* from Nassau, Bahamas.  
1 " " *Arca occidentalis* from Bermuda.
- MRS. M. WITTHAUS, New York City.  
2 Specimens of *Cardium hians* from Algeria.  
2 " " " *pseudo-lima* from Zanzibar, Africa.  
1 " " *Voluta imperialis* from Philippine Islands.  
1 " " " *rossiniana* from New Caledonia.

### BY EXCHANGE.

- 1 Specimen of *Anodonta cygnæ* from Ireland.  
7 " " *Aplexa hypnorum* " "  
5 " " *Buliminus obscuris* " "  
89 " " *Helix* (15 species) " "  
18 " " *Hyalinia* (3 species) " "  
11 " " *Hydrobia jenkinsii* " "  
23 " " *Lymnæa* (3 species) " "  
7 " " *Physa fontinalis* " "  
7 " " *Sphærium corneum* " "  
19 " " *Succinea putris* " "  
2 " " *Unio margaritifera* " "

2	Specimens of <i>Vivipara vivipara</i> from Ireland.
1	“ “ <i>Ancillaria cinnamomea</i> from Cape of Good Hope.
1	“ “ <i>Cancellaria foveolata</i> “ “ “ “ “
2	“ “ <i>Desmoulea pyramidalis</i> “ “ “ “ “
2	“ “ <i>Pythia plicata</i> “ “ “ “ “
3	“ “ Siphonaria (3 species) “ “ “ “ “

## DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

## BY DONATION.

- E. G. WILLIAMS.  
8 Specimens of Crayfish from Nashville, Tenn.
- I. H. GOODWIN, Florida.  
2 Specimens of Coral from eastern seas.
- CAPT. C. L. FURBUSH, U. S. A., Philippine Islands.  
1 Specimen of Glass Sponge from Cebu, Philippine Islands.

## BY PURCHASE.

- 37 Siliceous Sponges from Japan.  
3 Specimens of Corals from Tahiti.  
2 Starfish from the west coast of America.

## THROUGH MUSEUM EXPEDITIONS.

- IN PATAGONIA.  
Miscellaneous Invertebrates. Collected by Barnum Brown.
- IN ALASKA.  
Miscellaneous Invertebrates. Collected by J. D. Figgins.
- IN SIBERIA.  
19 Crustaceans, 24 Mollusks, miscellaneous Invertebrates. Collected by N. G. Buxton.

DEPARTMENT OF REPTILES, BATRACHIANS  
AND FISHES.

## BY DONATION.

- C. A. DEYO, Schoharie Co., N. Y.  
1 Python.
- DR. E. O. HOVEY, New York City.  
1 Salamander from Wyandotte Cave, Ind., 2 Blindfish from Well Cave, Ind.
- NEW YORK ZOÖLOGICAL SOCIETY.  
1 *Python sebae* from Natal, South Africa.  
1 Alligator Terrapin.  
1 Tortoise from Nubia, Africa.  
1 Tortoise from Abyssinia.  
1 West Indian Terrapin.  
1 Gila Monster.  
1 Iguana.  
1 Diamond-Backed Rattlesnake from Orlando, Alabama.  
1 Cuban Boa, 1 Tortoise, 2 Turtles, 3 Pythons, 2 Rattlesnakes.

DEPARTMENT OF PARKS, New York City.

1 Python, 1 Alligator, received from Central Park Menagerie.  
1 Turtle, 1 Crocodile from Venezeula, received from the New York Aquarium.

HON. GEO. M. BOWERS, Washington, D. C.

193 Fishes from Porto Rico.

DEPARTMENT OF PARKS, New York City.

2 Parrotfish, 1 Squirrelfish, 1 Trunkfish, from Bermuda, 2 Wall-eyed Pike, 1 Yellow Perch, from Susquehanna River, 1 Eel.

F. G. BENNETT, Great Hill, Staten Island.

1 Sea Catfish.

HANS SELEMANN, Perth Amboy, N. J.

1 Burrfish from Perth Amboy, N. J.

W. I. DENYSE, Gravesend Bay, L. I.

1 Cutlassfish from Gravesend Bay.

BY PURCHASE.

1 Tarpon from the coast of Texas.

THROUGH MUSEUM EXPEDITIONS.

IN PATAGONIA.

9 Reptiles, 53 Fishes. Collected by Barnum Brown.

IN ALASKA.

10 Fishes, 1 Frog. Collected by J. D. Figgins.

IN SIBERIA.

4 Reptiles, 6 Batrachians, 143 Fishes. Collected by N. G. Buxton.



# 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 and recreation.

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



CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

---

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, shall be the Trustees to manage the affairs, property and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee, unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall

issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President and a Treasurer, all to be elected from 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, a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year, or until their successors shall be elected.

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

#### ARTICLE V.

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

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and of 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 directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

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

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

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

#### ARTICLE VI.

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four and five years, respectively, and the terms for which those drawing the two, three, four and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property of the Museum; and shall have power to purchase, sell and

exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also 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 four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name, and to take all proper measures to provide means for its support; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

ARTICLE X.

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

ARTICLE XI.

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

ARTICLE XII.

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

ARTICLE XIII.

The contribution of \$1,000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

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

#### ARTICLE XIV.

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

#### ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

Patrons giving \$1,000, are each entitled to one 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 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and 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 Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

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

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

### IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum,

except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

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.

## VI.

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.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

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

## PATRONS.

MORRIS K. JESUP.  
 ROBERT L. STUART.\*  
 Miss C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.\*  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
 JOSEPH W. DREXEL.\*  
 WILLIAM E. DODGE.\*  
 JOHN D. WOLFE.\*  
 ABRAM S. HEWITT.  
 C. VANDERBILT.\*  
 J. PIERPONT MORGAN.  
 CHARLES LANIER.  
 D. JACKSON STEWARD.\*  
 EDWARD CLARK.\*  
 A. G. PHELPS DODGE.  
 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHENIX.\*  
 BENJAMIN H. FIELD.\*  
 WILLIAM T. BLODGETT.\*  
 OLIVER HARRIMAN.  
 ROBERT BONNER.\*  
 JAMES B. COLGATE.  
 ALEXANDER STUART.\*  
 WILLIAM A. HAINES.\*  
 BENJAMIN AYMAR.\*  
 RICHARD ARNOLD.\*  
 JOSEPH H. CHOATE.  
 JONATHAN THORNE.\*  
 Miss PHEBE ANNA THORNE.  
 D. O. MILLS.  
 JOHN A. C. GRAY.\*  
 HEBER R. BISHOP.  
 CHAS. G. LANDON.\*  
 WILLIAM E. DODGE.

PETER COOPER.\*  
 WILLIAM H. ASPINWALL.\*  
 B. H. HUTTON.\*  
 J. TAYLOR JOHNSTON.\*  
 D. N. BARNEY.\*  
 I. N. PHELPS.\*  
 JAMES STOKES.\*  
 D. WILLIS JAMES.  
 EDWARD MATTHEWS.  
 WILLIAM T. GARNER.\*  
 JAMES LENOX.\*  
 A. H. BARNEY.\*  
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Prof. R. P. WHITFIELD, Curator.

EDMUND O. HOVEY, Ph.D., Associate Curator.

## *DEPARTMENT OF MAMMALOLOGY AND ORNITHOLOGY.*

Prof. J. A. ALLEN, Curator.

FRANK M. CHAPMAN, Associate Curator.

## *DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.*

Prof. HENRY FAIRFIELD OSBORN, Curator.

W. D. MATTHEW, Ph.D., Associate Curator.

O. P. HAY, Ph.D., Assistant Curator of Fishes and Chelonia.

## *DEPARTMENT OF ARCHÆOLOGY.*

Prof. FREDERIC W. PUTNAM, Advisory Curator.

MARSHALL H. SAVILLE, Curator of Mexican and Central American Archæology.

HARLAN I. SMITH, Assistant Curator of Archæology.

GEORGE H. PEPPER, Assistant in Archæology of the Southwest.

## *DEPARTMENT OF ETHNOLOGY.*

Prof. FRANZ BOAS, Curator.

Prof. LIVINGSTON FARRAND, Assistant Curator.

Dr. CLARK WISSLER, Assistant.

## *DEPARTMENT OF MINERALOGY AND CONCHOLOGY.*

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

GEORGE F. KUNZ, Honorary Curator of Gems.

## *DEPARTMENT OF INVERTEBRATE ZOÖLOGY.*

Prof. WILLIAM MORTON WHEELER, Curator.

GEORGE H. SHERWOOD, A.M., Assistant Curator.

J. E. DUERDEN, Ph.D., Honorary Curator of Cœlenterates.

## *DEPARTMENT OF ENTOMOLOGY.*

WILLIAM BEUTENMÜLLER, Curator.

## *DEPARTMENT OF PHYSIOLOGY.*

Prof. RALPH W. TOWER, Curator.

## *DEPARTMENT OF BOOKS AND PUBLICATIONS.*

Prof. RALPH W. TOWER, Curator.

## *DEPARTMENT OF MAPS AND CHARTS.*

A. WOODWARD, Ph.D., Curator.

## FORM OF BEQUEST.

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

.....

## THIRTY-FOURTH ANNUAL REPORT.

*To the Trustees and Members of the American Museum of Natural History :*

I take pleasure in submitting herewith a statement of the affairs of the Museum for the year 1902.

FINANCES.—The Treasurer's Report, given on pages 32 to 39 inclusive, presents in detail the receipts and disbursements as they appear in the several accounts.

MAINTENANCE.—By the timely increase on the part of the City of its annual appropriation for maintenance (from \$135,000 to \$160,000), the Museum has completed its year's work without calling upon the Trustees for additional funds. Moreover, the City has authorized the construction of a new power and heating station and appropriated \$200,000 therefor, and our relations with the various municipal authorities have been most satisfactory. Heretofore it has been necessary to borrow money at the beginning of each year to pay the current expenses for maintenance, pending the refunding of such sums by the City, a condition which has involved a charge for interest on loans and occasional overdrafts. At the last annual meeting of the Board, one of its members very generously gave \$15,000 to be used as capital to meet the current bills, pending their repayment by the City, the only condition of the gift being that the Treasurer's report should show a credit balance of \$15,000 at the close of each year. The terms of this gift have been fully complied with.

ENDOWMENT.—At the annual meeting of the Board of Trustees held in January, 1902, expenditures from the General and Maintenance funds were authorized, to the aggregate amount of \$210,260, involving a deficit of \$19,560. The report of the Treasurer shows that the Museum has not drawn upon this deficit, and this is the second year that the limit of the authorization of the Trustees has not been reached. Our invested funds, however, have not been materially increased, and in the absence of any large income, we have been obliged to depend upon the liberality of friends for the development of our collections; and this will of necessity continue until our endowment is largely increased.

In conformity with the recommendation of the Finance Committee, the financial transactions of the Museum are now divided into three separate accounts.

First.—City Maintenance Account, covering the receipts and disbursements of the moneys received from the City.

Second.—General Account, including the receipts and disbursements of the income from invested funds, membership and admission fees, State Superintendent of Public Instruction and contributions (not for specific purposes) received from the Trustees and others.

Third.—Endowment and Investment Account, including the receipts, investments and disbursements of moneys received from bequests, and contributions for specific purposes, such as the support of expeditions, the preparation and publication of scientific papers, the purchase of specific collections, etc. The funds received from bequests and the interest thereon are invested in securities for the Permanent Endowment.

SPECIAL FUNDS.—Special funds, such as those for the support of Eastern Asiatic Research and for the Andrew J. Stone Expedition, are kept apart, the Assistant Treasurer acting as Treasurer of the same by request of the Trustees. Separate



reports of such funds are rendered to the Trustees, and the accounts are examined by the Auditor.

BEQUESTS.—The moneys received from the bequests of Mr. Oswald Ottendorfer, Mr. Henry Villard and Mr. Joel Goldenberg, deceased, were transferred to the Endowment and Investment Account, and used for the purchase of bonds for the Permanent Endowment.

By the will of the late Samuel D. Babcock, a former member of the Museum, the Trustees will receive \$5,000.

MEMBERSHIP.—The names of 123 new annual members have been enrolled; the loss by death or resignation was 58, leaving a gain of 65.

Mr. Edward M. Shepard and the Very Rev. Eugene A. Hoffman, D.D., LL.D., were elected Patrons, and the following named persons were elected Life Members: Miss Annie Stone, Miss Catherine A. Bliss, Miss Fannie Ellen Wright, Dr. Fred. Lange and Messrs. Fordham Morris, John I. Waterbury, James F. O'Shaughnessy, E. J. de Coppet, Zenas Crane, Samuel P. Avery, Jr., Charles W. McAlpin, Alan C. Harris, William L. Conyngham, James J. Higginson, Milton Robbins, Jacob Mahler, William Demuth and C. Lincoln Free.

I wish to report officially the loss by resignation of Messrs. Elbridge T. Gerry and D. Willis James, long associated with the Museum as members of the Board of Trustees.

It is with regret that I mention the decease of the following: Heber R. Bishop, a Patron and formerly a Trustee; Mrs. William H. Osborn, a Patron; the Very Rev. Eugene A. Hoffman, D.D., LL.D., a generous giver; Gen. Egbert L. Viele, U. S. A., and Henry G. Marquand, Fellows; C. M. Bell, M. D., Thomas C. Bushnell, William L. Flanagan, John T. Metcalfe, M. D., and Hugh O'Neil, Life Members.

TRANSPORTATION.—The territory covered by our field workers has broadened with each successive year, and the cost of transportation of the men and of the material collected would be a serious item of the expense of these expeditions were it not for the cordial and generous assistance accorded

by the various railroad companies. In this relation, I desire to acknowledge our indebtedness to the following corporations:

The Southern Pacific Co.  
 Union Pacific Railroad.  
 Oregon Short Line.  
 Mexican International.  
 Mexican National and Mexican Central Railroads.  
 Pennsylvania Railroad System.  
 Erie Railroad.  
 Wabash Railroad.  
 Missouri Pacific Railway.  
 Denver & Rio Grande Railway.  
 Northern Pacific Railway.  
 Great Northern Railway.  
 Chicago, Milwaukee & St. Paul Railway.  
 Chicago & Northwestern Railway.  
 Burlington & Missouri River Railroad.  
 Southern Railway.  
 Fort Worth & Denver City Railway.  
 Colorado Southern Railway.  
 Atchison, Topeka & Santa Fé Railway System.  
 Canadian Pacific Railway.

ATTENDANCE.—The use of the collections by pupils and teachers has increased. We find that 5,000 pupils and 317 teachers (a greater number than ever before) visited the Museum for the purpose of studying the collections. The total number of visitors for the year was approximately 460,000.

The attendance on lectures to the public on holidays was 3,290; Lectures to Teachers, Spring Course, 7,232, Autumn Course, 7,420; Lectures to Members, Spring Course, 4,804, Autumn Course, 3,997.

The following scientific societies have held meetings at the Museum:

The New York Academy of Sciences.  
 (Astronomy, Physics and Chemistry; Biology; Geology and Mineralogy; Anthropology and Psychology.)  
 The Linnæan Society of New York.  
 The New York Entomological Society.  
 The New York Mineralogical Club.  
 Audubon Society.

In October, 1902, the International Congress of Americanists held its thirteenth annual session at the Museum. This is the first time that the Congress has met in this country.

The subjects discussed at the meetings of the International Congress of Americanists related to: I. The Native Races of America: their Origin, Distribution, History, Physical Characteristics, Languages, Inventions, Customs and Religions; II. The History of the Early Contact between America and the Old World.

To make the preliminary arrangements for the Congress and the discussions pertaining to the foregoing topics, a special committee was appointed, consisting of the heads of the departments of Anthropology, and your President invited the American Association for the Advancement of Science through its section of Anthropology to advise and coöperate with that committee in selecting a general commission of organization, representative of the leading institutions in the United States at which work in Anthropology is being done.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY. —The Curator's time has been spent in the regular routine work of the Department; indeed, we feel more and more the responsibility connected with the general supervision of the large collections intrusted to our care.

The work of revising the classification strips has been completed, and the labeling and identification of the Tertiary and later collections undertaken. Certain other, unlabeled, collections and a collection of casts of important fossils, donated by the Curator, have been installed.

Among the Tertiary collections, those of Miocene fossils from Patagonia, Tierra del Fuego, and vicinity, are the most important. During the summer, these collections were all worked over, put in order and prepared for exhibition. The collections are extremely interesting and valuable, quite as much because of their peculiar faunal properties as for their geographical location.

The total number of labels added to the collection during the year was 1,969.

Dr. Hay, of the Department of Vertebrate Palæontology, has worked over all the fossils, fishes and fish remains of the chronological collection. These will be included in a catalogue of fossil fish which he is compiling for publication. He has found many new and unidentified forms among the Syrian fish, upon which he is preparing an article. The palæontological department has received many valuable accessions by purchase, and one donation is worthy of special note, that is, eight specimens of Cambrian Trilobite from Professor George H. Perking of the University of Vermont.

The Department is also under obligations to Dr. Bashford Dean for his supervision of work on the restoration of Dinichthys.

Two articles were published by the Curator, one on a new form of marine Algæ, fossil in the Niagara shale, and one on a new Trilobite from the Marcellus shale, the latter credited to Professor C. H. Hitchcock, who subsequently presented the specimen to the Museum.

At the arrival of the news of the disaster in Martinique, Dr. Hovey, the Associate Curator of the Department, was immediately detailed by the President to investigate the causes of the eruptions, and in May, 1902, he sailed from New York on his first expedition to Martinique and St. Vincent. His efficient field work, quick inductions and prompt publication have not only placed the name of the Museum among the leading contributors to seismology, but his rational treatment of volcanic phenomena in general, and the eruptions of Mt. Pelé in particular, have received most favorable notice throughout the scientific press. The results of his investigations have been set forth in his paper, which has already appeared in the Bulletin.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—The Curator reports that the additions to the collections of mammals have exceeded in number and importance those of any previous year; 2,121 specimens have been added to the series of mammals. The specimens purchased consist mainly of a collection, made for the Museum by Mr. J. H.

Batty in the state of Chiriqui, Colombia, numbering 254 specimens; a collection of 78 small mammals from Costa Rica, made for the Museum by Mr. J. H. Carriker, Jr.; a collection of bats numbering 95 specimens, collected in the Bahamas and Cuba by Mr. S. H. Hamilton, and an important collection of arctic mammals made for the Museum by Capt. George Comer, in the region about Repulse Bay, Hudson Bay, including skeletons and skulls of musk-oxen, a large series of barren ground caribou, skins and skeletons of the bearded seal, etc.

The specimens obtained by the Andrew J. Stone Expedition form a most important addition to the North American collection of mammals. It comprises some fifty large, and about one thousand small mammals, among which are many species new to the Museum.

The gift from the Peary Arctic Club of about one hundred mammals collected by Commander Peary on his last arctic expedition, is especially noteworthy. It includes skins of caribou, musk-oxen, walrus, seals and polar bears, and many skulls of walrus and seals. The Museum is now doubtless by far the richest in the world in mammals from arctic America.

Donations of specimens in the flesh have been received from the New York Zoölogical Society and the Central Park Menagerie, including many important types. Special mention should be made of the gift from Messrs. Charles D. Cleveland and Marshall Maclean, of New York, of a fine series of Newfoundland caribou.

Mrs. Hannah H. Corbin has presented two mounted specimens of wild boar, and Mr. L. S. Thompson has given a remarkably large mounted head of the Alaska moose, and two mounted Rocky Mountain sheep. We are indebted to Mr. William F. Whitehouse, Jr., for a mounted specimen of the rare Abyssinian duyker antelope, a gift, and mounted heads of the African elephant and two-horned rhinoceros, placed in the Museum on loan.

The recent accessions of mammals and birds have been catalogued to date, and labeled with field data, but not all have been identified.

During the year 1902, 14 papers on mammals and birds have been published in the Museum Bulletin, and a guide leaflet on North American Ruminants has been issued.

Besides the scientific use of the material of this department by the Curator and by naturalists visiting the Museum, much material has been loaned to specialists and institutions in other cities, for which due credit is given in their publications, and similar courtesies are received from them in return for our loans. Specimens are made use of by artists at the Museum, to whom facilities are offered.

The Museum has had collectors in the West Indies, Costa Rica, northern Colombia, and in the Repulse Bay region of northeastern arctic America. Mr. Klages has continued his work in Venezuela. Mr. Chapman, the Associate Curator, has made trips, in the interest of the Museum, to the coast of Virginia and to the Bahamas, which were highly successful in securing material for special bird groups, etc.

The only expedition sent out exclusively for work in this department is the Andrew J. Stone Expedition, of which mention has been made in earlier reports. In 1902, Mr. Stone made a trip to the western end of the Alaska Peninsula to obtain accessories for the Grant Caribou group, specimens for which were collected in 1901.

New groups of birds have been given to the Museum by Mr. Cadwalader, as follows: "The Fish Hawk," "The Ptarmigan," "The Black Rail."

Dr. Bashford Dean, of Columbia University, has made it possible for the Department to come into possession of several long-tailed fowl from Japan. These will make valuable additions to our collections illustrating the results of artificial selection.

VERTEBRATE PALÆONTOLOGY.—Progress has been made in rearranging the collections so as to make them more intelligible to the public. New specimens of interest have been placed in the centre of the hall, and attention is called to them by explanatory labels, diagrams and models.

Valuable exchange collections have been received from the British Museum, and the Museums of Moscow, Bucharest, Tübingen and Buenos Aires. The mounting of new material has continued under Mr. Hermann.

Five expeditions have been maintained in the field: in Montana, Colorado, Wyoming and South Dakota. The most notable additions to the collections by these expeditions are a complete skeleton of an Upper Miocene Three-toed Horse, a fine skull and jaws of the horned Dinosaur Triceratops (skull between seven and eight feet long) and three complete skeletons of a rare Cretaceous Reptile, Champsosaurus.

The establishment of a fund by a member of the Board of Trustees, Mr. William C. Whitney, for providing material to illustrate the origin and development of the horse, has produced immediate results of the highest importance, and stimulated the work in many cognate lines.

The purchase of the Cope Collections has been effected, and all this material is now the property of the Museum. The collections include fossil reptiles, amphibians and fishes, presented by your President, and the Pampean Collection of fossil mammals of South America, presented by a number of the Trustees of the Museum. The great value of these collections has been noted in former reports. They contain a large number of complete or nearly complete skeletons of rare fossil species, among which the Sabre-Tooth Tiger, the Carnivorous Dinosaur, Duck-billed Dinosaur, and Amphibious Dinosaur, are now being prepared for exhibition.

DEPARTMENT OF ANTHROPOLOGY.—In order to have the halls in readiness for the meeting of the International Congress of Americanists, every effort was made by the officers and assistants of this department to arrange and label the collections. The collections were studied with interest by the members of the Congress during the week of the meetings, and many remarks were made upon their scientific importance and value.

During the year a number of collections not before exhibited have been installed, notably the Hyde collections from the ancient cliff-houses, burial-caves and ruined pueblos of Colorado, Utah and New Mexico.

Only a portion of the interesting and important material obtained from this expedition as the gift of Messrs. B. T. B. Hyde and F. E. Hyde, Jr., is on exhibition. It is to the Messrs. Hyde that we are also indebted for the publication of the volume of the Memoirs containing the Navajo ceremony of the Night Chant, written by Dr. Washington Matthews, a work of exceeding importance. Mr. B. T. B. Hyde has purchased the important library of the late Mr. Andrew E. Douglass, and it is now arranged in the office room of the expedition.

Among the new exhibits installed during the year is the special exhibit of a portion of the material obtained by Mr. Volk during the researches in the Delaware Valley which have been carried on under the direction of Professor Putnam for over twenty years. The expenses of the research for the past five years have been met by Dr. F. E. Hyde of the Board of Trustees. The exhibit is in a case in the west corner hall of the second floor. It seems to show conclusively that man was in the valley of the Delaware at the time that certain of the glacial deposits, and those immediately following, were made. The discoveries of human remains and implements are illustrated by photographs and diagrams.

The general North American archaeological collection, which was in storage for several years, has been arranged by Mr. Smith, who has supplemented the exhibits by descriptive labels, maps and drawings. He has also placed considerable printed and typewritten information with a number of the collections, and in various ways has made them especially instructive.

Some of the archaeological collections from New York, obtained largely through Mr. Harrington's explorations, have been arranged.

The Banelier, Garces, Gaffron and Squier collections have been re-arranged. A large and important collection from Brazil, received in November from the Duke of Loubat, will soon be installed.



In the ethnological section the re-arrangement and installation of collections has gone on as rapidly as possible, and an exceptionally large amount of installation has been completed. The arrangement of the north hall was completed in its main features. Early in the year the north side of the west hall, second floor, was cased, and the Chinese collections made by Dr. Laufer under a grant given by Mr. Jacob H. Schiff were exhibited temporarily. In the spring, work was begun on the installation of the Siberian collections of the Jesup North Pacific Expedition. The whole west corner hall was set aside for the collections from Siberia. The arrangement of the Chukchee collections and of the Koryak collections made by Mr. Bogoras has been completed.

*The Jesup North Pacific Expedition.*—The work of the Jesup North Pacific Expedition has progressed satisfactorily. During the past year, collections have been received from Mr. George Hunt, Mr. Waldemar Bogoras and Mr. Waldemar Jochelson. With the return of Messrs. Bogoras and Jochelson, the Siberian part of the expedition has been closed. The results are most gratifying.

The aim of the expedition to collect very full information on all the tribes of the North Pacific coast has in the main been accomplished, and it now remains to study the relationship of these tribes by a detailed comparison of the material collected. The whole district from Columbia River in America, westward to the Lena in Siberia, has been covered fairly exhaustively; and it is already evident that the relationship between Asia and America is much closer than had hitherto been supposed. In fact, a comparison of the customs and traditions of certain of the peoples of northeastern Asia and northwestern America indicates that in culture at least they must be regarded as one group,—a conclusion of great significance for the wider problem of the origin and development of the civilizations of the two continents. A number of special questions have resulted from these studies, to which it is desirable to give further attention. They are particularly an investigation of the Salish tribes of Puget Sound, of the

Nootka of the west coast of Vancouver Island, and of the Eskimo of Kotzebue Sound.

*The Huntington California Expedition* was continued by Mr. Dixon, and, with the co-operation of the University of California, by Mr. Kroeber. We have received additional material from the Maidu and Shasta and a collection from the Yurok on the Lower Klamath River.

*North American Research.*—Professor Livingston Farrand continued the researches among the Sahaptin which were commenced two years ago. We have obtained from him a collection illustrating the life of the Nez Percés.

Dr. Clark Wissler commenced investigations on the decorative art of the Sioux, which have given very gratifying results in the way of information and collections.

The agreement with the Bureau of American Ethnology entered into in 1901 was continued during the present year. In pursuance of this agreement, Mr. William Jones continued his work among the Sauk and Fox, whose language and ethnology he studied, making at the same time collections for the Museum.

Mr. H. H. St. Clair, 2d, continued his work among the Shoshone tribes. His linguistic work was also provided for by the Bureau of Ethnology, while the ethnological work was provided for by the Museum. He sent an interesting collection of Comanche material.

Mr. John W. Chapman, who lives as a missionary among the Athapascan Indians of the Yukon region, has undertaken to study this tribe, and to make a collection illustrating their mode of life.

Two years ago Captain George Comer and Captain James S. Mutch, who command whaling-stations in Hudson Bay and Cumberland Gulf respectively, were authorized by the Museum to make ethnological collections in the districts visited by them. The results of their work have been very gratifying, and have added materially to the value of the Eskimo collections of the Museum.

*Expedition to China.*—The East Asiatic work provided for by Mr. Jacob H. Schiff, and carried on by Dr. Berthold Laufer, has been continued during the past year. Early in the year, Dr. Laufer moved to Peking, where he collected much material relating to the daily life of the people, and at the same time made ethnological and historical studies which promise important scientific results.

*Hyde Expedition.*—Dr. Hrdlička made two expeditions to the region of the Southwest and to northern Mexico during the year, both under the patronage of the Messrs. Hyde, and the material obtained is their gift to the Museum. During these expeditions Dr. Hrdlička obtained anthropometric data and many photographs relating to twenty-one tribes in the Southwestern Territories and in northern Mexico. He also secured a large number of skulls and several skeletons from the same region, including the first Yaqui skulls known; also numerous ethnological and archæological specimens, many of special importance in filling gaps in our collections.

*Mexican Expedition.*—Mr. Saville was absent in the field from December, 1901, until May, 1902, working in the State of Oaxaca, Mexico, with funds given by the Duke of Loubat, and completed the work that he had planned for that part of Mexico. The results throw much light on the burial customs of the ancient Zapotecans, and the collections obtained from the excavation add materially to the importance of our collection in the Museum. A visit was made to Mitla and to ruins in the southern part of the Oaxaca Valley, and also to the Mixteca mountains at Nochistlan. Rare specimens of gold, copper and jadeite secured by the expedition, added to what we already have in the Museum, make this part of our Mexican collections the best in any museum.

From the Duke of Loubat, besides the material obtained from this expedition, we have received a gem collection of great importance from the state of Oaxaca. From Mr. Mañer we have received several pieces of Maya pottery from Yucatan and Tabasco; and from Mr. Chavero, a post-Columbian codex of considerable interest.

*Local Explorations*—Mr. Harrington visited the Shinnecock and Poosepatuck Reservations on Long Island and Staten Island, during June and July, and at Shinnecock Hills he explored an ancient village site,—a series of shell heaps. Trenches were dug, and “ash pits” opened.

Although the number of publications issued during the past year is not large, much progress has been made in the preparation of material.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.—The headquarters of this department have been removed to the fourth floor, and a room for laboratory work and storage has been provided in the basement.

The labeling of the collection of minerals on exhibition, a thorough arrangement of overflow material, now in drawers under the cases, a selection of a second, very small, group of duplicates, the completion of the explanatory rubrics throughout the cases, and a beginning upon the exhaustive card catalogue, marks the labor of the department.

The gem collection continues to be most popular. One record is given of 1,000 visitors in a day. During the past year five magnificent crusts of amethyst have been added, from Rio Grande do Sul, Brazil, and also a large yellow sapphire, two parti-colored sapphires, an immense star sapphire, and a curious archaic axe of agate, gifts of Mr. J. Pierpont Morgan. Besides these a collection of very attractive series of polished agates has been received. A card catalogue of the gems has been completed, comprising almost 2,000 cards.

A splendid collection of gold and silver coins from the Philadelphia mint, given by Mr. J. Pierpont Morgan, has been placed in the Gem Room.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—We regret that the capacity of the building and the limitation of our funds prevent the symmetrical development of all that goes to make up a Museum of Natural History. We not only have large collections that await adequate exhibition space, but there are departments of natural history that thus far have received but little attention. They have not been

forgotten, however, and it is our purpose to so plan our work that all will finally receive proper treatment.

The Department of Invertebrate Zoölogy was established two years ago, and since that time the invertebrate collections of the Museum have been gotten together; new material has been added, and the exhibit in the south-east hall of the ground floor will soon be open to the public.

Professor William Morton Wheeler, at one time Director of the Public Museum at Milwaukee, and a scientist of high standing, will soon take charge of this department.

For a long time we have felt the need of providing exhibits to illustrate in a comparative way the structure of the human body, *i. e.*, collections that will illustrate the resemblances and differences between man and the lower animals, and that will illustrate also the anatomical differences between the various races of man. We should also have material to illustrate the development and the functional activity of the special sense organs. There is a constant demand for such collections on the part of teachers, and we think no one questions their high educational value. Now that Professor Tower, a well-known physiologist, has taken a place on our scientific staff, and Professor Wheeler will soon be with us, it seems expedient to assign temporarily, until proper space can be found elsewhere, the south-west room on the main floor to collections of this nature.

The most important accession of invertebrate animals is a collection of *cœlenterates*. This collection consists of about 200 specimens of West Indian corals, Actinians and Alcyonarians, collected by Dr. Duerden in Jamaica, and includes many co-types of species described by him in various papers.

All the *cœlenterates* have been worked over by Dr. Duerden, and many of the specimens named and mounted with a view to illustrate their general biological characteristics. Arrangements have been made for several additions, including a collection of Beaufort Actinians from Dr. J. J. Hamaker, a collection of Porto Rican corals, identified by T. Wayland Vaughan for the U. S. F. C., and specimens of *cœlenterates* from Woods Hole.

Through the courtesy of Hon. George M. Bowers, of the United States Fish Commission, the Museum has received a collection of 21 duplicate specimens of named Actinians from Porto Rico. Practically all the specimens of these two collections are alcoholic, and make a most valuable addition to our already magnificent collection of West Indian cœlenterates, the greater part of which was obtained by Professor R. P. Whitfield. A collection of invertebrate animals from the Gulf of California has been given to the Museum by the Duke of Loubat.

All the invertebrate material of this department has been thoroughly overhauled, classified, and placed in alcoves in the exhibition hall, and card catalogues of the various groups have been started.

The department has continued to have charge of the Reptiles, Batrachians and Fishes, in addition to the invertebrate animals.

Several interesting and important additions have been made to our collection of fishes. From Hon. George M. Bowers, the department has received specimens (co-types) of a new genus and species of fish, *Mistichthys luzonensis*, from the Philippine Islands, the smallest known vertebrate. Special mention should be made of the donations of Mr. John Hiscox, who has given many specimens which were required in experiments on the preservation of fish. A good nucleus of a collection of common food fishes was secured by Messrs. Sherwood and Figgins, who spent several weeks during the summer at Woods Hole.

The New York Zoölogical Society and the Department of Parks have been the principal donors of reptiles and batrachians.

The following papers have been published during the year: "Boring Algæ as Agents in the Disintegration of Corals," by J. E. Duerden; "The Sequoia: A Historical Review of Biological Science" by George H. Sherwood.

DEPARTMENT OF ENTOMOLOGY.—The Curator of Entomology reports that the Hoffman Collection of Butterflies has been transferred to the new cases. He states that 4,600 specimens of Coleoptera and Lepidoptera were numbered and

catalogued; 6,000 Coleoptera and 500 Lepidoptera were mounted. The Schauss Collection of Moths was provisionally arranged, and many species of insects identified for collectors and for those asking for the assistance of the department.

The material obtained during a five weeks' visit to the Black Mountains numbers fully 7,000 specimens. The expense of this expedition was defrayed by the Very Reverend Eugene A. Hoffman, D.D., LL.D.

The following publications have been issued by the Department: "The Butterflies of the Vicinity of New York City"; "Descriptive Catalogue of the Noctuidæ found within Fifty Miles of New York City"; "The Earlier Stages of Some Moths"; "Descriptions of some Larvæ of the Genus *Catocala*."

The death of the Very Reverend Eugene A. Hoffman removed a warm friend of the Museum, and a substantial support from the Department of Entomology. Only a few weeks before his decease, he commissioned the Director to visit Reading, Pennsylvania, to examine a large collection of Lepidoptera, and if really worth the price set upon it (\$20,000) to purchase and bring it back to the Museum. The collection was examined, but in view of the price set upon it and the large collections already in our possession, the Director did not encourage its purchase.

**LIBRARY.**—The development of this department of the Museum has necessitated certain administrative changes. Dr. Woodward has been appointed Curator of Maps and Charts, and Professor Ralph W. Tower, formerly of Brown University, has been appointed Curator of Books and Publications. Professor Tower took office early in December.

As in the past, the library has been in constant use by members of the scientific staff, by scientists, students and others.

Some most valuable additions have been received from Professor H. F. Osborn, the Duke of Loubat, Gen. Egbert L. Viele, Gen. J. Watts de Peyster, Frederick A. Constable, Mrs. M. Schuyler Elliot, Mrs. C. V. Riley, Hon. William Astor Chanler, the New York State Department of Public Instruction, the Indiana State Library, and the Government

of India; and numerous publications have been received in exchange for publications of the Museum.

PUBLICATIONS.—The publication of the scientific results attending the investigations carried on by the Museum has progressed as in the past.

Two numbers of the *Memoirs* have been issued. The first, *The Night Chant*, by Washington Matthews, was prepared and issued through the generosity of Mr. F. E. Hyde, Jr. The second, *Kwakwiltl Texts*, by Franz Boas, was issued by the Museum.

The publication of *The American Museum Journal* has continued; nine numbers, and six illustrated leaflet supplements having been issued:

*Guide Leaflets.*

- “The Hall of Fossil Vertebrates”.....W. D. Matthew  
 “The Collection of Minerals”.....L. P. Gratacap  
 “North American Ruminants”.....J. A. Allen  
 “The Ancient Basket Makers of Southeastern Utah”.....Geo. H. Pepper  
 “The Butterflies of the Vicinity of New York City”....,William Beutenmüller  
 “The Sequoia; A Historical Review of Biological Science”...G. H. Sherwood

The *Bulletin* matter published during 1902 has exceeded that of any previous year.

The following is a complete list of the scientific publications:

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALEONTOLOGY.

*Bulletin*, Volume XVI.

R. P. Whitfield. “Description of a New Form of *Myalina* from the Coal Measures of Texas.” (Pages 63-66, with 2 text figures.)

R. P. Whitfield. “Observations on and Emended Description of *Heteroceras simplicostatum* Whitfield.” (Pages 67-72, plates xxiii-xxvii.)

R. P. Whitfield. “Description of a New *Teredo*-like Shell from the Laramie Group.” (Pages 73-76, plates xxviii and xxix, and 1 text figure.)

Edmund Otis Hovey. “Martinique and St. Vincent; a Preliminary Report upon the Eruptions of 1902.” (Pages 333-372, plates xxxiii-li, and 1 text figure.)

R. P. Whitfield. “Notice of a new Genus of Marine Algæ, Fossil in the Niagara Shale.” (Pages 399-400, plate liii.)

F. B. Loomis. “On Jurassic Stratigraphy on the West Side of the Black Hills.—Second Paper on American Jurassic Stratigraphy.” (Pages 401-408, plates liv and lv.)



## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

*Bulletin*, Volume XVI.

E. W. Nelson. "A New Species of Elk from Arizona." (Pages 1-12, with 7 text figures.)

J. A. Allen. "Zimmermann's 'Zoologie Geographicae' and 'Geographische Geschichte' considered in their Relation to Mammalian Nomenclature." (Pages 13-22.)

J. A. Allen. "The Generic and Specific Names of some of the Otariidæ." (Pages 111-118.)

J. A. Allen. "A New Caribou from the Alaska Peninsula." (Pages 119-128, with 6 text figures.)

J. A. Allen. "A New Bear from the Alaska Peninsula." (Pages 141-144, plates xxx and xxxi.)

J. A. Allen. "A New Sheep from the Kenai Peninsula." (Pages 145-148, with 2 text figures.)

J. A. Allen. "Description of a New Caribou from Northern British Columbia, and Remarks on *Rangifer montanus*." Pages 149-158, with 6 text figures.)

J. A. Allen. "Nomenclatorial Notes on American Mammals." (Pages 159-168.)

J. A. Allen. "List of Mammals collected in Alaska by the Andrew J. Stone Expedition of 1901." (Pages 215-230.)

Frank M. Chapman. "List of Birds collected in Alaska by the Andrew J. Stone Expedition of 1901." (Pages 231-248.)

J. A. Allen. "A Preliminary Study of the South American Opossums of the Genus *Didelphis*." (Pages 249-280.)

J. A. Allen. "Mammal Names proposed by Oken in his 'Lehrbuch der Zoologie.'" (Pages 373-380.)

J. A. Allen. "A New Caribou from Ellesmere Land." (Pages 409-412, with 2 text figures.)

J. A. Allen. "The Hair Seals (Family Phocidæ) of the North Pacific Ocean and Bering Sea." (Pages 459-499.)

## DEPARTMENT OF VERTEBRATE PALEONTOLOGY.

*Bulletin*, Volume XVI.

Henry Fairfield Osborn. "Dolichocephaly and Brachycephaly in the lower Mammals." (Pages 77-90, with 5 text figures.)

Henry Fairfield Osborn. "The Four Phyla of Oligocene Titanotheres." Titanothere Contributions, No. 4. (Pages 91-110, with 13 text figures.)

W. D. Matthew. "A Skull of *Dinocyon* from the Miocene of Texas." (Pages 129-136, with 4 text figures.)

W. D. Matthew. "On the Skull of *Bunelurus*, a Musteline from the White River Oligocene." (Pages 137-140, with 3 text figures.)

Henry Fairfield Osborn. "American Eocene Primates, and the supposed Rodent Family Mixodectidæ." (Pages 169-214, with 40 text figures.)

W. D. Matthew. "New Canidæ from the Miocene of Colorado." (Pages 281-290, with 4 text figures.)

W. D. Matthew. "A Horned Rodent from the Colorado Miocene. With a Revision of the Mylagauli, Beavers, and Hares of the American Tertiary." (Pages 291-310, with 17 text figures.)

W. D. Matthew. "The Skull of *Hypisodus*, the smallest of the Artiodactyla, with a Revision of the Hypertragulidæ." (Pages 311-316, with 4 text figures.)

W. D. Matthew. "List of the Pleistocene Fauna from Hay Springs, Nebraska." (Pages 317-322.)

DEPARTMENT OF ANTHROPOLOGY.

*Memoirs*, Volume V.

Franz Boas and George Hunt. "Kwakiutl Texts." (Pages 271-402.)

Volume VI.

Washington Matthews. "The Night Chant, a Navaho Ceremony." (Pages 1-316, plates i-viii, and 19 text figures.)

*Bulletin*, Volume XVI.

Alés Hrdlička. "The Crania of Trenton, New Jersey, and their bearing upon the Antiquity of Man in that Region." (Pages 23-62, plates i-xxii, and 4 text figures.)

Volume XVII.

Roland B. Dixon. "Basketry Designs of the Indians of Northern California." (Pages 1-32, plates i-xxxvii.)

Roland B. Dixon. "Maidu Myths." (Pages 33-118.)

Volume XVIII.

A. L. Kroeber. "The Arapaho." (Pages 1-150, plates i-xxxi, and 46 text cuts.)

DEPARTMENT OF INVERTEBRATE ZOOLOGY.

*Bulletin*, Volume XVI.

J. E. Duerden. "Boring Algæ as Agents in the Disintegration of Corals." (Pages 323-332, plate xxxii.)

DEPARTMENT OF ENTOMOLOGY.

*Bulletin*, Volume XVI.

William Beutenmüller. "Descriptions of some Larvæ of the Genus *Catocala*." (Pages 381-394.)

William Beutenmüller. "The Earlier Stages of Some Moths." (Pages 395-398, plate lii.)

William Beutenmüller. "Descriptive Catalogue of the Noctuidæ found within Fifty Miles of New York City." Part II. (Pages 413-458, plates lvi-lix.)

LECTURES.—The different lectures that the Museum, through Professor Bickmore (and under a grant from the State) has provided for the teachers of New York now number 398, upon 205 different subjects. During 1902, the lectures were as follows:

*Spring Course.*

January	25—	Naples, Pompeii and Rome and their Museums.
February	1—	Naples, Pompeii and Rome and their Museums.
"	8—	The Eastern Riviera.
"	15—	The Eastern Riviera.
March	1—	The Upper Rhine.
"	8—	The Upper Rhine.
"	15—	The Lower Rhine.
"	22—	The Lower Rhine.

*Autumn Course.*

October	18—	The Swiss Alps.
"	25—	The Swiss Alps.
November	1—	The French Alps.
"	8—	The French Alps.
"	15—	Historic Towns of Central France.
"	22—	Historic Towns of Central France.
"	29—	Historic Towns of Southern France and the French Riviera.
December	6—	Historic Towns of Southern France and the French Riviera.

The following were delivered to members of the Museum:

February	20—	Naples, Pompeii and Rome and their Museums.
"	27—	The Eastern Riviera.
March	6—	The Upper Rhine.
"	13—	The Lower Rhine.
November	20—	The Swiss Alps.
December	4—	The French Alps.
"	11—	Historic Towns of Central France.
"	18—	Historic Towns of Southern France and the French Riviera.

The following were delivered to the general public:

New Year's Day, January 1, 1902—	London: The City and the Thames.
Washington's Birthday, February 22, 1902—	The Rhine.
Thanksgiving Day, November 27, 1902—	The Swiss Alps.
Christmas Day, December 25, 1902—	The French Alps.

In coöperation with the Audubon and Linnæan Societies, the Museum offered to teachers a series of eight informal talks on birds, illustrated by specimens which could be handled freely for purposes of comparison and discussion. The lectures were given on Saturday afternoons. The subjects and speakers were as follows:

April 5 and 12—	The Birds of Early Spring.....	Frank M. Chapman
April 19 and 26—	The Birds of April.....	William Dutcher
May 3 and 10—	The Birds of Early May.....	Dr. J. Dwight, Jr.
May 17 and 24—	The Birds of late May, and Birds' Nests....	C. William Beebe

The Museum has continued to cooperate with the Board of Education. The following lectures were delivered.

		Tuesday evenings.	
January	7—	Greenland.....	W. E. Meehan
"	14—	The Yellowstone National Park.....	Miss Mary V. Worstell
"	21—	The Indians of the Wild Northwest: Their Haunts; Their Sports; Their Homes.....	Egerton R. Young
"	28—	The Cliff- and Cave-Dwellers of the Southwest.....	F. S. Dellenbaugh
February	4—	The State of New York, and its Remarkable Natural Features.....	W. C. Peckham
"	11—	Flashes of Light on Vankee Land. A Description of Central New England.....	George W. Bicknell
"	18—	In the Heart of the Rockies.....	Jacques W. Redway
"	25—	The Black Hills and Bad Lands of South Dakota and Wyoming.....	E. O. Hovey
March	4—	Alaska.....	John P. Clum
"	11—	The Mississippi Valley and the Southern States.....	S. T. Willis
"	18—	Seeking Peary and the Pole.....	H. L. Bridgman
"	25—	Pennsylvania.....	W. E. Meehan
April	1—	In the Land of the Red Men, as they Were and Are. With Glimpses of Prairies, Mountains, Lakes and the Glorious Northern Auroras.....	Egerton R. Young
"	8—	Florida.....	W. E. Meehan
"	15—	In the Wake of the Setting Sun.....	John P. Clum
"	22—	The Nicaragua Canal.....	W. E. Simmons
"	29—	Hawaii.....	John C. Bowker
October	7—	New Zealand.....	Dr. John C. Bowker
"	14—	Contrasts. (A study of the customs of people in many lands compared and contrasted by phrase and picture).....	Dr. John C. Bowker
"	21—	Japan.....	Dr. Wm. E. Griffin
"	28—	China.....	Dr. Kenneth F. Junor
November	4—	Manners and Customs of Hindus. (Illustrated by costumes).....	Mrs. Helen M. Jackson
"	11—	New Things we have Learned about Africa.....	Cyrus S. Adams
"	18—	The Vale of Cashmere.....	A. C. Maclay
"	25—	Persia.....	Joel Werda
December	2—	The Bedouins of the Euphrates.....	Mrs. J. H. Haynes
"	9—	Jerusalem and Her Environs.....	S. W. Naylor
"	16—	Cairo.....	G. C. Mars
		Saturday evenings.	
January	4—	An Evening in the American Museum of Natural History.....	Harlan I. Smith
"	11—	The New York Aquarium. (A description of the fine fish collection at the Battery).....	Charles L. Bristol
"	18—	Bronx Park. (A description of the Park and the New York Botanical Gardens.).....	Miss Mary V. Worstell
"	25—	The Zoölogical Garden. (A description of New York's great Zoölogical Garden at Bronx Park.).....	Henry F. Osborn
February	1—	The Reign of Fire. The first of a course of four lectures on "The Story of the Earth.".....	W. T. Elsing
"	8—	The Warfare of Water.....	W. T. Elsing
"	15—	The Great Ice Age.....	W. T. Elsing
"	22—	The Earth and Man.....	W. T. Elsing

March	1—Life of a World. (An explanation of some important facts in geology).....	Jacques W. Redway
“	8—Industrial Regions of the United States.....	Jacques W. Redway
“	15—Man's Relation to Rivers and River Valleys.....	Richard E. Dodge
“	22—Man's Relation to Mountains and Plains.....	Richard E. Dodge
“	29—Life in the Deserts.....	Richard E. Dodge
April	5—Great Ports of the World.....	Cyrus C. Adams
“	12—How to Know the Common Trees.....	John W. Moyer
“	19—Where Lumber Comes From.....	John W. Moyer
“	26—Home Gardening.....	Miss Louise Klein Miller

Four lectures by Dr. Henry E. Crampton on “Some Interesting Aspects of Evolution.”

October	18—The Problem of Evolution.	
	25—Interesting Facts showing Evolution.	
November	1—Interesting Facts showing the Method of Evolution.	
	8—Method. (Conclusion and Summary.)	
	15—Earthquakes.....	Cyrus C. Adams.
	22—Volcanoes.....	Dr. E. O. Hovey
	29—Martinique.....	George Donaldson
December	6—Ants and Bees.....	W. T. Elsing
	13—Snakes.....	Wm. Harper Davis

In concluding this my twenty-second report, I take pleasure in assuring the members of this Board that the past year has been one of achievement. The increase in the annual appropriation, the growing popularity of the lectures, the large sums spent for laboratory research, the long list of publications, the opening of new exhibition halls, the appropriation by the city of \$200,000 for a new power house, the receipt of large invoices of ethnological material from Siberia and China, the conclusion of negotiations leading to the purchase of the Cope Collection, and the departure of several exploring expeditions are only a few of the indices of activity at the Museum, of the generosity of our friends, and of appreciation on the part of the City officers and the visiting public.

The thirty-fourth year of the American Museum of Natural History is now brought to a close. With thanks to you for your cordial co-operation, I am,

Very truly yours,

MORRIS K. JESUP,  
*President.*

# FINANCIAL STATEMENT.

## *PERMANENT ENDOWMENT.*

General Fund.....		\$415,000 00
JOHN B. TREVOR Fund .....		10,000 00
JOSIAH M. FISKE Fund.....		10 000 00
		\$435,000 00

	RECEIPTS.	DISBURSEMENTS.
Eastern Asiatic Research Fund.....	18,720 73	11,533 00
ANDREW J. STONE EXPEDITION.....	11,257 89	8,768 51

## SPECIAL FUNDS.

### *ANDREW J. STONE EXPEDITION FUND.*

#### RECEIPTS.

Cash on hand January 1, 1902.....		\$3,398 19
Estate of James M. Constable.....		2,000 00
Contributions received through Madison Grant, 1902-03.		2,050 00
Rebates .....		30 73
Interest on Credit Balances.....		118 43
		\$7,597 35

#### DISBURSEMENTS.

Andrew J. Stone, salary, expenses in the field, etc....		\$4,773 45
Stationery, freight, insurance, etc.....		61 47
Specimens purchased.....		180 00
Wages, transportation, etc.....		93 05
		5,107 97
Cash on hand December 31, 1902.....		\$2,489 38

JOHN H. WINSER, *Treasurer.*

Correct.—E. L. MASSETT, *Auditor.*

NEW YORK, *December 31, 1902.*

*EASTERN ASIATIC RESEARCH FUND.*

RECEIPTS.

Cash on hand January 1, 1902. ....	\$15,320 65	
Sale of Publications. ....	52 91	
Interest on Credit Balances. ....	343 93	
	<hr/>	\$15,717 49

DISBURSEMENTS.

Berthold Laufer, salary, expenses of expedition, purchase of specimens, etc. ....	\$8,338 92	
Sundry bills, cable tolls, freight, insurance, etc. ....	190 84	8,529 76
	<hr/>	
Cash on hand December 31, 1902. ....		<u>\$7,187 73</u>

JOHN H. WINSER, *Treasurer.*

Correct.—E. L. MASSETT, *Auditor.*

NEW YORK, *December 31, 1902.*

CITY MAINTENANCE.

RECEIPTS.

Temporary loan.....	\$13,000 00	
"    "    General Account.....	7,000 00	
Capital Account.....	15,000 00	
Interest on Balances.....	151 74	
		<hr/>
		35,151 74
Department of Parks.....		160,000 00

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\$195,151 74

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Examined                    { ANSON W. HARD, }  
and approved.            { GEORGE G. HAVEN, } *Auditing*  
                                  { GUSTAV E. KISSEL. }        *Committee.*

Correct.—E. L. MASSETT, *Auditor.*



CITY MAINTENANCE.

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	6,254 08	
Mammalogy and Ornithology.....	7,180 41	
Mineralogy.....	2,940 06	
Vertebrate Palæontology.....	12,785 12	
Anthropology.....	19,946 89	
Entomology.....	3,003 60	
Invertebrate Zoölogy.....	4,072 17	
Library.....	2,681 83	
Publications.....	2,019 08	
Preservation and Exhibition.....	8,831 53	
General Supplies and Expenses.....	4,237 98	
Heating and Lighting.....	22,191 04	
Repairs and Installation.....	22,919 86	
Administration.....	40,936 35	
	<hr/>	\$160,000 00
Payment temporary loan.....	13,000 00	
“ “ “ General Account.....	7,000 00	
Interest on Balances, transferred to General Account.	151 74	
	<hr/>	20,151 74
Cash on hand December 31, 1902.....		15,000 00
		<hr/>
		\$195,151 74
		<hr/> <hr/>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, December 31, 1902.



GENERAL.

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$1,449 64
Mammalogy and Ornithology.....	5,695 24
Mineralogy.....	595 94
Vertebrate Palæontology.....	7,735 33
Anthropology.....	10,036 77
Entomology.....	215 37
Invertebrate Zoölogy.....	708 76
Library.....	1,278 92
Publications.....	12,391 41
Preservation and Exhibition.....	597 17
General Supplies and Expenses.....	9,699 27
Department of Public Instruction.....	9,376 80
Jesup North Pacific Expedition.....	455 35
Temporary loan to Maintenance Account.....	7,000 00
Interest on Debit Balances.....	6 52
	<hr/>
	\$67,242 49
Cash on hand December 31, 1902.....	4,896 92
	<hr/>

\$72,139 41

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, December 31, 1902.

ENDOWMENT AND INVESTMENT.

RECEIPTS.

Morris K. Jesup.....		\$1,329 62
Morris K. Jesup, Jesup North Pacific Expedition.....		6,856 35
Morris K. Jesup, Cope Collection of Reptiles, Batrachians and Fishes.....		18,550 00
Morris K. Jesup, Porcupine River Expedition.....		200 00
Mrs. M. K. Jesup, North American Indian Research Publications.		220 00
International Congress of Americanists Fund:		
Morris K. Jesup.....	\$1,250 00	
Joseph F. Loubat.....	1,250 00	
Subscriptions from Members.....	575 60	
		3,075 60
Investment Fund:		
Bequest of Oswald Ottendorfer.....	\$25,000 00	
"    Henry Villard.....	5,000 00	
"    Joel Goldenberg.....	1,900 00	
Interest on Balances.....	308 57	
		32,208 57
Pampean Collection of Fossils, 1901.....	\$8,000 00	
Contribution by Prof. Henry F. Osborn.....	2,000 00	
		10,000 00
Joseph F. Loubat:		
Loubat Collection of Mexican Jadeites.....	\$350 00	
Brazilian Ethnological Collection.....	1,500 00	
		1,850 00
Dr. Frederick E. Hyde, Delaware Valley Research.....	1,000 00	
Hyde Exploration Fund, B. T. Babbitt Hyde, Fred. E. Hyde, Jr.	2,900 00	
Hyde Expedition Publication Fund, Fred. E. Hyde, Jr.....	2,184 97	
Wm. C. Whitney, Fossil Horses Collection.....	5,993 78	
George Foster Peabody, Steiner Collection of Indian Antiquities.	1,000 00	
Mrs. C. P. Huntington Fund, balance, 1901.....	547 27	
Archer M. Huntington Fund, balance, 1901.....	144 83	
Huntington California Indian Fund:		
Mrs. C. P. Huntington.....	\$750 00	
Archer M. Huntington.....	750 00	
		1,500 00
L. M. Goldberger, Oregon and Yukon River Ethnographical Research.....	1,133 00	
John L. Cadwalader, Bird Groups, balance, 1901.....	778 82	
William Demuth, Collection of Pipes.....	200 00	
North American Indian Research.....	72 23	
Very Rev. E. A. Iffman, D.D., LL.D., Hoffman Black Mountain Expedition.....	200 00	
N. Y. State Archaeological Research.....	60 00	
Percy R. Pyne, Audubon Paintings.....	50 00	
Matilda W. Bruce, Mineral Specimens.....	50 00	
Interest on Credit Balances.....	454 82	
		\$92,559 86

Examined } ANSON W. HARD, } Auditing  
 and Approved. } GEORGE G. HAVEN. } Committee.  
 } GUSTAV E. KISSEL. }

Correct.—E. L. MASSETT, Auditor.

ENDOWMENT AND INVESTMENT.

DISBURSEMENTS.

Jesup North Pacific Expedition.....	\$6,856 35
Cope Collection of Reptiles, Batrachins and Fishes.....	18,550 00
Porcupine River Expedition.....	200 00
North American Indian Research Publications.....	220 00
International Congress of Americanists Fund.....	1,394 85
Investment Fund:	
Atchison, Topeka & Santa Fe Railway Co., Serial Debenture Bonds 4%, \$35,000.....	32,182 66
Cope Pampean Collection of Fossils.....	10,000 00
Loubat Collection of Mexican Jadeites.....	350 00
Brazilian Ethnological Collection.....	1,500 00
Delaware Valley Research.....	927 00
Hyde Exploration Fund.....	2,900 00
Hyde Expedition Publication Fund.....	2,184 97
Wm. C. Whitney Fund, Fossil Horses.....	5,955 15
Steiner Collection of Indian Antiquities.....	1,000 00
Mrs. C. P. Huntington Fund.....	422 94
Archer M. Huntington Fund.....	96 37
Huntington California Indian Fund.....	1,491 00
Oregon and Yukon River Ethnographical Research.....	933 00
John L. Cadwalader Fund.....	753 31
Wm. Demuth Collection of Pipes.....	176 48
North American Indian Research.....	72 23
Hoffman Black Mountain Expedition.....	200 00
N. Y. State Archaeological Research.....	60 00
Audubon Paintings.....	50 00
Mineral Specimens.....	50 00
Cash on hand December 31, 1902.....	4,033 55

\$92,559 86

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, December 31, 1902.









	Volumes.	Parts and Numbers.	Pamphlets.
J. H. Winsor, New York City . . . . .	1		
Mrs. R. A. Witthaus, New York City . . . . .	10		2
Lewis Woolman, Philadelphia, Penn. . . . .	1		
L. G. Yates, Santa Barbara, Cal. . . . .			1
Agricultural Experiment Station, Montgomery, Ala. . . . .	2		
Arizona Agricultural Experiment Station, Tucson, Ariz. . . . .	2		1
California Agricultural Experiment Station, Berkeley, Cal. . . . .	3		
San Francisco Public Library, San Francisco, Cal. . . . .	1		
Bridgeport Public Library, Bridgeport, Conn. . . . .			1
Hartford Steam Boiler Inspection and Insurance Co., Hartford, Conn. . . . .	6		
Delaware College Agricultural Experiment Station, Newark, Del. . . . .	6		
Florida Agricultural Experiment Station, Lake City, Fla. . . . .	4		
Idaho Experiment Station, Moscow, Idaho. . . . .	4		
University of Illinois, Urbana, Ill. . . . .	1		
Board of State Charities of Indiana, Indianapolis, Ind. . . . .	5		
Indiana State Library, Indianapolis, Ind. . . . .	1		
Iowa Board of Railroad Commissioners, Des Moines, Ia. . . . .	1		
Iowa State Horticultural Society, Des Moines, Ia. . . . .	3		
Kentucky Agricultural Experiment Station, Lexington, Ky. . . . .	1	7	
Geological Survey of Louisiana, Baton Rouge, La. . . . .	1		
Louisiana State Experiment Station, Baton Rouge, La. . . . .	1		
Tulane University of Louisiana, New Orleans, La. . . . .	1		
Maryland Agricultural Experiment Station, College Park, Md. . . . .	1	17	
Massachusetts Bureau of Statistics of Labor, Boston, Mass. . . . .	1		
Massachusetts Horticultural Society, Boston, Mass. . . . .	2	2	
Museum of Fine Arts, Boston, Mass. . . . .	2		
Cambridge Philosophical Society, Cambridge, Mass. . . . .	3		
Registration and Trust Company, Cambridge, Mass. . . . .			1
Commonwealth of Massachusetts, Millbury, Mass. . . . .			1
Archæological Institute of America, Norwood, Mass. . . . .	3		
Michigan State Agricultural College Experiment Station, Agricultural College, Mich. . . . .	8		
Michigan Bureau of Labor and Industrial Statistics, Lansing, Mich. . . . .	1		
Michigan State Treasurer, Lansing, Mich. . . . .	1		
University of Minnesota Agricultural Experiment Station, St. Anthony Park, Minn. . . . .	3		
Webb Publishing Co., St. Anthony Park, Minn. . . . .	10		
Mississippi Agricultural College, Starkville, Miss. . . . .	1		
Missouri State Horticultural Society, Jefferson City, Mo. . . . .	1		
Washington University, St. Louis, Mo. . . . .	1		
University of Montana, Missoula, Mont. . . . .	1		
University of Nebraska Agricultural Experiment Station, Lincoln, Neb. . . . .	20		
New Hampshire Historical Society, Concord, N. H. . . . .	1		
New Jersey Free Public Library, Newark, N. J. . . . .	3		
New Jersey Historical Society, Paterson, N. J. . . . .	1		
Bureau of Labor Statistics, Albany, N. Y. . . . .	1		
New York Board of Mediation and Arbitration, Albany, N. Y. . . . .	1		

	Volumes.	Parts and Numbers.	Manuscripts.
New York State Board of Health, Albany, N. Y. ....	2	11	
New York State Commissioner of Excise, Albany, N. Y. ....	2		1
New York State Department of Labor, Albany, N. Y. ....		4	1
New York State Department of Public Instruction, Albany, N. Y. ....	30		
New York State Factory Inspectors, Albany, N. Y. ....	1		
New York State Superintendent of Banks, Albany, N. Y. ....	2		
Brooklyn Daily Eagle, Brooklyn, N. Y. ....	1		
Institute of Arts and Sciences, Brooklyn, N. Y. ....	1		1
Grosvenor Library, Buffalo, N. Y. ....	1		
Pan-American Exposition, Buffalo, N. Y. ....	1		
New York Agricultural Experiment Station, Geneva, N. Y. ....		29	
Cornell University Agricultural Experiment Station, Ithaca, N. Y. ....	1	10	
New York State College of Forestry, Ithaca, N. Y. ....		3	1
Aguilar Free Library Society, New York City. ....	1		
American Society for the Prevention of Cruelty to Animals, New York City. ....	1	10	
Auk (The), New York City. ....	1		
Automobile Club, New York City. ....		42	
Deutsche Poliklinik, New York City. ....		1	
New York Central and Hudson River Railroad, New York City. ....			1
New York City Department of Parks, New York City. ....	1		
New York Dispensary, New York City. ....	1		
New York Entomological Society, New York City. ....		3	
New York Historical Society, New York City. ....	1		
New York Meteorological Observatory, New York City. ....			1
New York Post-Graduate Medical School, New York City. ....		9	
New York Scientific Alliance, New York City. ....		3	
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Department of Parliamentary Papers, Ottawa, Canada. . . . .	25	5	3
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399 Volumes, 1,672 Numbers and Parts and 186 Pamphlets.

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DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
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Sand from La Soufrière.
- H. H. T. JACKSON, Milton, Wis.  
1 Specimen of *Raphistoma*.
- H. MAXWELL, Lefroy, Barbadoes.  
18 Samples of volcanic Dust.
- H. C. C. LEONHAUSER, Teller City, Alaska.  
Gold-bearing Sand.
- T. MACGREGOR MACDONALD, Kingstown, St. Vincent.  
Samples of volcanic Sand.
- ONTARIO TALC CO., Gouverneur, N. Y.  
Samples of Talc, Plumbago and Steatite.
- GEO. H. PERKINS, University of Vermont, Burlington, Vt.  
8 Specimens of *Ogygia*.
- MRS. M. B. STREETER, Brooklyn, N. Y.  
Specimens of Rhyolite, Obsidian and Chalcedony.

BY PURCHASE.

- 237 Specimens of fossils.  
1 " " orbicular Granite.  
2 " " Granite with trap dikes.

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New York City.
- 1 Large breadcrust bomb from Mt. Pelé (2,321 lbs.), and a series of  
smaller bombs, blocks, hand-specimens and dust from Martinique  
and St. Vincent. Collected by E. O. Hovey.

DEPARTMENT OF MAMMALOGY AND ORNI-  
THOLOGY.

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2 Mexican Deer.
- ROBERT J. ADLER, Brooklyn, N. Y.  
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1 Black Sable, 1 Silver Fox (skulls) and 1 skeleton of Ceylon Mouse.
- BARNUM & BAILEY, Bridgeport, Conn.  
1 Antelope.

- J. H. BATTY, New York City.  
 4 Specimens of *Didelphis marsupialis battyi* Thomas (topotypes).
- JAMES H. BEEBE, Rochester, N. Y.  
 1 Black Woodchuck.
- PROF. HERMON C. BUMPUS, New York City.  
 1 White-footed Mouse, 2 Moles.
- JOHN L. CADWALADER, New York City.  
 4 Meadow Mice.
- MRS. ELLA F. CHAPMAN, New York City.  
 1 Yorkshire Terrier.
- JOHN LEWIS CHILDS, Floral Park, N. Y.  
 2 Pocket Gophers.
- CHAS. D. CLEVELAND and MARSHALL H. MCLEAN, New York City.  
 11 Newfoundland Caribou, and accessories, for a group.
- N. COMSTOCK, New York City.  
 1 Yorkshire Terrier.
- MRS. ERNEST W. COOKE, Fayetteville, N. C.  
 1 Marmoset.
- MRS. HANNAH M. CORBIN,  
 2 Mounted Wild Boars.
- FRANCIS C. CURTIS, Holderness, N. H.  
 1 Shrew Mole.
- F. A. M. DEAN, Niagara Falls, N. Y.  
 1 Jumping Mouse.
- MISS KATHARINE DONOVAN, New York City.  
 1 Norwegian Collie Dog.
- J. J. DORAN, New York City.  
 Teeth of Horse and Dog.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
 9 Monkeys, 5 Marmosets, 2 Lions, 1 Grizzly Bear, 3 Black Bears,  
 2 Raccoons, 2 Red Foxes, 2 Silver Foxes, 1 Coati, 1 American  
 Bison (male), 4 Aoudads, 1 Zebu, 1 Hartbeest, 1 Nyghau, 4  
 Red Deer, 3 Wapiti Deer, 1 Fallow Deer, 1 Axis Deer, 1  
 Mexican Deer, 1 Indian Elephant, 1 Tree Porcupine, 2 Coypus,  
 1 Agouti, 1 Opossum.—Total, 51 specimens, received in the  
 flesh from the Central Park Menagerie.
- J. D. FIGGINS, New York City.  
 1 Flying Squirrel.
- W. C. FOCHELMAN, New York City:  
 1 Gibbon.
- C. LINCOLN FREE, Easton, Pa.  
 1 Mountain Lion, 1 Black-tailed Deer.
- GEORGE D. FRANKLIN, New York City.  
 1 Ferret.
- D. G. GARDNER, Easthampton, N. Y.  
 1 American Bison.
- HENRY J. VAN GELDER, Brooklyn, New York.  
 1 Lynx (mounted).
- CAPT. GOLDING, S. S. "Afrede."  
 2 Gibbons, 1 Orang.

- MADISON GRANT, New York City.  
1 Hoary Marmot.
- DR. ALEŠ HRDLIČKA, New York City.  
3 White-footed Mice, 2 Squirrels and 1 skull of Anteater.
- MRS. A. HOPE, New York City.  
1 Six-legged Kitten.
- HERMON KLUGE, Mt. Vernon, N. Y.  
1 Skull of Mexican Puma.
- E. A. LEWIS, M.D., Brooklyn, N. Y.  
1 Star-nosed Mole, and 1 Weasel (skin and skeleton).
- DUKE OF LOUBAT, New York City and Paris.  
4 Sea Lions.
- EMIL DES MARETS, New York City.  
1 Pichiciago (*Chlamydomorphus truncatus*).
- C. F. NEWCOMB, Queen Charlotte Islands, B. C.  
1 Haida Weasel.
- NORTH BEACH AMUSEMENT COMPANY.  
1 Sea Lion.
- MRS. M. NUSTAYER, New York City.  
1 Monkey.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
2 Orangs, 1 Barbary Ape, 1 Gelada Baboon, 1 Common Baboon,  
24 Monkeys (various species), 2 Marmosets, 11 Lemurs (various species), 1 Clouded Leopard, 1 Ocelot, 1 Indian Cat, 1 Sand Badger, 2 European Badgers, 2 Binturongs, 2 Florida Otters, 2 Civet Cats, 1 Mongoose, 2 Raccoons, 2 Kinkajous, 1 Coyote (pup), 3 Timber Wolves (pups), 1 Cross Fox, 1 Blue Fox, 1 Red Fox, 1 Sun Bear, 1 Himalayan Bear, 2 Sea Lions, 4 Bats, 2 Pronghorns, 2 Spanish Ibexes, 3 American Bisons, 1 Mountain Sheep, 1 Barbary Sheep, 1 Musk-ox, 1 Caribou, 1 Wapiti Deer, 1 Florida Deer, 1 Cuban Deer, 1 Virginia Deer, 1 Brazilian Deer, 1 Mule Deer, 1 Mexican Deer (fawn), 1 Axis Deer (fawn), 1 Squirrel, 3 Prairie Dogs, 2 Canada Porcupines, 1 Paca, 1 Coypu, 1 Agouti, 1 Capromys, 1 Kangaroo Rat, 1 Armadillo.—Total, 105 specimens, received in the flesh.
- PEARY ARCTIC CLUB, New York City.  
8 Polar Bears (3 skins and 5 skulls), 1 Bearded Seal, 12 Spotted Seals (4 skins and 8 skulls), 2 young Walruses and 37 skulls, 3 Eskimo Dogs, 7 Arctic Fox skulls, 5 Musk-ox skins and skulls (skins spoiled), 6 flat skins (without skulls), and 3 Musk-ox calves; 5 Ellesmere Land Caribou and 12 Greenland Caribou, flat skins without skulls, 2 Arctic Hares, 2 Narwhal skeletons and 3 tusks, 1 White Whale skeleton. All collected by Commander Peary in northern Greenland, Ellesmere Land, Grinnell Land, etc.
- C. PETICH, New York City.  
1 Dog.
- WM. REDNER, Montgomery, New York.  
2 White-footed Mice.
- JEREMIAH RICHARDS, New York City.  
1 Virginia Deer.
- CAPT. WIRT ROBINSON, U. S. A., West Point, N. Y.  
6 Cave Rats, 8 Red-backed Mice.



- L. SCHEIFFLIN, New York City.  
Mounted Yorkshire Terrier.
- F. A. SCHNEIDER, New York City.  
1 Belgian Hare.
- DR. STRAUSS, New York City.  
King Charles Spaniel.
- FRANK N. STUCKEY, New York City.  
Albino House Rat with malformed teeth.
- L. S. THOMPSON, Redbank, N. J.  
1 Mounted head of large Alaska Moose, and 2 mounted Rocky Mountain Sheep.
- PROF. THOMAS D. WARD, Teachers College, New York City.  
2 Skins of Fur Seals.
- WILLIAM F. WHITEHOUSE, JR.  
Mounted Duyker Antelope and (on loan) mounted heads of African Elephant and Two-horned Rhinoceros.
- J. WILLISTON WRIGHT, M. D., New York City.  
3 Skulls and 1 skeleton of Coney, from Syria.

BY EXCHANGE.

20 Specimens, mostly North American.

BY PURCHASE.

631 Specimens, mostly from Mexico, the West Indies and South America.

THROUGH MUSEUM EXPEDITIONS.

ANDREW J. STONE EXPEDITION.

About 1000 small mammals and 48 large mammals, including Moose, Caribou, Deer, Mountain Sheep, Mountain Goats, Black and Grizzly Bears, Wolverines, Fox, Wolf, and 30 skulls of Kadiak Bears. Collected in Alaska and Northern British Columbia.

SIBERIAN EXHIBITION.

1 Musk Deer, 31 small mammals (in alcohol) from the Kolyma River. Collected by Waldemar Jochelson.

BIRDS.

BY DONATION.

- MISS HARRIETT B. BAILEY, New York City.  
Nest of Goldfinch.
- F. BARTELL, New York City.  
1 Cassowary.
- J. H. BATTY, New York City.  
2 Nests of Troupial (*Cassicus*).
- WILLIAM BEUTENMÜLLER, New York City.  
Nest of Carolina Junco.
- PROF. A. S. BICKMORE, New York City.  
Mounted skeleton of Fowl.
- W. S. BATCHLEY, Indianapolis, Indiana.  
Humerus of Great Auk, from shell mounds of Ormond, Florida.

- V. H. BORCHERDT, Denver, Colorado.  
5 White-tailed Ptarmigans.
- W. J. BUCKLEY, New York City.  
1 Alice Thrush, 1 Dove.
- JOHN L. CADWALADER, New York City.  
39 Terns, Skimmers, Plovers and Sandpipers. 7 White-tailed Ptarmigans, for use in Groups.
- FRANK M. CHAPMAN, New York City.  
1 Cuckoo, 1 Sparrow, 2 Ospreys, 3 Petrels, and 66 specimens from the Bahama Islands.
- J. L. CLARK, Providence, R. I.  
1 Meadowlark.
- L. W. COOK, Fishkill, N. Y.  
1 Whippoorwill.
- CHARLES B. CORY, Boston, Mass.  
1 Florida Black Duck.
- JOHN C. CREIGHTON, New York City.  
Trick Rooster "Jip."
- H. C. DAVENPORT, East Orange, N. J.  
2 Geese, 3 Black-necked Swans, 1 Blue Goose, 1 Jungle Fowl, 3 Pheasants, 1 Plumed Partridge.
- DUKE OF LOUBAT, New York City and Paris.  
26 Specimens from Lower California and west coast of Mexico.
- WILLIAM DUTCHER, New York City.  
9 Snow Geese, and 15 Cage-birds (various species).
- DEPARTMENT OF PUBLIC PARKS, New York City.  
4 Swans, 2 Black Swans, 1 Canada Goose, 1 Peahen, 8 Pheasants (various species), 7 Eagles, 1 Hawk, 2 Owls, 1 Macaw, 2 Cockatoos, 3 Parrots, 2 Paroquets.—Total, 34 specimens, received in the flesh.
- J. D. FIGGINS, New York City.  
7 Horned Larks.
- A. FINCK, New York City.  
1 Heron.
- HENRY FITCHEW, New York City.  
1 Hummingbird.
- W. K. GREGORY, New York City.  
1 Vireo.
- SAMUEL W. HOUSEN, New York City.  
1 Four-legged Chicken.
- AUGUST KOCH, Williamsport, Pa.  
1 Florida Quail, with malformed bill.
- THEODORE H. LEE, New York City.  
2 Mounted Arctic Ptarmigans, 1 Mounted Florida Cormorant.
- WILLIAM LEMMON, Englewood, N. J.  
12 North American birds' eggs.
- JAMES LOEB, New York City.  
1 Mounted Goshawk.
- MARSHALL H. McLEAN, New York City.  
1 King Eider.

- ROBERT MEINCKE, New York City.  
1 Cuckoo.
- ROBERT S. MILLER, New York City.  
1 Starling.
- C. F. NEWCOMBE, Queen Charlotte Islands, B. C.  
5 Specimens from Queen Charlotte Islands.
- NEW YORK ZOÖLOGICAL SOCIETY.  
2 Flamingos, 1 Stork, 1 Wild Turkey, 1 Peacock Pheasant, 1 Eagle.—Total, 8 specimens, received in the flesh.
- REV. R. B. POST,  
1 Brown Pelican, from Florida.
- JOHN ROWLEY, New York City.  
1 Ruby-throated Hummingbird.
- LOUIS RUHE, New York City.  
1 Finch.
- ERNEST THOMPSON-SETON, Coscob, Conn.  
3 Hybrid Ducks (Mallard and Black Duck).
- G. O. SHIELDS, New York City.  
1 White-faced Glossy Ibis.
- G. SIBUILLE, New York City.  
1 Starling, 1 Lapwing, 2 Finches.
- THEODORE E. SMITH,  
1 Chinese Robin.
- R. J. SILBERHORN, Mt. Vernon, N. Y.  
1 Hawk.
- JOSEPH THOMPSON, M.D., U.S.A., Dry Tortugas, Florida.  
16 Specimens, Dry Tortugas, Florida.
- H. B. TYSON,  
1 Kingfisher.
- PROF. C. O. WHITMAN, University of Chicago, Chicago, Ill.  
1 Rock Dove.
- HENRY WIETERS, New York City.  
1 Parrot.
- JAMES HYDE YOUNG, Poughkeepsie, N. Y.  
4 Paroquets.

BY EXCHANGE.

- 17 Specimens, from various localities in North America, South America and the West Indies.

BY PURCHASE.

- 723 Specimens, mostly from Chiriqui, Colombia.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

### BY DONATION.

DR. ALEŠ HRDLIČKA. Tooth of a mammoth from Mexico.

PROF. H. F. OSBORN. Collection of Primitive Reptiles and Amphibia from the Permian of Texas. Made by C. H. Sternberg, 1902.

The Cope Collection of Fossil Reptiles, Amphibia and Fishes, and the Cope Pampean Collection, presented by Mr. Jesup and by a number of the Trustees of the Museum, have been referred to in previous reports.

### BY EXCHANGE.

*Museum of Palæontology, Munich, Bavaria.* Cast of foot bones of *Amphicyon* and teeth of fossil apes from the Miocene of Europe.

*Muséum de Paléontologie, Paris, France.* Cast of jaw of a fossil rhinoceros.

*Muséum de l'Université de Moscou, Russia.* Skull and lower jaws of the extinct "Woolly" Rhinoceros.

*Museum of Palæontology, Bucharest, Roumania.* Casts of a gigantic Dicotyles jaw and of a fossil camel jaw.

*Muséum de l'Université de Moscou, Russia.* Casts of skull of *Elasmotherium* and of jaws and teeth of Russian Mastodons.

*British Museum, London.* Skeleton of a Plesiosaur, bones of an Ichthyosaur, and skull and vertebrae of a primitive crocodile, all from the Jurassic of England.

*Museo Nacional, Buenos Aires, Argentina.* Casts of skull, jaws, fore and hind limbs of the *Hippidium*.

*Museum of Tübingen University, Germany.* Series of 75 casts of bones of Triassic Dinosaurs.

*Museum of Palæontology, Munich, Bavaria.* Series of specimens of fossil horses, rhinoceroses and ruminants from the Miocene of Europe and of China.

*Museum of Lyons University, France.* Series of jaws and teeth of *Lophiodon* from the Eocene of France.

### THROUGH MUSEUM EXPEDITIONS.

TERTIARY OF SOUTH DAKOTA (Whitney Fund). Complete skeleton of a Three-toed Horse from the Upper Miocene, and about fifty other specimens from Oligocene and Miocene.

TERTIARY OF MONTANA (Whitney Fund in part). About one hundred and fifty specimens, including skeletons of a rare Orodont from the Upper Miocene, and jaws and fore and hind feet, illustrating a new stage in the evolution of the Horse.

CRETACEOUS OF MONTANA. Fine skull of the gigantic three-horned Dinosaur Triceratops, skeletons of a rare primitive lizard, and other specimens.

JURASSIC OF WYOMING. About 120 specimens of Carnivorous and Herbivorous Dinosaurs.

## DEPARTMENT OF ANTHROPOLOGY.

BY DONATION.

- F. J. KUHNE, New York City.  
Rain hat from Sinu River, Colombia.
- JOHN D. CRIMMINS, New York City.  
Collection of Filipino hats.
- MRS. HENRY VILLARD, New York City.  
Halibut-hook and model of a boat, from Alaska.
- PEABODY MUSEUM, Cambridge, Mass.  
Copy of Codex Nuttall and copy of Memoirs, Vol. I, Hieroglyphic Stairway, Ruins of Copan.
- WILLIAM S. KAHNWEILER, New York City.  
Collection of ethnological specimens from the Philippine Islands.
- RICHARD ALLEN MARTIN, New York City.  
1 Arrow-point.
- F. W. GRAUERT, New York City.  
Model of a balsa from Lake Titicaca.
- SPEROS CONDOUNES, New York City.  
Grecian pottery lamps, figurines and vases, from Sparta.
- MRS. T. K. GIBBS, Newport, R. I.  
Section of wood from California from which baskets are made.
- DE COST SMITH, New York City.  
Indian skull and photograph of tree burial from Standing Rock, Dak.
- O. W. MILLS, Millbury, Mass.  
5 Photographs of implements found near Millbury.
- H. C. C. LEONHAUSER, New York City.  
2 Tobacco-pouches, 1 pair of snow-goggles and 7 pieces of ivory carvings from Alaska.
- DR. E. A. MEARNS, Newport, R. I.  
Apache basket from San Carlos Indian Reservation, Gila River, Arizona.
- GEORGE G. BOARDMAN, Centralia, Kan.  
2 Philippine coins.
- HEBER R. BISHOP, New York City.  
Cast of a Mexican jadeite idol.
- GEORGE FOSTER PEABODY, New York City.  
2 Archæological collections from Georgia, made by Roland Steiner and J. W. T. Jones.
- REV. J. W. CHAPMAN, New York City.  
Belt loom from Yukon River region, and skin-dressing knife from Anvik.
- JOHN T. BRAGAU, New York City.  
1 Stone axe-head from North Beach, L. I.
- MRS. ELISHA H. ALLEN, New York City.  
3 Pictures of Hawaiian princes.
- LEVI L. MCGARRAH, Brooklyn, N. Y.  
Old English brace and plane.
- CAPT. JOHN A. HASSELL, New York City.  
Necklace of ant-eggs from Lake Ngami, South Africa.

- WILLIAM DEMUTH, New York City.  
Collection of African and Chinese pipes.
- LAMAR CRAWFORD, New York City.  
Arrow-points, flakes, pipes, axe, bannerstone and pipe-stems from different localities in United States.
- MORRIS K. JESUP, New York City.  
Robinson collection of copper implements from the United States.
- S. H. CHAPMAN, Philadelphia, Penn.  
Drawing of a Hawaiian feather cape.
- BUREAU OF MISSIONS, New York City.  
Chinese ivory ancestral tablet.
- ARCHER M. HUNTINGTON, New York City.  
Sioux Indian head-dress.
- E. P. MATHEWSON, Anaconda, Montana.  
Collection of stone hammers, several hafted, and various specimens from ancient copper mines in Chuquicamata, Chili.
- H. W. SETON-KARR, Wimbledon, England.  
5 Paleolithic implements from Somaliland, East Africa.
- E. O. SCHERNIKOW, New York City.  
Archæological collection from Costa Rica.
- JAMES C. NICOLL, New York City.  
Pair of sandals and clogs from Turkey.
- JAMES TEIT, Spences Bridge, B. C.  
Collection of knit designs from the Shetland Islands.
- CLARENCE B. MOORE, Philadelphia, Penn.  
5 Casts of stone implements found in Florida and Alabama.
- MISS H. A. SHEARER, New York City.  
1 Alaskan head-dress.
- COL. W. H. ROBINSON, Maryville, N. Dak., through Mr. Geo. Bird Grinnell.  
1 Pot from Fort Yates.
- GEORGE W. MAYNARD, New York City.  
Mexican serape.
- HARLAN I. SMITH, New York City.  
2 Fragments of modern clay tablets from Michigan.
- GEORGE F. GALE, Ann Arbor, Mich.  
1 Stone celt from Michigan.
- MRS. FREDERICK KUHNE, New York City.  
1 South American Indian hat.
- PROF. F. W. PUTNAM, New York City.  
1 Peruvian mummy.
- GEORGE W. MAYNARD, New York City.  
Pair of Russian shoes.
- JUAN B. AMBROSETTI, Buenos Aires, S. A.  
1 Ancient basket plate from Calchaqui region, Argentine Republic, S. A.
- ALFREDO CHAVERO, City of Mexico.  
Post-Columbian Mexican Codex.
- ALFRED P. MAUDSLAY, England.  
Plates and drawings of Maya ruins.
- JOHN W. KEITH, Puerto Limon, Costa Rica.  
Bowl and human head of terra-cotta from Costa Rica.

- PROF. FRIEDRICH HIRTH, New York City.  
Chinese census bulletin.
- JUAN B. FERRAZ, San José, Costa Rica.  
Collection of pottery from Costa Rica.
- TEOBERT MALER, Merida, Yucatan.  
Pottery vessels from Yucatan.
- DUKE OF LOUBAT, Paris, France.  
Collection of jade, gold and copper objects from Oaxaca, Mexico; an ethnological collection from the Karaja, Brazil, S. A.
- YALE UNIVERSITY MUSEUM, New Haven, Conn.  
Cast of skull of *Pithecanthropus erectus* from Java.

BY EXCHANGE.

- BERLIN ROYAL ETHNOGRAPHICAL MUSEUM.  
2 Plaster casts of stone objects from British Columbia.
- M. R. HARRINGTON, New York City.  
Pipe and arrow-points from Tennessee.
- BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, N. Y.  
Archæological collection from vicinity of Buffalo.
- PROVINCIAL MUSEUM OF VICTORIA, B. C.  
Cast of a stone sculpture from North Saanich, B. C.
- C. H. HITCHCOCK.  
Bone point from shell heap at Ormond, Fla.
- HENRY GESNER, Nyack, N. Y.  
1 Bannerstone from Voorhis Point, N. Y., and 1 vase from Mississippi.
- FIELD COLUMBIAN MUSEUM, Chicago, Ill.  
Cast of a sculptured stone yoke from Mexico; also cast of a stone specimen found near North Saanich, B. C.
- REV. GEORGE CORNWELL.  
Ethnological collection from Chefoo, China.

BY PURCHASE.

- 1 Skull, 6 stone axes and 1 pestle from Santa Marta.  
The Andrew J. Stone ethnological collection from Mackenzie River region.  
The William Raff ethnological collection from the Lower Congo, Africa.  
Ethnological specimens from Cameroons, Africa.  
1 Dakota Indian buffalo-robe.  
An Iroquois mask.  
Hafted stone axe from Alaska.  
Ethnological collection from the Choctaws.  
10 Archæological specimens from Costa Rica.  
1 African canoe.  
Archæological collection from Guadeloupe.  
An Iroquois wampum belt.  
4 Skulls and 2 lower jaws from Borneo.  
Blackfoot lodge, back-rests, parfleches, sacred bundle, tripods and tent-poles. Collected by George B. Grinnell.  
New Guinea bow, arrows and spear.  
Archæological specimens from Yucatan.  
Peruvian fabrics and bronze objects.

## THROUGH MUSEUM EXPEDITIONS.

JESUP NORTH PACIFIC EXPEDITION. Provided for by Morris K. Jesup.

Ethnological specimens from the Chilkotin region. Collected by James Teit.

Attu basket, and pouch of seal-intestine, from Aleutian Islands. Collected by Miss Frances Mann.

Ethnological collection from Northeastern Siberia. Collected by Waldemar Bogoras.

Ethnological collection from Fort Rupert, B. C. Collected by George Hunt.

Ethnological collection from Siberia. Collected by Waldemar Jochelson.

EAST ASIATIC EXPEDITION. Provided for by special committee.

Ethnological collection from China. Collected by Dr. Berthold Laufer.

NORTH AMERICAN INDIAN RESEARCH.

HUNTINGTON EXPEDITION.

Collection of ethnological specimens from California. Made by Dr. Roland B. Dixon.

Collection of ethnological specimens from Klamath River region, California. Made by Dr. A. L. Kroeber.

MUSEUM EXPEDITION.

Ethnological collection from Baffin Land. Made by Capt. James S. Mutch.

Ethnological collection from the Sahaptin Indians. Made by Dr. L. Farrand.

Ethnological collection from the Sioux Indians. South Dakota. Made by Dr. Clark Wissler.

Ethnological collection from the Sauk and Fox Indians. Made by William Jones.

Ethnological collection from Southampton Island. Made by Capt. George Comer.

Ethnological collection from the Comanche and Ute Indians. Made by H. H. St. Clair, 2d.

MEXICAN EXPEDITION. Provided for by the Duke of Loubat.

Archæological collection from Oaxaca and Valley of Mexico. Made by M. H. Saviile.

Ethnological collection from Oaxaca.

HYDE EXPEDITION. Provided for by B. T. B. Hyde and F. E. Hyde, Jr.

Archæological and ethnological collection from Mexico and New Mexico. Made by Dr. A. Hrdlička. Also sample of earth and fragments of bones from the excavation where the "Lansing Skull" was found.

EXPLORATIONS IN THE DELAWARE VALLEY, NEW JERSEY.

Provided for by Dr. F. E. Hyde.

Archæological collection from near Trenton, N. J. Made by Ernest Volk.

EXPLORATIONS IN NEW YORK STATE.

Archæological specimens and Indian skeletons from Shinnecock Hills, L. I. Collected by M. R. Harrington.



DEPARTMENT OF MINERALOGY AND CONCHOLOGY.

MINERALOGY.

BY DONATION.

- AMERICAN RUTILE CO., Washington, D. C.  
2 Specimens Rutile.
- MISS M. W. BRUCE, New York City.  
Specimens of Bementite, Calcite and Nasonite.
- L. W. BOYNTON, New York City.  
Specimens colored Clay.
- J. H. BATTY, New York City.  
Specimen of Aragonite.
- BARNUM BROWN, New York City.  
4 Specimens of Calcite.
- DR. JONATHAN DWIGHT, JR., Rye, N. Y.  
Mica.
- GEORGE L. ENGLISH & CO., New York.  
Specimens of Covellite and Barite.
- FAUQUIER COPPER CO., Fauquier Co., Va.  
3 Specimens of native Copper.
- J. C. HARTSHORN, Boston, Mass.  
Specimen of Aragonite.
- A. E. HEIGHWAY, New York City.  
1 Specimen of Chrysoprase.  
1 Specimen of Cinnabar.  
2 Bags of monazite Sand.  
1 Specimen of Muscovite with Lepidolite.  
1 " " Nephrite.  
1 Block of Soapstone.  
2 Specimens of Tourmaline.
- S. HERMANN, New York City.  
4 Cubes of Gypsum (3 in. x 3 in.).
- HENRY H. HINDSHAW, Baltimore, Md.  
1 Specimen of Chlorite holding Garnets.  
1 " " Autunite on Granite.  
1 " " Epidote.  
1 " " Laumontite.  
1 " " Stilbite.  
1 " " Thulite.  
1 " " Beryl in Tourmaline.
- GEORGE F. KUNZ, New York City.  
2 Specimens of Corundum.  
Large specimen of Orthoclase.
- EDWIN R. McCARTY, New York City.  
3 Specimens of Mica (Muscovite).
- J. A. MANLEY, New Brunswick, N. J.  
1 Specimen of Hancockite.  
2 Specimens of Nasonite.

- J. PIERPONT MORGAN, New York City.  
 A Collection of thin sections and translucent slices of Agate, many specimens of Chalcedony, Amethyst, Quartz, Jasper, Crocidolite (Tiger's Eye), Nephrite and Rhodonite, comprising 77 specimens and 3 large and beautiful cameo cuttings on the helmet shell *Cassis madagascariensis*.  
 Ancient Agate Axe with engraved characters.  
 1 Star Sapphire, 541 carats.  
 1 Large Yellow Sapphire, 100 carats.  
 2 Blue and Yellow Sapphires, 21 9/16 and 21 13/16 carats.  
 1 Beryl (yellow), 57 9/16 carats.  
 2 Rubellites (Tourmaline), 40 1/8 and 11 7/32 carats.  
 1 Amethyst, 142 5/32 carats.  
 Fine large specimens of amethystine Quartz encrustations.
- J. NIEBLING, New York City.  
 1 Specimen of ligniferous Serpentine.
- C. R. ORCUTT, New York City.  
 1 Specimen of Orthoclase.  
 3 Specimens of Lepidolite.  
 1 Specimen of silicified Palm.  
 Specimens of Antonite (hydrated mica).
- DR. II. B. PEARSON, Valdez, Alaska.  
 1 Specimen of Chalcocite.  
 1 " " Covellite.  
 1 " " Chalcopyrite.  
 1 " " Bornite.
- CHAS. H. ROBBINS, New York City.  
 1 Specimen of Chalcopyrite and Sphalerite in Quartz.  
 1 " " Pyrite.
- DR. W. SETON, New York City.  
 1 Specimen of agatized Wood (polished).
- F. W. TRAPHAGEN, Montana.  
 9 Pieces of Corundum.
- FRANCIS WATT, New York City.  
 7 Specimens of Manhattan Island Rocks.
- J. PIERPONT MORGAN, New York City.  
 A Collection of United States Coins.

## BY EXCHANGE.

15 Specimens of Minerals.

## BY PURCHASE.

54 Specimens of Minerals.

## CONCHOLOGY.

## BY DONATION.

- J. H. BATTY, New York City.  
 10 Valves of *Meleagrina fimbriata*.
- WILLIAM BEUTENMÜLLER, New York City.  
 Specimens of *Mesodon*, *Zonites*, *Stenotrema*, *Patula*, *Ferrusacia* and *Goniobasis*.

- BROWN BROS., Nassau, Bahama.  
Specimens of *Orthalicus undatus* and *Thelidomus bayamensis*.
- GUY R. B. ELLIOTT, New York City.  
A large specimen of *Modiola modiolus*.
- GEORGE H. FELT, New York City.  
Specimens of *Crassatella solidissima* with young *Ostrea* attached.
- J. D. FIGGINS, New York City.  
Specimens of *Donax fossor*.
- S. H. HAMILTON, New York City.  
Specimens of *Cassia flammea* and *C. tuberosa*.
- A. E. HEIGHWAY, New York City.  
Specimen of *Harpa ventricosa*.
- DR. G. H. HUDSON, Plattsburg, N. Y.  
3 Specimens of *Lymnaea stagnalis* and 3 specimens of *Planorbis trivolvis*.
- HYDE EXPEDITION, through G. H. PEPPER, New York City.  
16 Specimens of *Arionta dupetithouarsi* and 6 specimens of *Arionta californiensis*.
- DUKE OF LOUBAT, New York City.  
5 Specimens of *Macoma*, 4 *Crucibulum spinosum*, 7 *Scurria mesoleuca*, 2 *Chlorostoma gallina*, 9 *Cerithidea sacrata*, 1 *Cerithium ocellatum*, 9 *Littorina planaxis*, 5 *Eupleura plicata*, 4 *Olivia reticularis*, 4 *Olivella tergina*, 1 *Chiton*.
- DR. E. A. MEARN'S, Newport, Rhode Island.  
Specimens of *Lymnaea*, *Columbella*, *Arca*, *Purpura*, *Nassa*, *Sycotypus*, *Lunatia*, *Janacus*, *Urosalpinx*, *Littorina*, *Melampus*, *Lacuna*, *Buccinum*, *Fulgur*, *Natica*, *Solen*, *Petricola*, *Lucina*, *Astarte*, *Ostrea*, *Modiola*, *Mytilus*, *Mercenaria*, *Heminactra*, *Thracia*, *Cytheria* and *Mya*.
- G. H. PEPPER, New York City.  
20 specimens of *Vivipara*.
- REV. R. B. POST.  
Specimens of *Helix nemoralis*, and a number of Pacific Ocean shells, including *Cypræas*, *Olives*, etc.
- SIBERIAN EXPEDITION, through N. G. BUNTON.  
5 Specimens of *Mytilus edulis*, 7 specimens of *Cardium nuttalli*, 2 specimens of *Mya arenaria*, 6 specimens of *Machava*, 1 specimen of *Littorina littorea*, 7 specimens of *Purpura lapillus*, 5 specimens of *Acmea*.
- HARLAN I. SMITH, New York City.  
5 Specimens of *Unio* (two species).
- MILTON G. SMITH, New York City.  
4 Specimens of *Ostrea virginiana*.
- BRYANT WALKER, Detroit, Michigan.  
4 Specimens of *Aplexa hypnorum*.
- PROF. R. P. WHITFIELD, New York City.  
Small larval shells of *Maetra solidissima*.
- DR. R. A. WITTHAUS, New York City.  
A Collection of shells comprising 68 genera, 674 species and 2,500 specimens, *Cypræa*, *Conus*, *Mitra*, *Olivæ*, etc., conspicuous for the beauty and completeness of the species of *Cypræa*.

## BY EXCHANGE.

- D. W. FERGUSON, Brooklyn, N. Y.  
14 Specimens of *Helix nemoralis*.  
SLOMAN ROUS, Brooklyn, N. Y.  
61 Specimens, representing 9 genera, 12 species of shells.

## BY PURCHASE.

- Y. HIRASE, Kyoto, Japan.  
Land Shells, representing 15 genera.  
Marine Shells, representing 21 genera.

## DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

## INVERTEBRATES.

## BY DONATION.

- DR. CARL GISSLER, Brooklyn, N. Y.  
About 100 Internal and External Parasites.  
JOHN HISCOX, New York City.  
1 California Crab, 1 Lobster, 1 Horseshoe Crab, 1 Squid.  
ALEŠ HRDLIČKA, New York City.  
1 Squilla.  
NEW YORK AQUARIUM, New York City.  
1 Lobster.  
SLOMAN ROUS, Jersey City, N. J.  
1 Specimen of *Peripatus*.  
U. S. COMMISSION OF FISH AND FISHERIES, through HON. GEORGE  
M. BOWERS, Washington, D. C.  
21 Actinians.  
W. C. KOSTER, Hastings-on-Hudson, N. Y.  
1 Stomatopod.  
C. R. ORCUTT,  
Miscellaneous Invertebrates.  
C. F. NEWCOMBE,  
Miscellaneous Invertebrates.  
THOMAS STEEL, Sydney, New South Wales.  
8 Specimens of *Peripatus*.  
R. P. WHITFIELD, New York City.  
1 Crustacean.  
DUKE OF LOUBAT, Paris, France.  
Miscellaneous Invertebrates.

## BY PURCHASE.

- Rock-boring Echinus.  
2 Specimens of Giant Crab.  
A Collection of Crustaceans.  
A Collection of Coelenterates.

THROUGH MUSEUM EXPEDITIONS.

Miscellaneous Invertebrates. Collected by Messrs. Sherwood and Figgins.  
1 Crustacean. Collected by Waldemar Bogoras.

REPTILES AND BATRACHIANS.

BY DONATION.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Pinesnake, 2 Bullsnares, 3 Turtles, 2 Galapagos Turtles, 1 Abyssinian Turtle, 3 Pythons, 1 Gila Monster, 1 Crocodile, 1 Anaconda, 1 Giant Salamander, 1 Blacksnake, 1 Australian Monitor.

NEW YORK AQUARIUM, New York City.

3 Turtles, 1 Alligator, 1 Snapping Turtle, 1 Crocodile, 1 Box Turtle.

DEPARTMENT OF PARKS, New York City.

1 Blacksnake, 1 Python, 2 Snakes, from the Central Park Menagerie.

FREDERICK TAYLOR, F.R.G.S.

1 Snakeskin.

BRUCE HORSFALL, Red Bank, N. J.

7 Snakes, 4 Frogs.

MRS. C. N. CAMPBELL, Poughkeepsie, N. Y.

1 Alligator, mounted.

G. B. HOWES, London, England.

1 Sphenodon embryo.

H. R. BISHOP, New York City.

1 Turtle head, mounted.

EDWARD KEMBLE, New Rochelle, New York.

1 Box Turtle.

DUKE OF LOUBAT, Paris, France.

Collection of Reptiles and Batrachians from Mexico.

ALEŠ HRDLIČKA, New York City.

1 Gila Monster.

OTTO F. PFORDTE, Rutherford, N. J.

5 Snakes.

C. CHRISTMAN, New York City.

4 Salamanders.

LOUIS F. ARMITAGE, Auckland, New Zealand.

5 Sphenodon embryos.

BY PURCHASE.

Collection of Reptiles.

1 Galapagos Lizard.

3 Iguanas.

FISHES.

BY DONATION.

NEW YORK AQUARIUM, New York City.

1 Speckled Hind, 1 Moonfish, 1 Croaker, 1 Garpike, 2 Trunkfish, 1 Angelfish, 1 Amberfish, 1 Filefish, 1 Niggerfish, 1 Sea-raven, 1 Squirrelfish, 1 Carp, 2 Parrotfish, 1 Salmon Trout, 2 Rainbow Trout, 2 Trout, 1 Spotted Moray, 1 Tiger Rockfish, 1 Remora, 1 Cowfish, 1 Whitefish, 2 Weakfish, 5 Fishes, 1 Sturgeon.

- JOHN HISCOX, New York City.  
3 Sunfish, 1 Yellow Pike, 1 Brook Pike, 1 Pickerel, 2 Sea-horses, 2 Garfishes, 1 Goosefish, 3 Fishes.
- ANATOMICAL LABORATORY, Brown University, Providence, R. I.  
3 Lamprey Eels.
- U. S. COMMISSION OF FISH AND FISHERIES, through Hon. GEORGE M. BOWERS, Washington, D. C.  
1 Specimen of Shad (co-type).  
20 Specimens of *Mistichthys luzonensis* (co-types).
- MRS. ALICE MAULE, New York City.  
1 Sea-raven.
- H. R. BISHOP, New York City.  
1 Jewfish.
- DUKE OF LOUBAT, Paris, France.  
Collection of Fishes from the Gulf of California.
- CAPT. A. F. HOLMES,  
Saw of Sawfish.
- F. A. HOLMES, New York City.  
1 Fish.

## THROUGH MUSEUM EXPEDITIONS.

- 100 Fishes of Woods Hole. Collected by Messrs. Sherwood and Figgins.

## DEPARTMENT OF ENTOMOLOGY.

## BY DONATION.

- VERY REV. E. A. HOFFMAN, New York City.  
180 Butterflies from South America.
- DR. K. JORDAN, Tring, England.  
4 Species of *Papilio*.
- SADAZUCHI UCHIDA, New York City.  
A collection of Japanese butterflies.
- OTTO SEIFERT, New York City.  
10 *Vanessa milberti*, from the Catskills, N. Y.; 14 *Arctia radians* and 2 *Arctace punctistriga*, from Florida; a collection of flies from New York.
- CARLOS WERKELE,  
A Collection of insects from Costa Rica, C. A.
- L. W. FABER, New York City.  
A collection of butterflies from Brazil.
- CAPT. WIRT ROBINSON, West Point, New York.  
A number of beetles from Jamaica.
- W. T. DAVIS, Staten Island, N. Y.  
1 *Homoglaea carnosae*.
- CHARLES W. LENG, Staten Island, N. Y.  
8 *Cicindela wagneri*, 1 *Cicindela violacea*, 4 *Cicindela cumatilis*, from Louisiana; 4 *Buprestis aurulenta*, 3 *Amphicomma staffi*, 1 *Buprestis langii*, from Oregon.
- ELIAS ROY, Levis, Canada.  
4 *Cassida viridis*.

- J. R. DE LA TORRE BUENO, New York City.  
 4 *Notonecta undulata*, 4 *Notonecta undulata*, var. *maculata*; 4 *Notonecta undulata*, var. *charops*; 4 *Notonecta variabilis*, 2 *Notonecta irrorata*, 4 *Anisops platycnemis*.
- HUGO PFORDTE, Rutherford, N. J.  
 A collection of beetles from South America.
- BARNUM BROWN, New York City.  
 A collection of *Diptera* from Patagonia.
- PROF. J. B. SMITH, New Brunswick, N. J.  
 1 *Rhododipsa masoni*, from Florida; 1 *Aleptina inca*, from Arizona;  
 1 *Oxycnemis fusimacula*, co-type.
- O. C. POLING, Quincy, Illinois.  
 4 *Catocala junctura*, 4 *Catocala babayaga*, 8 *Catocala lacrymosa*, 4  
*Catocala chelidonia*, 3 *Catocala andromache*, 2 *Thecla ilavia*.
- N. G. BUXTON.  
 A number of insects from Gichiga, northeast Siberia.
- PROF. S. WOLF, New York City.  
 1 *Plusia* from New Hampshire.
- M. LEROY, Barbadoes.  
 A collection of moths from Barbadoes.

## BY EXCHANGE.

A collection of beetles from Sonora, Mexico.

## BY PURCHASE.

- 1 *Hypocephalus armatus*, from Bahia, Brazil.  
 42 Blind beetles from the caves in Austria.  
 4 Transformations of moths from Argentina.  
 A collection of insects from Sumatra.  
 32 *Cicindelidæ*.  
 4 Beetles from Brazil.  
 168 Inflated Caterpillars.

## THROUGH MUSEUM EXPEDITIONS.

7,000 Specimens from the Black Mountains, N. C. Collected by William Beutenmüller.





# 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 and recreation.

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, device, 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.<sup>1</sup>

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.

SEC. 5. This Act shall take effect immediately.

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STATE OF NEW YORK, }  
OFFICE OF THE SECRETARY OF STATE. } *s.s.*

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.

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

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

<sup>1</sup> As amended by Chapter 303, Laws of 1868, 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."

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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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, shall be the Trustees to manage the affairs, property and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee, unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall

issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President and a Treasurer, all to be elected from 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, a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year, or until their successors shall be elected.

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

#### ARTICLE V.

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

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and of 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 directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

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

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

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

#### ARTICLE VI.

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four and five years, respectively, and the terms for which those drawing the two, three, four and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property

of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

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

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

#### ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name, and to take all proper measures to provide means for its support; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

ARTICLE X.

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

ARTICLE XI.

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

ARTICLE XII.

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

ARTICLE XIII.

The contribution of \$1,000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

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

ARTICLE XIV.

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

ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.



## BY-LAWS.

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### I.

Patrons giving \$1,000, are each entitled to one 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 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and 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 Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

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

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

### IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum,

except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

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.

## VI.

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.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

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





## PATRONS.

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 PERCY R. PVNE.\*  
 JAMES M. CONSTABLE.\*  
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 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
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 JOHN D. WOLFE.\*  
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 JOSEPH LOTH.  
 JAMES LOW.\*  
 SETH LOW, LL.D.

\* Deceased.

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 JAMES W. PINCHOT.  
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 FRANKLIN D. ROOSEVELT.  
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 HENRY MILFORD SMITH.  
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JAMES SPEYER.  
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FRANCIS LYNDE STETSON.  
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JOHN H. WYMAN.\*  
Mrs. JOHN J. WYSONG.

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 Briesen, Frank von  
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 Decker, Joseph S.  
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 Degener, John F.

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 Dennis, James S.  
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 Eno, Jno. Chester  
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 Fairchild, Charles S.  
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 Fearons, George H.  
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 Fisher, F. R.  
 Fisher, L. G.  
 Flagler, John H.  
 Fletcher, Andrew  
 Flower, A. R.  
 Flower, Frederick S.  
 Forster, Wm.  
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 Foster, Scott  
 Fowler, Anderson  
 Frankenberg, W. V.  
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 Gadd, Luther G.  
 Gade, W. F.  
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 Gay, Joseph E.  
 Geer, Walter  
 Gerrish, John Brown  
 Gibb, John  
 Gibbs, Frederick S.  
 Gibney, V. P.  
 Glatz, Charles  
 Goddard, F. N.  
 Godfrey, Chas. H.  
 Gœbel, Lewis S.  
 Goldschmidt, Geo. B.  
 Goldschmidt, S. A.  
 Goodhart, P. J.  
 Gossler, G. H.  
 Gotthold, Fred.  
 Gould, John D.  
 Gould, Miss Helen M.  
 Grace, Wm. R.  
 Gracie, J. K.  
 Graham, Robert Dun  
 Granbery, W. H.  
 Grant, Madison  
 Graves, Wm. Leon  
 Gray, Mrs. Geo. Z.

- Greeff, Ernest F.  
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 Gregory, Chas. E.  
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 Harris, Dwight M.  
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 Hastings, Thos. S.  
 Hatzel, Frederick H.  
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 Haviland, Edwin  
 Hawk, Wm. S.  
 Hawley, Edwin  
 Hayes, R. Somers  
 Haynes, A. E.  
 Hazen, George H.  
 Hecksher, John G.  
 Hedges, James  
 Hedges, Job E.  
 Heide, Henry  
 Heike, C. R.  
 Heimerdingen, J. E.  
  
 Heinsheimer, L. A.  
 Heminway, Homer  
 Hendricks, Edmund  
 Hendricks, Mrs. Joshua  
 Hershheim, Joseph  
 Heroy, Mrs. James H.  
 Hess, Selmar  
 Higgins, Francis  
 Hilyard, George D.  
 Hinchman, Walter  
 Hinman, W. K.  
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 Hoagland, Mrs. Jos. C.  
 Hobby, J. Oakley  
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 Hodgman, Geo. F.  
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 Hoe, Mrs. Robert  
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 Hoffer, Henri P.  
 Holbrook, Percy  
 Holden, E. B.  
 Holden, E. R.  
 Holden, James C.  
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 Hollister, G. T.  
 Holt, Henry  
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 Hoyt, Chas. A.  
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 Iselin, Miss Georgine  
 Iselin, Wm. E.  
  
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 Jackson, Geo. T., M.D.  
 Jackson, John B.  
 Jackson, Theodore F.  
 Jackson, Wm. H.  
 Jacobus, John S.  
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 Jaffray, Robert, Jr.  
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 Jennings, Miss A. B.  
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 Johnson, Ralph C.  
 Johnson, S. Fisher  
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 Judson, Alfred M.  
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 Kahn, Otto H.  
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 Kimbel, Henry  
 King, William F.  
 King, Wm. W.  
 Kingman, Abel Willard  
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 Klenke, William H.  
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 Mitchell, Cornelius B.  
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 Morris, Theo. Wilson  
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 Nicholson, Miss Maud  
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 Oettinger, P. J.  
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 Olcott, F. P.  
 Olcott, Geo. M.  
 Ollive, Thos. S.  
 Olyphant, R. M.  
 Olyphant, Robert  
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 Owen, Miss Juliette A.  
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 Palmer, N. F.  
 Palmer, S. S.  
 Park, Joseph  
 Parker, Forrest H.  
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 Parsell, Henry V. A.  
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 Parsons, Herbert
- Parsons, W. H.  
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 Patterson, Miss C. H.  
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 Pearsall, T. W.  
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 Pell, Frederick A.  
 Pell, Stephen H. P.  
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 Peters, Samuel T.  
 Peterson, Fred'k, M.D.  
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 Platzek, M. Warley  
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 Porter, H. H.  
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 Read, Wm. A.  
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## DECEASED ANNUAL MEMBERS, 1902.

Babcock, S. D.	Guernsey, Joseph R.	Pell, John H.
Bouton, J. W.	Hartley, Marcellus	Schafer, Simon
Bunzl, Mrs. J.	Isaacs, Montefiore	Scheitlin, Edward
Calman, Emil	Jaffray, Robert	Southworth, Edward W.
Carter, A.	Jesup, James R.	Tillinghast, W. H.
Compton, A. T.	Knower, Benjamin	Townsend, R. W.
Coulter, Charles J.	Lewishon, Leonard	Wales, Salem H.
Day, Henry	Lord, Benjamin	Walker, Mrs. Evan T.
Godkin, Edwin L.	Metcalf, John T., M.D.	Webb, Mrs. Wm. H.
Goodridge, Mrs. Fred'k		

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## In Memoriam.

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At the Annual Meeting of the Trustees of The American Museum of Natural History, held on the ninth day of February, 1903, the President announced the death of their late associate, Mr. Abram Stevens Hewitt, and feelingly referred to the able and valuable service given by the deceased in the upbuilding and development of the Museum, while a Trustee, during a period of twenty-nine years. The following minute offered by the President, was unanimously adopted, and the Secretary was directed to present a copy to the family of the deceased.

The Trustees of The American Museum of Natural History, at this their first meeting after the death of their beloved associate and member, Abram Stevens Hewitt, affectionately place the following minute upon their records:

“Mr. Hewitt became a member of this Board in the year 1874, when the Museum occupied the Arsenal Building in Central Park. He was identified with the selection of the Building site on Manhattan Square. He witnessed the laying of the corner-stone, and he has shared with us the responsibilities incidental to the growth of the institution to its present proportions. For more than a quarter of a century, and almost to the time of his death, January eighteenth, our deliberations have felt his encouraging influence. He has been a generous contributor, a loyal patron, a wise counselor and a sympathetic colleague. But in our sense of his loss to the American Museum, we do not forget his larger interests, defined by him as the ‘welfare of his fellow-citizens.’ Of comprehensive knowledge and broad experience, his mind was

alert, his intuition correct, his judgment quick, his speech incisive, his action final. Mere expediency exercised no influence over duty, and convictions were invariably supported by absolute fearlessness. When an individual combines such qualities as these, his removal is a real loss not to his friends alone, but to the people, the city, the state, the country, and, indeed, we may well say to the entire world. Though we may no longer listen to the charm of his conversation, or continue in the enjoyment of his congenial companionship, we feel that we are better for having known him, and we cherish his memory."

THE  
AMERICAN MUSEUM OF NATURAL HISTORY.





THE  
AMERICAN MUSEUM OF NATURAL  
HISTORY,

CENTRAL PARK, NEW YORK CITY,  
Seventy-seventh Street and Central Park West.

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ANNUAL REPORT OF THE PRESIDENT,  
TREASURER'S REPORT, LIST OF ACCESSIONS,  
ACT OF INCORPORATION, CONSTITUTION,  
BY-LAWS AND LIST OF MEMBERS  
FOR THE YEAR 1903.



NEW YORK:  
PRINTED FOR THE MUSEUM.

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1904.

IRVING PRESS  
225 FOURTH AVENUE  
NEW YORK

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1904.

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A. WOODWARD, Ph.D., Curator.

FORM OF BEQUEST.

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

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## THIRTY-FIFTH ANNUAL REPORT.

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*To the Trustees and Members of the American Museum of Natural History :*

The President submits herewith a report of the affairs of the Museum for the year 1903.

FINANCES.—In conformity with the recommendations of the Board of Trustees, the financial transactions of the Museum are divided into three separate accounts, and the details of the receipts, expenditures and investments for the year just closed, as embodied in the Treasurer's Report, will be found on pages 37 to 43 inclusive. These accounts and all books and vouchers have been duly examined and certified to by the Audit Company of New York. A few statements may help in making the details of this report clear.

THE PERMANENT ENDOWMENT—four hundred and forty thousand dollars—is far too small to approximate the needs of an institution doing the work that is attempted by the Museum. Although since the last annual meeting five thousand dollars has been added to this fund, the time has certainly arrived when the need of an endowment of at least one million dollars is urgently felt. This urgency is the more pronounced because of our peculiar relations with the City, the appropriations of which cannot be used for the purchase of specimens, for exploring expeditions or for the publication of scientific results.

SPECIAL FUNDS.—The Assistant Treasurer has continued to act as Treasurer of the Eastern Asiatic Research Fund and of the Andrew J. Stone Expedition Fund. Both of these funds, as originally provided, will soon be exhausted. The results of Dr. Laufer's explorations in China and the interest that several friends of the Museum have taken in him and his work are such as to encourage the belief that these researches will not be suspended. Mr. Stone's work among the arctic mammals of Alaska and British Columbia has

yielded substantial results, of importance far beyond our original expectation. But all of the scientific problems of the arctic are by no means solved; there remain other areas, the zoölogical, geographical and geological survey of which would well repay the investment of future appropriations.

**CITY MAINTENANCE ACCOUNT.**—The amount received from the City for the maintenance of the Museum (\$160,000) has remained the same as in 1902. While this is indeed a generous appropriation from the City, and is itself a substantial indication of the value that the City authorities place upon the work of the Museum, the amount is in reality too small to meet our running expenses and should be increased. For many years the Trustees have been obliged to make up deficiencies on this account, and the year 1903 has proved no exception, several members of the Board subscribing to a deficit of more than seven thousand dollars.

**GENERAL ACCOUNT.**—This is the account that reveals our regular sources of income and our regular expenditures for the development of the collections of the Museum at large, and it is by the examination from year to year of the receipts and expenditures as arranged under this account that one can most easily follow our general growth. The friends of the Museum are invited especially to subscribe to this general fund.

The year 1903, when compared with 1902, shows a small increase in our income from invested funds, an increase of \$1,300 in receipts from Life Members, and of \$1,490 in our receipts from Annual Members. Contributions by the Trustees make the total receipts on this account, \$78,050.30, which is approximately \$13,000 more than in 1902.

**ENDOWMENT AND INVESTMENT ACCOUNT.**—Friends of the Museum have often advanced the work of some particular Museum department because of their own interest in some branch of natural science, some special collection, or some particular country or locality. The sums of money thus contributed are kept apart, and an annual statement is published as the "Endowment and Investment Account." A report is also made, in the appropriate department, of the success of



field expeditions, of the value of collections or of the scientific results that have attended research.

THE BUILDING APPROPRIATIONS.—The construction on the appropriation of \$200,000 made by the City of New York, and mentioned in the Report of 1902, has progressed as rapidly as could be expected. The walls for the new power wing have been erected, the boilers installed, and the roof is in process of construction.

For several years the old lecture hall, near the main entrance, has been dismantled, and the condition of the basement grade has been such as to cause great inconvenience. Moreover, the above-mentioned appropriation for the new power plant was not sufficient to provide an adequate approach. These conditions led to our requesting the Board of Estimate and Apportionment for \$188,000, and on June 16, 1903, an ordinance was passed authorizing the expenditure of this amount. Under this appropriation work has already been started, and it is hoped that an attractive entrance hall will soon take the place of the present uninviting approach.

Early in the fall the Hon. William R. Willcox, acting as President of the Department of Parks, contracted for the grading of that portion of Manhattan Square lying to the north of the present building. The work is now well under way, although temporarily suspended because of the severity of the weather. The Park Board has wisely arranged the grades and walks of this new work so as to conform to the original plans of the Museum and to give a sightly appearance to the Square as a whole as section after section may be added to the present building.

MEMBERSHIP.—The Museum has gained 214 new annual members and has lost 67 members through death and resignation, leaving a net increase of 147. The income from membership fees is used for the purchase of collections and for the development of the educational work of the Museum. We wish to have our membership list increased, and we cordially invite those who are interested in our general work to unite with us.

The following have been elected Patrons:

MESSRS. LUDWIG MAX GOLD-	JAMES H. HYDE,
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CLEVELAND H. DODGE,	HENRY W. POOR,
HENRY CLAY PIERCE,	CORNELIUS C. CUYLER, and
MRS. EUGENE AUGUSTUS HOFFMAN	

The following have been elected Fellows:

MESSRS. SAMUEL N. HOYT,	CHARLES T. BARNEY,
HENRY W. POOR,	LEWIS S. THOMPSON,
JAMES C. CARTER,	H. B. HOLLINS,
F. AUGUSTUS SCHERMERHORN, and	MRS. HARRIET L. SCHUYLER

The following have been made Life Members:

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DR. HENRY C. ENO and	DAVIES COX, M.D.



DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—Although the collections of fossil vertebrates are now so complete that large purchases of new material are not often necessary, the possession of such collections carries with it many scientific obligations, and on no department of the Museum are there more frequent calls for scientific data or expert advice.

The Associate Curator made his second trip to the West Indies early in the year, investigating the volcanic phenomena that have followed the disturbances of 1902, and has prepared and carefully illustrated the work that the Museum has thus far accomplished in Martinique and other islands of the Lesser Antilles.

In August Dr. Hovey represented the Museum at the International Congress of Geologists held in Vienna; and in December he attended the conference of the Geological Society of America, held at St. Louis. At both these places he delivered papers bearing upon the work of the Museum.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—During the past year no department has more affected the general appearance of our exhibition halls than this. Early in the year the Shore Bird group was completed. It has been admired by thousands. Then followed the splendid group of Osborn Caribou, the White-fronted Musk-ox and the Sitka Deer. A small group illustrating the geographical variation of the Song Sparrow has excited considerable comment, and our illustrations of the mounted specimens of the Long-tailed Fowl have been extensively copied in various European journals.

From time to time the osteologist has added to the collection of skulls and antlers. These have been placed on panels in the corridors and exhibition halls. Those illustrating four species of Caribou, and the Black-tailed and Virginia Deer are noteworthy.

Several friends have united in the support of the work of this department. Mr. William F. Whitehouse has contributed a series of mammal skins from Abyssinia, and Messrs. Grant and Moore, several skins of the Mountain Caribou, Mountain

Goat, Black-tailed Deer, etc., from the Selkirks. The third year of the Andrew J. Stone Expedition has resulted in the capture of a splendid series of Bear, Sheep and Moose, not to mention more than eight hundred small mammals and several hundred birds.

An examination of the list of accessions in another part of this report will reveal our continued obligation to the New York Zoölogical Society and to the Menagerie of Central Park.

The Museum's expedition in Mexico, under Mr. J. H. Batty, has yielded most satisfactory results, and the funds made available, largely through the instrumentality of Mr. John L. Cadwalader, for the increase in the number of our bird groups, have made it possible for Mr. Chapman to spend considerable time in the field, collecting material, photographs, etc., for new groups, many of which are already well under way.

Our purchases have been noteworthy. They include the small but most interesting Collection of mammals and birds from Merida, Venezuela, and the Sennett Collection of birds (numbering nearly eight thousand specimens) from Texas and northeastern Mexico. The deposit by Dr. Jonathan Dwight, of about eight thousand specimens of North American birds, with full scientific data, materially adds to the resources of the Museum.

The Curator, Professor J. A. Allen, has completed and published a report on the Siberian mammals collected on the Jesup North Pacific Expedition; he has devoted much time to editorial work on the Museum *Bulletin*, prepared a paper describing several Patagonian rodents, written a report on the collection of mammals made by the Stone Expedition in 1902 and another report on Mr. Batty's Durango collection. He has prepared papers on other collections made by Mr. Batty; on the Carriker collection of mammals from Costa Rica, and the Colburn collection of mammals from the State of Vera Cruz, Mexico.

Mr. Chapman, besides his field work, has given much time to the general rearrangement of the study collections, made possible by the abolition of the Department of Taxidermy; and as a lecturer he has given freely of his time to the many

demands made by the Museum in connection with its educational work.

The number of mammals received during the year was 1,939; the number of bird skins was 10,237.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.—The splendid collection of minerals, one of the foremost in the world, and the extensive collection of shells, now the property of the Museum, are of such scientific completeness that large accessions of new material are simply impossible. Growth in this department must be slow, but our prestige can be maintained only by our taking advantage of every opportunity to improve and complete.

An examination of the list of accessions will show what new material has been added. Upon this list, as in previous years, we note the names of Miss Matilda W. Bruce, Mr. E. Schernikow, Mrs. Ida S. Oldroyd and Mr. F. A. Constable.

More than ever before the collections have been of scientific use, and during the summer Drs. Baskerville and Kunz examined practically every specimen in the entire collection while carrying on their investigations upon the reactions of minerals to radium, the X-rays and the ultra-violet rays. The expense of these experiments was largely borne by Mr. Edward D. Adams, whose gifts of valuable specimens of radium have kept the Museum in the front rank of those institutions which have been identified with experiments upon various radioactive agents.

DEPARTMENT OF VERTEBRATE PALEONTOLOGY.—The chief event of the year in this department was the establishment of a Division of Fossil Fishes, of which Professor Bashford Dean was appointed Honorary Curator. The agreement of Columbia University to deposit the Newberry Collection in the Museum results in a combination of collections of fossil fishes most advantageous to the Museum, the University and students of fossil ichthyology alike.

The total collection of fossil vertebrates now numbers 14,420 specimens, including the results of the following expeditions during the summer of 1903:

Whitney expedition for fossil horses.....	36
Bridger expedition for Lower Eocene mammals.....	427
Continued excavation of Bone Cabin Quarry.....	110
Expeditions for Cretaceous Plesiosaurs and Mosasaurs....	345
Exploration of Pleistocene cave deposit.....	243

*Evolution of the Horse.*—This is the third and last year of the important explorations with reference to the evolution of the horse, based on the original gift of \$15,000 by the late William C. Whitney. Altogether we have secured through these three expeditions 146 fossil horses, or 418 specimens of vertebrates altogether, including some such superb types as the Texas Glyptodon, the skulls of Mastodons, and the ancestral deer-antelope, *Merycodus*. The exhibition of the horse series has been enriched this year by adding the beautiful skeleton of *Neohipparion whitneyi* and *Mesohippus bairdii*. Casts of the specimens of fossil horses have been distributed to a large number of institutions, and the exhibition of the evolution of the horse is most popular. Researches for the monograph on the evolution of the horse are being carried on by Professor Osborn and Mr. J. W. Gidley. Some of the new osteological preparations by Mr. S. H. Chubb should be mentioned, especially a series of preparations of skulls and teeth, and of the complete skeleton of the draught horse in action.

The Bridger expedition was especially successful in demonstrating the existence of the armadillo in North America at a very early period, and in securing the complete skeleton of a fossil monkey. From the Cretaceous our series of marine reptiles or Mosasaur and Plesiosaur skeletons was greatly extended. From the Bone Cabin Quarry we were fortunate in adding to our collection of Dinosaur skulls. These are among the greatest rarities in the Museum.

The exhibition hall of fossil mammals has been completely re-arranged in a series of alcoves, each of which illustrates the evolution and distribution of a single group. This is found to greatly enhance the educational value of the exhibition.

Specimens from the Pampean Collection are beginning to find their way into the hall. In order to facilitate the prepara-

tion of this particular collection, a special subscription of \$1,200 by Messrs. James, Havemeyer, Dodge and Osborn was contributed. The fine Sabre-tooth Tiger skeleton has been mounted with this fund, and one of the large sloths is almost ready for mounting.

The hall has also been enriched by a number of additions to Knight's series of restorations of the extinct animals of North America, presented by Mr. J. Pierpont Morgan. Each restoration is now accompanied by a model; and the reproductions of both the models and the pictures are spreading the reputation of the Museum abroad and in this country.

We are indebted to Mr. Morgan also for the gift of the skull of the rare white rhinoceros.

Through exchange several casts have been received from Yale University Museum, and foot-tracks from the Middle Triassic, through Mr. Gordon.

The increasing scientific value of the collection is indicated by the increasing number of scientific visitors and of special students. A large number of scientific papers has been published by various members of the department.

Dr. O. P. Hay has been honored by a grant from the Carnegie Institution, enabling him to devote all his time to researches upon the evolution of the Testudinata. In return for the special privileges extended to Dr. Hay, the Institution has given him a special grant, so that our entire collection of Testudinata is now being prepared and will shortly be rearranged. In connection with this work for the Museum, Dr. Hay has received the title of Associate Curator in charge of Chelonia.

DEPARTMENT OF ARCHÆOLOGY.—With the beginning of the college year, Mr. Saville, the acting head of this department, accepted an appointment at Columbia University as Loubat Professor of American Archæology, his time and attendance at the Museum being so adjusted as to enable him to assume the new obligations incident to this appointment. In June, as a representative of the Museum, he went to Mexico and arranged for important exchanges with the authorities of the National



Museum, secured data bearing upon Mexican archæology, and re-examined the Ruins of Monte Alban.

The collections in the Loubat Hall have been arranged so as to show the geographical sequence of the several special culture areas of the ancient people of Mexico and Central America and the progress made by the various prehistoric nations. This has necessitated the provision of several new cases and the printing of a large number of descriptive labels. A guide to the hall is in process of preparation.

The general exhibits of the archæology of the United States have been enlarged through the material collected in the valley of the Columbia by Mr. Harlan I. Smith, and by minor additions, as will be noted by referring to the list of accessions. The preparation of a series of relief maps, illustrating the work of the ancient Mound Builders, has received considerable attention, and an exhibit, illustrative of the customs of the Atlantic Coast Indians, has been installed.

The return of Mr. A. F. Bandelier, after an absence of eleven years in Peru and Bolivia, has awakened interest in the Museum's large collection of archæological specimens from South America. Mr. Bandelier, assisted by Mrs. Bandelier, has undertaken the re-examination and rearrangement of all the material exhibited in the Peruvian gallery, and has added to the Museum's records scientific data, historical matter and incidental information, which greatly enhance their value.-

Mr. C. W. Mead has selected a series from the South American collections to illustrate the use of musical instruments by the Incas, and has written a very creditable guide leaflet on this subject.

In May, Dr. Aleš Hrdlička, who, through the liberality of the Messrs. Hyde, has for several years been attached to the Museum, received an appointment at the National Museum, Washington. While his departure from New York leaves a distinct vacancy in our scientific ranks, which may retard the development of the Museum's contemplated work in Physical Anthropology for a while, we are glad that the toil of one of our scientific men has received such prompt acknowledgment, and we wish him every success in his new undertaking.

Through the continued generosity of Dr. Frederick E. Hyde, Mr. Volk has gathered and finally arranged the vast quantity of material bearing upon the early appearance of man in the Trenton Gravel, and it is probable that this work, which was begun several years ago and has been carried on with the utmost patience and care, will soon be finished, the material installed and the results ready for publication.

Mr. George H. Pepper, in charge of the archæological and certain phases of the ethnological work in the southwest, has assiduously cared for the instructive display of the material in the exhibition halls; and through his work among the Indians during the past summer has brought to the Museum collections of pottery, blankets, photographs, etc., supplementing and enlarging the collections which were already in our possession, and largely the gift of Mr. B. Talbot B. Hyde and Frederick E. Hyde, Jr.

In concluding this the tenth report of this department, and in view of the appointment of its former curator, Professor F. W. Putnam, to a position in many respects of greater responsibility—viz., that of Director of the Department of Anthropology at the University of California—it is fitting that we should outline briefly the development at the American Museum of those departments which have been instituted under his advice and the administration of which has been assigned to his direction:

Professor Putnam was appointed Curator of Anthropology in the spring of 1894. At that time the exhibition of the collections relating to Man was confined to what is now the "Shell Hall," on the fifth floor, and the western half of the "Bird Gallery" on the third floor. There had been no systematic explorations, no scientific publications, and the head of the department had but a single assistant. Within these ten years the department has grown until, at the present time, the collections occupy eight large exhibition halls and twelve storage rooms. Explorations have been made throughout America and parts of Asia, the scientific publications fill a score of volumes, and the present department staff includes no less

than seven men of recognized scientific attainments. The Museum has lost a valuable aid from the scientific staff and a good friend and companion.

DEPARTMENT OF ETHNOLOGY.—The department has received notable accessions during the year, both from Museum expeditions and by exchange. The following deserve especial mention: From North America, the Kwakiutl collection obtained by Mr. Hunt, the Blackfoot, Gros Ventres and Sioux collection by Dr. Wissler, the Ojibwa by Mr. Jones, a collection illustrating Maidu ceremonials by Dr. Dixon, the Lower Thompson by Mr. Teit, a small collection from southern California by Miss DuBois and one from Oaxaca by Mr. Saville.

By arrangement with the Bureau of Missions, an interesting collection of African material from Angola and the Congo, made by Rev. Frank T. Lea, has been deposited with the Museum.

The Chinese collections by Dr. Laufer, made under the auspices of the East Asiatic Committee, have been largely increased by various shipments.

An especially valuable collection from central Australia has been obtained by exchange from the National Museum at Melbourne, Victoria.

The above, all except the Chinese and African collections, are installed, and on exhibition. The extensive material from Siberia, obtained by Messrs. Bogoras and Jochelson for the Jesup North Pacific Expedition, was placed in the Siberian Hall on the ground floor and opened to the public in September. The Demuth collection of pipes, with accessions received during the year, has been placed in the west wing on the second floor.

The Chinese collection has been placed temporarily in the cases in the corner gallery of the west wing, and is now in process of permanent installation.

Much attention has also been given to the preparation of models and figures illustrative of the life of the tribes of Siberia and of North America. Several of these groups are now ready for exhibition.

*The Huntington California Expedition* was continued during the summer by Dr. Dixon assisted by Mr. Howard B. Wilson. Mr. Wilson was attacked by typhoid fever shortly after reaching the field, and, when apparently convalescent, suffered a relapse and died. Mr. Wilson was a recent graduate of Harvard University, and had already shown marked promise as a worker in anthropology. His death is a loss both to the Museum and to science. Dr. Dixon continued his researches on the Maidu, Pit River and Shasta Indians, and brought back a mass of valuable information and specimens. It is gratifying to note that the scientific results of the Huntington Expedition are attracting wide and increasing interest among ethnologists.

*North American Research.*—Dr. Wissler proceeded in the spring of 1903 to Montana and Canada to continue his work among the Sioux, Gros Ventres and Blackfeet. He spent the summer among these Indians, and was again notably successful, his collection illustrative of the development of decorative art throwing much light upon a problem to which the department has given particular attention during recent years.

Mr. William Jones visited the Ojibwa of Canada, the Menominee and the Sauk and Fox, and made extensive collections both of material and information.

Both Dr. Wissler's and Mr. Jones's expeditions were conducted in coöperation with the Royal Ethnographical Museum of Berlin.

Mr. James Teit has continued his work among the tribes of the Lower Fraser and the Upper Thompson and Nicola Valleys.

Miss Constance Goddard DuBois visited the Diegueno of southern California, and obtained information with regard to their ceremonials and also a small collection of material for exhibition.

Rev. J. W. Chapman has been continuing his work for the Museum among the Indians of the Lower Yukon in Alaska.

Mr. Henry W. Tate is furnishing material for the department from the Tsimshian Indians of the North Pacific coast.

In the course of an expedition which he is conducting for the United States government, Dr. John R. Swanton has

undertaken to obtain additional information regarding Alaskan material now in the Museum.

Mr. Casper Mayer visited the Indian Congress on Long Island during the summer and succeeded in obtaining 33 casts of Indians, chiefly Sioux.

Capt. George N. Comer and Capt. James S. Mutch are in the Arctic, and are continuing their collections under the direction of the department.

*Expedition in China.*—During the past year Dr. Laufer has been actively pushing the work in China, carried on under the auspices of the East Asiatic Committee. Very extensive collections, referring particularly to the industrial life of the Chinese, have been received by the Museum. Dr. Laufer is expected to return to New York during the spring of 1904, and will give his personal attention to the installation of these collections.

From the *Jesup North Pacific Expedition*, the first Memoir by Mr. Bogoras on the Chukchee is now in press and will appear shortly. Mr. Bogoras is now in Europe and at work on the second part of his studies on the Chukchee, a large portion having been already completed. Mr. Jochelson has finished his first Memoir on the Koryak, and it will go to press in the near future, and Dr. Swanton has completed a lengthy Memoir on the Haida Indians, which is now ready for publication.

Although it will take some time to work up scientifically all the material that has come to the Museum as the result of this expedition, the demonstration of a close relationship existing between certain tribes of eastern Siberia and the aborigines of our own country is one of the results that it was originally hoped might come from this work.

Dr. Farrand is editing Mr. Teit's notes on the mythology of British Columbia, and it is expected that the work will be ready for the press during the first half of 1904.

Dr. Dixon has practically completed an exhaustive paper on the ethnology of the Maidu Indians of California.

Dr. Wissler has been engaged in revising his notes on the decorative art of the Sioux, in the light of information obtained by him during the summer.

Dr. A. L. Kroeber, of the University of California, is at work upon a detailed account of Arapaho ceremonials, based upon materials collected by him for the Museum.

Mr. William Jones has completed a paper upon the language of the Sauk and Fox, also based upon information collected in the course of Museum expeditions.

*Lectures.*—Professors Boas and Farrand have conducted a course of lectures on general ethnography for students of Columbia University, in the lecture room of the Museum, using the collections for purposes of illustration.

Dr. Wissler, assisted by Mr. Lewis, has given a course of lectures on primitive industries in connection with the extension work of Teachers College. This course has also been given at the Museum, and is based entirely upon the demonstration of specimens. Dr. Farrand will conduct a similar course during the summer of 1904, and it is hoped that work of this character will develop rapidly in the future.

DEPARTMENT OF ENTOMOLOGY.—After considerable time spent in arranging the collections, the new hall of this department (the gallery floor of the east wing) was opened on March 8, when the entire collection of butterflies, donated by the late Very Reverend Eugene A. Hoffman, was placed on exhibition for the first time. This donation consists of about five thousand specimens of *Lepidoptera*, arranged in fifteen cases on the east and the south side, and the local collection transferred from the old building to the new hall, occupying the rail cases. Excellent exhibition space has been given to specimens of insect architecture and to the Jesup collection of insects injurious to forest trees. Much time has been spent in the regular routine work of the department. The sets of insects for the use of schools have been in circulation, and many specimens from our study collections have been used by visiting scientists.

Among the notable additions to the department is a collection of over eight thousand *Diptera*, containing more than one thousand species and one hundred and seventy types, given by

Dr. William Morton Wheeler. This gift raises our collection of *Diptera* to the first rank of scientific importance.

A valuable collection of Gall Insects (*Cynipidae*), containing several thousand specimens and many types, has been donated by Mrs. Margaret Bassett.

Mr. Samuel V. Hoffman has generously continued the work begun by his father in the Black Mountains and made it possible for the Curator to spend seven weeks in this region, extending the work commenced in 1900. Mr. Hoffman has contributed also towards the purchase of *Lepidoptera*.

Mr. Beutenmüller's publications are referred to in another part of this report.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—During the past year all the material in the department has been thoroughly overhauled, classified and catalogued, and duplicate specimens set aside for exchange and for the use of the public schools. Considerable progress has been made in the installation of specimens for exhibition. Thirty compound microscopes are mounted in the cases so as to show typical forms of the Protozoa, which are too small to be seen by the naked eye. For the material used in this exhibit the Museum is indebted to Professor Gary N. Calkins. Dr. Dahlgren has prepared a number of beautiful models of Radiolarians, Foraminifera, Planarians, Nemerteans, Hydroids, and of the Oyster and Quahog Clam. Many of the specimens in the fine collection of Japanese glass-rope sponges, secured for the Museum by Professor Bashford Dean, have been bleached and mounted. A fine large specimen of the Giant Spider Crab of Japan has been mounted and placed on the south wall of the Synoptic Hall. Small biological collections, representing geographical variation, gynandromorphism and the life-history of the boll-weevil, have been put on exhibition, and others are in course of preparation.

The following donations to the department are especially noteworthy: The department has acquired a specimen of a very rare Selachian, taken at a depth of five hundred fathoms in the Japan Sea. Four specimens of a rare form of some

of the corals were donated by Professor Whitfield. Through Commissioner George M. Bowers, a number of Hawaiian fishes were received, and Dr. Joseph Thompson, U. S. N., donated a collection of fishes from Dry Tortugas. The New York Zoölogical Society donated several fine specimens of snakes, which have been mounted for exhibition. From Dr. C. H. Eigenmann were received representatives of all but one of the species of cave vertebrates of the United States. Several insect preparations, representing metamorphoses, and typical forms for the synoptic collection, were purchased from the Kny-Scheerer Co. A fine collection of different species of mosquitoes, with their larvæ and pupæ, was purchased as a preliminary step toward installing a collection to illustrate the origin of malaria.

By far the most important work entrusted to and accomplished by the department was that of Mr. Sherwood, who has succeeded in putting the relations of the Museum to the public schools of the city on a firm scientific and pedagogical basis. The collections of specimens and the careful outlines of hints for the teachers in their use of the collections are an enormous advance on all former attempts of the Museum in this direction. To this fact the appreciation of the teachers is an eloquent witness. From all parts of the city have been received numerous requests from teachers for material to aid them in their nature-study work.

To meet these requests we have made up from our duplicate specimens study collections of invertebrates and birds, which are loaned for short periods to any school in the city making application for them. For this work the Department of Entomology has prepared 35 cases of insects, the Department of Mineralogy and Conchology 25 sets of mollusk shells and 20 sets of minerals, the Department of Mammalogy and Ornithology 20 sets of birds, the Department of Archæology and Ethnology 5 sets of anthropological implements. These collections have been turned over to the Department of Invertebrate Zoölogy, and, with the 80 sets of invertebrates prepared from our own specimens, make a total of 175 collections which are available as loans to the schools. Each species



of a collection is accompanied by an individual label giving common name, scientific name and locality. The collections are especially welcome in the schools of the lower East Side, where we have found as many as 4,000 children in a building and scarcely a single specimen to illustrate nature work.

A great number of school children, both singly and accompanied by their teachers, have studied the collections during the year, and a number of lectures, especially designed for school children, have been given by Mr. Sherwood and some of the teachers.

During the second quarter of the year there were many inquiries from artists, writers, business men and other visitors, especially foreign travelers, for information concerning subjects pertaining to the department.

Professor W. M. Wheeler assumed his duties as Curator of the department in September. Dr. Duerden, Honorary Curator of Coelenterates, has been engaged in negotiating exchanges in corals with some of the larger museums in England, Ireland and this country.

The following papers have been contributed by members of the department during the past year: J. E. Duerden, "West Indian Sponge-incrusting Actinians;" W. M. Wheeler, "Some Notes on the Habits of *Cerapachys*," *Psyche*, Vol. X, 1903; "Extraordinary Females in Three Species of *Formica*, etc.;" "Some New Gynandromorphous Ants, etc." *Bull. Am. Mus. Nat. Hist.*, Vol. XIX, 1903.

DEPARTMENT OF BOOKS AND PUBLICATIONS.—The adoption of the decimal system (a generally approved method of classification) and the placing of the library of the New York Academy of Sciences and that of the American Ethnological Society in our custody have necessitated the classification of the combined libraries and the rejection of much duplicate material. Some idea of the amount of labor involved may be gathered from the fact that the time of six assistants during the entire year has been devoted exclusively to this work.

The anthropological, archæological and ethnological books have been brought together and installed in the room of the

Anthropological Seminary, where they are now available for reference.

The contiguity of several large educational and scientific institutions in and about New York has made imperative the existence of a large, complete and well arranged library of science; and it seems destined that the Museum, occupying, as it does, a central position, employing a large staff of scientific workers, and offering assembly and lecture halls, laboratories and instruments to scientists and students of natural history, should be the institution to bring together and arrange for general consultation a library bearing upon the various branches of natural science. With this in view, the work of the past year may be considered as the laying of a foundation upon which such a library may be built—a library that will not duplicate the work that is being done by our neighbor on the north, the National Geographical Society, or our neighbor on the south, the New York Historical Society, but a library that nevertheless will require the expenditure of considerable sums of money for the purchase of special books of reference and for the completion of imperfect series of volumes now in our possession.

An entire set of bibliographical cards, published by the Concilium Bibliographicum at Zurich, has been received, and, what is of quite as much moment, these cards have been so classified that one desiring specific information in regard to any current zoölogical article, may find easy reference. The employment of a binder has greatly reduced the expense of keeping our books in repair and has solved the problem of the care and classification of reprints.

The reorganization of the general work of this department has necessitated a revision of our exchange list. The printing and distribution of the Bulletins and Memoirs are now carried on according to the following schedule:

1. The regular edition of the scientific publications consists of six hundred copies.
2. An author desiring copies in addition to those provided for below may have the same at cost, provided a request is made to the Editor at the time the manuscript is submitted.

3. The Curator of Books and Publications, on receiving an edition from the printer or binder, arranges and disposes of the publication as follows:

a. A "reserve series" of fifty copies is set apart, not for the present to be drawn upon, and for distribution in complete sets only;

b. An "author's series" of twenty-five copies is handed to the author for his private use;

c. A "reference series" not to exceed two hundred copies is issued to the leading libraries, museums and educational institutions of the world, it being the purpose to have the list of these institutions made with care, and to place, either by sale or gift, a complete set of our publications in each for reference for all future time.

d. An "exchange series" not to exceed one hundred copies is issued to such institutions, organizations and individuals as may furnish an equivalent exchange.

e. A "general series," from which are drawn copies for distribution among working men of science (as may be recommended by the heads of departments and duly approved by the Director), for the preparation of "reviews," for distribution among friends of the Museum, for use among field helpers, for use as complimentary copies, sales, etc.

Following is a list of the scientific publications of the Museum issued in 1903, as received by the Curator for distribution and exchange:

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALAEONTOLOGY.

*Bulletin*, Volume XIX.

C. H. Hitchcock. "Notice of a Species of *Acidaspis* from a Boulder of Marcellus Shale, Found in Drift, at West Bloomfield, New Jersey." (Pages 97-98, plate vi.)

R. P. Whitfield. "Notice of Six New Species of *Unios* from the Laramie Group." (Pages 483-487, plates xxxviii-xl.)

R. P. Whitfield. "Observations on a Remarkable Specimen of *Halysites* and Description of a New Species of the Genus." (Pages 489-490, plates xli and xlii.)

*Journal*, Volume III.

E. O. Hovey. "Martinique and St. Vincent Revisited." (Pages 38-56, 9 illustrations.)

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

*Bulletin*, Volume XIX.

J. A. Allen. "Description of a New Species of *Sigmodon* from Ecuador." (Pages 99-100.)

J. A. Allen. "Report on the Mammals Collected in Northeastern Siberia by the Jesup North Pacific Expedition, with Itinerary and Field Notes by N. G. Buxton." (Pages 101-184.)

J. A. Allen. "Descriptions of New Rodents from Southern Patagonia, with a Note on the Genus *Eumecomys* Coues, and an Addendum to Article IV. on Siberian Mammals." (Pages 185-196.)

J. A. Allen. "Mammals Collected in Alaska and Northern British Columbia by the Andrew J. Stone Expedition of 1902." (Pages 521-567.)

J. A. Allen. "List of Mammals Collected by Mr. J. H. Batty in New Mexico and Durango, with Descriptions of New Species and Subspecies." (Pages 587-612.)

J. A. Allen. "A New Deer and a New Lynx from the State of Sinaloa, Mexico." (Pages 613-615.)

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

*Memoirs*, Volume I.

H. F. Osborn. "The Reptilian Subclasses Diapsida and Synapsida and the Early History of the Diaptosauria." (Pages 449-508, plate xl, and 24 text figures.)

*Bulletin*, Volume XIX.

O. P. Hay. "On Certain Genera and Species of North American Cretaceous Actinopterosus Fishes." (Pages 1-95, plates i-v, and 72 text figures.)

W. D. Matthew. "The Fauna of the Titanotherium Beds at Pipestone Springs, Montana." (Pages 197-226, with 19 text figures.)

W. D. Matthew. "A Fossil Hedgehog from the American Oligocene." (Pages 227-229, with 1 text figure.)

W. K. Gregory. "Adaptive Significance of the Shortening of the Elephant's Skull." (Pages 387-394, plate xxiii, and 4 text figures.)

O. P. Hay. "On a Collection of Upper Cretaceous Fishes from Mount Lebanon, Syria, with Descriptions of Four New Genera and Nineteen New Species." (Pages 395-452, plates xxiv-xxxvii.)

Barnum Brown. "A New Species of Fossil Edentate from the Santa Cruz Formation of Patagonia." (Pages 453-457, with 2 text figures.)

Henry Fairfield Osborn. "*Ornitholestes hermanni*, A New Compsognathoid Dinosaur from the Upper Jurassic." (Pages 459-464, with 3 text figures.)

J. W. Gidley. "A New Three-toed Horse." (Pages 465-476.)

J. W. Gidley. "On Two Species of *Platygonus* from the Pliocene of Texas." (Pages 477-481, with 5 text figures.)

Henry Fairfield Osborn. "*Glyptotherium texanum*, A New Glyptodont, from the Lower Pleistocene of Texas." (Pages 491-494, plate xliii.)

Barnum Brown. "A New Genus of Ground Sloth from the Pleistocene of Nebraska." (Pages 569-583, plates l and li.)

J. W. Gidley. "The Fresh-water Tertiary of Northwestern Texas. American Museum Expeditions of 1899-1901." (Pages 617-635, plates lii-lviii, and 4 text figures.)

Richard Swann Lull. "Skull of *Triceratops serratus*." (Pages 685-695, plate lix, and 1 text figure.)

Henry Fairfield Osborn. "The Skull of *Creosaurus*." (Pages 697-701, with two text figures.)

DEPARTMENT OF ETHNOLOGY.

*Memoirs*, Volume III.

G. T. Emmons. "The Basketry of the Tlingit." (Pages 229-278, plates v-xviii, and 73 text figures.)

*Bulletin*, Volume XIX.

Aleš Hrdlička. "Divisions of the Parietal Bone in Man and Other Mammals." (Pages 231-386, plates vii-xxii, and 39 text figures.)

*Journal*, Vol. III.

F. Boas. "The Jesup North Pacific Expedition." (Pages 71-119, 2 maps, 20 illustrations.)

DEPARTMENT OF ARCHÆOLOGY.

*Memoirs*, Volume IV.

Harlan I. Smith. "Shell Heaps of the Lower Fraser River, British Columbia." (Pages 133-192, plates vi and vii, and 51 text figures.)

DEPARTMENT OF ENTOMOLOGY.

*Bulletin*, Volume XIX.

William Beutenmüller. "Notes on Some Species of *Catocala*." (Pages 505-510.)

William Beutenmüller. "Notes on Some Beetles from the Black Mountains, with Descriptions of New Species." (Pages 511-519, plates xlviii and xlix.)

William Beutenmüller. "Description of a New Moth from North Carolina." (Pages 585-586.)

William Beutenmüller. "A New Katydid from Florida." (Pages 637-638, with 1 text figure.)

DEPARTMENT OF INVERTEBRATE ZOOLOGY.

*Bulletin*, Volume XIX.

J. E. Duerden. "West Indian Sponge-incrusting Actinians." (Pages 495-503, plates xlv-xlvii.)

William Morton Wheeler. "Extraordinary Females in Three Species of *Formica*, with Remarks on Mutation in the Formicidæ." (Pages 639-651, with 3 text figures.)

William Morton Wheeler. "Some New Gynandromorphous Ants, with a Review of the Previously Recorded Cases." (Pages 653-683, with 11 text figures.)

Five numbers of *The American Museum Journal* were issued, and in connection with four of the numbers Guide Leaflets were issued as supplements, as follows:

"The Evolution of the Horse".....	W. D. Matthew
"The Hawk-moths of the Vicinity of New York City"....	Wm. Beutenmüller
"The Musical Instruments of the Incas".....	Charles W. Mead
"The Collection of Fossil Vertebrates".....	W. D. Matthew

DEPARTMENT OF MAPS AND CHARTS.—Dr. Woodward has spent the entire year in the preliminary work of classifying, preparing and cataloguing the Museum's collection of maps and charts, and by the end of another year it is hoped that these will be in such shape that they will be available for reference.

TRANSPORTATION.—The mere tabulation of the various railways and transportation companies that, through the granting of passes and special rates, have assisted our field work—indeed, one might almost say that have made this work possible—is not an adequate acknowledgment of our indebtedness. We feel that these corporations are co-workers with us, and that any credit the Museum may receive for its effort to promote science and educate the people should be shared with those who have united with us towards this common end. The list is as follows :

Atchison, Topeka & Santa Fé Railway.  
 Canadian Pacific Railway.  
 Chicago & Northwestern Railway.  
 Chicago, Milwaukee & St. Paul Railway.  
 Chicago, Burlington & Quincy Railway.  
 Canadian Northern Railway.  
 Chicago, Rock Island & Pacific Railway.  
 Erie Railroad.  
 Great Northern Railway.  
 Missouri Pacific Railway.  
 Illinois Central Railroad.  
 Mexican International Railroad.  
 Mexican Central Railway.  
 Mexican National Railway.  
 Northern Pacific Railway.  
 Southern Pacific Company.  
 Southern Railway.  
 Union Pacific Railroad.  
 Wabash Railway.

THE ATTENDANCE.—On several occasions during the year, the attendance has been such as to tax our resources. The largest daily attendance during the history of the Museum was recorded on February 23, when 7,470 visitors entered the building. The total lecture attendance was 76,779. The number of scholars visiting the Museum for purposes of study has risen from 5,000 in 1902 to 7,032 in 1903, and the number of teachers accompanied by students, i. e., the number of formal classes meeting at the Museum has risen from 317 to 430. This is largely due to the effort that has been made to bring the Museum into active co-operation with the teachers of the City and to provide according to their requests. The total attendance for the year was 388,090.

ASSOCIATED SOCIETIES AND ORGANIZATIONS.—The Museum from year to year is becoming more and more a place for the meeting of men interested in science and education. The following organizations have held meetings during the year, and frequently have offered scientific programmes sufficiently attractive to fill the assembly rooms to overflowing:

The New York Academy of Sciences.

(Astronomy, Physics and Chemistry; Biology; Geology and Mineralogy; Anthropology and Psychology.)

The Linnæan Society of New York.

The New York Entomological Society.

The New York Mineralogical Club.

Audubon Society.

New York Historical Society.

American Ethnological Society.

American Institute of Mining Engineers.

West Side Natural History Society.

New York Council of the Sequoia League.

National Indian Association.

Prof. H. F. Osborn's class in Paleontology.

Prof. M. H. Saville's class in Archæology.

Dr. J. E. Peabody's class in Zoology.

Dr. Clark Wissler's class in Ethnology.

LECTURES.—The courses of lectures to teachers, provided for by a grant from the State, were continued, and Professor Bickmore delivered the following:

*Spring Course.*

January	24—Oxford, Westminster and the Coronation.
“	31—Oxford, Westminster and the Coronation.
February	7—Glasgow and Edinburgh.
“	14—Glasgow and Edinburgh.
“	21—The Adirondack Park.
“	28—The Adirondack Park.
March	7—American Forests.
“	14—American Forests.

*Autumn Course.*

October	17—The Development of New York City.
“	24—The Development of New York City.
“	31—Niagara Falls.
November	7—Niagara Falls.
“	14—Germany—Berlin.
“	21—Germany—Berlin.
“	28—Germany—Potsdam and Dresden.
December	5—Germany—Potsdam and Dresden.

The following were delivered to members of the Museum by Professor Bickmore unless otherwise indicated:

*Spring Course.*

March	5—Oxford, Westminster and the Coronation.
“	12—Glasgow and Edinburgh.
“	19—The Adirondack Park.
“	26—American Forests.

*Autumn Course.*

November	12—Mount Pelé and the Destruction of St. Pierre. (Dr. E. O. Hovey.)
“	19—The Development of New York City.
December	3—Niagara Falls.
“	10—Germany—Berlin.
“	17—Germany—Potsdam and Dresden.

The following were delivered to the public on holidays:

New Year's Day, January 1, 1903—The Western Riviera.
Washington's Birthday, February 23, 1903—The Eastern Riviera.
Labor Day, September 7, 1903—Bird Life About New York City. (Frank M. Chapman.)
Election Day, November 3, 1903—Life Among the Navajo Indians. (George H. Pepper.)
Thanksgiving Day, November 26, 1903—The Development of New York City.
Christmas Day, December 25, 1903—Germany—Berlin and Dresden.

Under the supervision of the Board of Education of the City of New York, in coöperation with the American Museum of Natural History, the following lectures were delivered:



Tuesday evenings.

January	6—London: The World's Metropolis. . . . .	Thomas Edward Potterton
"	13—Berlin and Military Life in Germany. . . . .	Prof. Henry Zick
"	20—Paris. . . . .	Ernest R. Holmes
"	27—Switzerland. . . . .	W. Torrence Stuchell
February	3—Venice. . . . .	Dr. Augusta J. Chapin
"	10—Naples and Pompeii. . . . .	Dr. Augusta J. Chapin
"	17—Spain. . . . .	William Freeland
"	24—La Belle France. . . . .	R. S. Dawson
March	3—Florida. . . . .	Arthur C. Jackson
"	10—The Bermudas. . . . .	Prof. Charles L. Bristol
"	17—Martinique and the Mt. Pelé Tragedy. . . . .	Roland S. Dawson
"	24—The Land and People of Central America. . . . .	Prof. Emory R. Johnson
"	31—The West Indies. . . . .	George Donaldson
April	7—The Land of the Incas. . . . .	Mrs. Alice D. Le Plongeon
"	14—The West Coast of South America. . . . .	Ernest C. Rost
"	21—Panama and Venezuela. . . . .	Peter MacQueen
"	28—Life in Argentine. . . . .	Dr. E. L. Corthell
October	6—Saunterings in Merrie England. . . . .	Thomas Edward Potterton
"	13—Scotland. . . . .	W. T. Dorward
"	20—Finland and Its People. . . . .	H. Montague Donner
"	27—The Netherlands. . . . .	Hon. George F. Corey
November	3—The Picturesque Rhine. . . . .	Francis L. Strickland
"	10—Nuremberg. . . . .	W. D. P. Bliss
"	17—Spain. . . . .	F. E. Partington
"	24—Rome as It Is To-day. (An interesting account of present conditions in the imperial city.) . . . .	Frank A. Gallup
December	1—Venice. . . . .	E. C. Chorley
"	8—Florence, the City of Art and Memories. . . . .	Alfred J. Talley
"	15—Constantinople. . . . .	Theo. Chopourian

Saturday evenings.

January	10—Magnetism and Diamagnetism. . . . .	Prof. E. R. von Nardroff
"	17—Electricity at Rest. . . . .	Prof. E. R. von Nardroff
"	24—Electricity in Motion: Its Chemical Effects. . . . .	Prof. E. R. von Nardroff
"	31—Electricity in Motion: Its Heating Effects. . . . .	Prof. E. R. von Nardroff
February	7—Electricity in Motion: Its Magnetic Effects. . . . .	Prof. E. R. von Nardroff
"	14—Electricity in Motion: Its Inductive Effects. . . . .	Prof. E. R. von Nardroff
"	21—Cathode Rays, X-Rays, Radium Rays. . . . .	Prof. E. R. von Nardroff
"	28—Electromagnetic Waves: Their Properties and Uses. . . . .	Prof. E. R. von Nardroff
March	7—Our Water Supply: How We Get It and How We Waste It. . . . .	Thomas A. Fulton
"	14—Fresh-water Fish and Fish Culture. . . . .	W. E. Meehan
"	21—The Message of the Flowers. . . . .	Silas H. Berry
"	28—Birds in Nature. . . . .	Frank M. Chapman

April	4—The General Principles of Organic Evolution.	Dr. Henry E. Crampton
"	11—The Physical Evolution of the Human Species.	Dr. Henry E. Crampton
"	18—The Racial Evolution of Man. . . . .	Dr. Henry E. Crampton
"	25—The Mental and Moral Evolution of Man.—Natural Selection and Ethical Evolution.	Dr. Henry E. Crampton
October	3—Plant Life: The Large Groups and Their Characteristics.	Prof. Francis E. Lloyd
"	10—Plants in Their Environment; Adaptations; the Struggle for Existence; Geographical Distribution.	Prof. Francis E. Lloyd
"	17—The Vegetation of the Arctic Regions and of Mountain Tops. . . . .	Prof. Francis E. Lloyd
"	24—The Vegetation of the Temperate Regions: The Forests.	Prof. Francis E. Lloyd
"	31—The Vegetation of the Temperate Regions: The Deserts.	Prof. Francis E. Lloyd
November	7—The Vegetation of the Tropics: The Vegetation of Dominica as a Type. . . . .	Prof. Francis E. Lloyd
"	14—Climate and Mankind: Introduction: The General Relations of People to Climate as Seen in Their Occupations, Manners and Customs, and State of Civilization. . . . .	Prof. Richard Elwood Dodge
"	21—Life in Deserts. . . . .	Prof. Richard Elwood Dodge
"	28—Life in Temperate Forest and Grass Lands, as Determined by the Conditions of Vegetation and Climate.	Prof. Richard Elwood Dodge
December	5—Life in the Tropical Forests, as Compared with that in Other Climatic Regions. . . . .	Prof. Richard Elwood Dodge
"	12—Mountains and People: The Influence of Mountains Upon Peoples as Seen in Their Customs, Trade Relations, and in the Effect Upon Their Imagination.	Prof. Richard Elwood Dodge
"	19—Plains People: Their Life, Customs, Economic Condition, State of Civilization, etc., as Determined by Their Environment. . . . .	Prof. Richard Elwood Dodge

In conclusion I would say that the essential features that have characterized the year 1903 have been the addition of many new names to our list of members, the extension of our educational work through lectures and circulating collections, the enlargement of our building, the increase in the personnel of the scientific staff and the scientific researches and announcements that have resulted from our exploring expeditions.

Very truly yours,

MORRIS K. JESUP,  
*President.*

# FINANCIAL STATEMENT.

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## *PERMANENT ENDOWMENT.*

General Fund.....	\$420,000 00
JOHN B. TREVOR Fund.....	10,000 00
JOSIAH M. FISKE Fund.....	10,000 00
	\$440,000 00
	\$440,000 00

## *SPECIAL FUNDS.*

### *EASTERN ASIATIC RESEARCH.*

#### RECEIPTS, 1903.

Cash in bank January 1, 1903.....	\$7,187 73
Interest on Credit Balances.....	109 20
Sale of Publications.....	202 84
	\$7,499 77

#### DISBURSEMENTS, 1903.

Payments to Berthold Laufer, salary, expenses of expedition and purchase of specimens, etc.....	\$6,009 60
Sundry bills, custom house fees, freight charges, etc. . .	101 11 6,110 71
Cash in bank December 31, 1903.....	\$1,389 06
	\$1,389 06

NOTE.—The total receipts from 1901 to December 31, 1903, have been \$19,032.77. The total disbursements during this time have been \$17,643.71.

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### *ANDREW J. STONE EXPEDITION.*

#### RECEIPTS, 1903.

Cash in bank January 1, 1903.....	\$2,489 38
Estate of James M. Constable.....	2,000 00
Contributions received through Madison Grant.....	1,900 00
Interest on Credit Balances.....	59 65
	\$6,449 03

#### DISBURSEMENTS, 1903.

Andrew J. Stone, salary, expenses in the field, etc., 1903.	\$5,479 52
Freight, transportation, etc . . . . .	114 40 5,593 92
Cash in bank December 31, 1903.....	\$855 11
	\$855 11

NOTE.—The total receipts from 1901 to December 31, 1903, have been \$15,217.54. The total disbursements during this time have been \$14,362.43.

JOHN H. WINSER, *Treasurer.*

[E. & O. E. excepted.]

Correct.—E. L. MASSETT, *Auditor.*

NEW YORK, December 31, 1903.

*CITY MAINTENANCE ACCOUNT.*

RECEIPTS.

Capital Account, January 1, 1903.....		\$15,000 00
Department of Parks.....	\$160,000 00	
Transfer from Trustees Account in General Account to meet deficit.....	7,268 54	
Refund from General Account.....	100 00	167,368 54
Interest on Balances.....		131 66
		<hr/>
		\$182,500 20
		<hr/> <hr/>

Examined and approved. { ANSON W. HARD,  
GEORGE G. HAVEN,  
GUSTAV E. KISSEL. } *Auditing  
Committee.*

*CITY MAINTENANCE ACCOUNT.*

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$6,225 16	
Mammalogy and Ornithology.....	7,359 67	
Mineralogy .....	3,660 35	
Vertebrate Palæontology.....	11,408 42	
Archæology.....	9,650 36	
Ethnology.....	10,361 08	
Entomology.....	2,384 35	
Invertebrate Zoölogy.....	5,066 12	
Library.....	7,786 16	
Preparation and Exhibition.....	12,363 52	
General Supplies and Expenses.....	4,326 04	
Heating and Lighting.....	20,681 33	
Repairs and Installation.....	24,002 03	
Administration .....	42,093 95	
		\$167,368 54
Interest on Balances transferred to General Account.....		131 66
Cash on hand December 31, 1903.....		15,000 00
		<u>\$182,500 20</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *December 31, 1903.*



GENERAL ACCOUNT.

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$1,186 49
Mammalogy and Ornithology.....	3,575 36
Mineralogy.....	209 00
Vertebrate Palæontology.....	7,616 29
Archæology.....	10,462 08
Ethnology.....	8,012 19
Entomology.....	297 83
Invertebrate Zoölogy.....	1,325 53
Library.....	2,190 53
Department of Public Instruction.....	9,101 80
Preparation and Exhibition.....	3,092 11
Publications.....	10,751 03
General Supplies and Expenses.....	3,163 89
Fixtures Account.....	6,663 04
Endowment and Investment Account:	
Transfer to Permanent Endowment for the purchase of bonds.....	170 62
City Maintenance Account:	
Transfer to this account to balance deficit.....	7,268 54
Interest on Loans and Overdrafts.....	126 11
	<u>\$75,242 44</u>
Cash on hand December 31, 1903.....	2,807 86

\$78,050 30

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, December 31, 1903.

ENDOWMENT AND INVESTMENT ACCOUNT.

RECEIPTS.

MAMMALOGY AND ORNITHOLOGY :		
North American Ornithology Fund :		
John L. Cadwalader.....	\$500 00	
F. Aug. Schermerhorn.....	250 00	
H. B. Hollins.....	250 00	
Henry W. Poor.....	200 00	
Mrs. Harriet L. Schuyler.....	200 00	
Henry Clay Pierce.....	500 00	
James C. Carter.....	250 00	
	<u>2,450 00</u>	
John L. Cadwalader Fund, balance.....	25 51	\$2,475 51
MINERALOGY AND CONCHOLOGY :		
Frederick A. Constable, gift.....	140 00	
Edward D. Adams, gift.....	274 50	
Matilda W. Bruce, gift.....	<u>100 00</u>	514 50
VERTEBRATE PALÆONTOLOGY :		
Wm. C. Whitney Fund.....	5,209 90	
Pampean Collection of Fossils :		
H. O. Havemeyer.....	\$400 00	
A. C. James.....	200 00	
Wm. E. Dodge.....	400 00	
Prof. Henry F. Osborn.....	<u>200 00</u>	
	1,200 00	6,409 90
ARCHÆOLOGY :		
Delaware Valley Research, Dr. Frederick E. Hyde.....	1,080 74	
Hyde Exploration Fund, B. T. Babbitt Hyde... ..	1,200 00	
International Congress of Americanists, balance... ..	1,680 75	
Folk Ceramic Fund, Mrs. Robert W. de Forest... ..	<u>2,990 00</u>	6,960 49
ETHNOLOGY :		
Jesup North Pacific Expedition, Morris K. Jesup, balance.....	1,469 62	
Oregon and Yukon River Ethnographical Research, balance.....	200 00	
Ethnological Research Fund, Franz Boas.....	266 65	
Huntington California Fund, Mrs. C. P. Huntington, Archer M. Huntington.....	1,009 00	
Archer M. Huntington Fund, balance.....	48 46	
Wm. Demuth Collection of Pipes.....	223 52	
Berlin North American Fund.....	<u>945 60</u>	4,162 85
ENTOMOLOGY :		
Hoffman Black Mountain Expedition, Samuel V. Hoffman.....	300 00	
African Insect Fund, Samuel V. Hoffman.....	<u>50 00</u>	350 00
FORESTRY :		
Mrs. C. P. Huntington Fund, balance.....		124 33
<b>Total receipts for the development of specific departments.....</b>		<u>\$20,997 58</u>
PERMANENT ENDOWMENT :		
Bequest of Samuel D. Babcock.....	4,762 50	
Cash on hand January 1, 1903.....	25 91	
Transfer from General Account.....	<u>170 62</u>	4,959 03
INTEREST ON CREDIT BALANCES :		
Cash on hand January 1, 1903.....	454 82	
Earnings to December 31, 1903.....	<u>208 02</u>	662 84
		<u>\$26,619 45</u>

Examined and approved. { ANSON W. HARD, } *Auditing*  
 { GEORGE G. HAVEN, } *Committee.*  
 { GUSTAV E. KISSEL. }



ENDOWMENT AND INVESTMENT ACCOUNT.

DISBURSEMENTS.

MAMMALOGY AND ORNITHOLOGY :		
North American Ornithology Fund.....	\$1,439 11	
John L. Cadwalader, gift (balance).....	25 51	\$1,464 62
MINERALOGY AND CONCHOLOGY :		
Frederick A. Constable, gift.....	140 00	
Edward D. Adams, gift.....	274 50	
Matilda W. Bruce, gift.....	100 00	514 50
VERTEBRATE PALÆONTOLOGY :		
Wm. C. Whitney Fund.....	4,568 78	
Pampean Collection of Fossils.....	644 48	5,213 26
ARCHÆOLOGY :		
Delaware Valley Research.....	1,080 74	
Hyde Exploration Fund.....	1,200 00	
International Congress of Americanists Fund ...	69 00	
Folk Ceramic Fund.....	2,590 11	4,939 85
ETHNOLOGY :		
Jesup North Pacific Expedition.....	1,469 62	
Oregon and Yukon River Ethnographical Research .....	200 00	
Ethnological Research Fund.....	180 00	
Huntington California Fund.....	1,009 00	
Archer M. Huntington Fund.....	48 46	
Wm. Demuth Collection of Pipes.....	50 00	
Berlin North American Fund.....	945 60	3,902 68
ENTOMOLOGY :		
Hoffman Black Mountain Expedition.....	300 00	
African Insect Fund.....	50 00	350 00
<b>Total disbursements for the development of specific departments.....</b>		<b>\$16,384 91</b>
Permanent Endowment.....		4,959 03
Interest on Credit Balances.....		662 84
Cash on hand December 31, 1903.....		4,612 67
		<hr/>
		<b>\$26,619 45</b>

[E. & O. E.]  
NEW YORK, December 31, 1903.

CHARLES LANIER, *Treasurer.*

# LIST OF ACCESSIONS, 1903.

## DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

### BY DONATION.

- CHARLES T. BEACH, Hartford, Conn.  
Section of Ulodendon trunk, from Raub Mine, Kingston, Luzern  
Co., Pa.
- C. P. LAURIE, Erie, Pa.  
1 *Ammonites manguenestii*, 1 *Pecten æquivalvis*, 1 *Plagiostoma gigan-*  
*teum*, 1 *Plagiostoma punctatum*.
- GEORGE A. GLAENZER, New York City.  
1 Cast of *Opis Truellei*, from Cadouin, Dordogne, central France.
- REV. R. B. POST, Elizabeth, N. J.  
35 Specimens of Miocene fossils, from Clinton, N. C.
- PROF. R. P. WHITFIELD, New York City.  
10 Corals and 3 molluscs, Miocene fossils from Ballast Point, near  
Tampa, Florida.
- REV. H. W. WINKLEY, Branford, Conn.  
133 Specimens of fossils from several localities.
- J. A. MANLEY, New Brunswick, N. J.  
4 Specimens of banded Trap.
- PROF. W. P. BLAKE, Tucson, Arizona.  
1 Specimen of Diatomite.

### BY EXCHANGE.

- 2 Stalactites from a cave near Walsingham, Bermuda.  
15 Coal plants from Rhode Island.  
5 *Anthracomya* from Nova Scotia.

### BY PURCHASE.

- 16 Fossil sponges from Nöttlingen, Germany.  
63 " " from the Misburg Clays.  
14 " " skeletonized, in vials, from Misburg.  
58 " " skeletonized, in vials, from Oberg.  
13 " " from various localities.  
1 *Lithostroton Canadense*.  
1 Slab *Favosites intertextus*.  
170 Specimens of fossils.

## THROUGH MUSEUM EXPEDITIONS.

- 2 *Baculites anceps*.  
 2 *Ammonites Woolgari*.  
 1 *Inoceramus problematicus*.  
 1 *Inoceramus fragilis*.  
 2 *Scaphites Warrenanus*.  
 5 *Ostrea Engelmani*.  
 6 *Camptonectes bellistriatus*.  
 1 *Camptonectes pertenuistriatus*.

About 600 specimens of lava, tuff, dust, "bombs" and ejected blocks from Martinique, St. Vincent, St. Thomas, Saba, Statia, St. Kitts, Nevis, Guadeloupe, Dominica and St. Lucia of the West Indies. Collected by E. O. Hovey.

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

## MAMMALS.

## BY DONATION.

- DR. ADLER, New York City.  
 1 Mexican Deer.
- CHARLES E. AIKEN, Colorado Springs, Col.  
 1 Prairie Dog.
- C. E. AKELEY, Chicago, Ill.  
 1 Virginia Deer, mounted.
- H. P. ATTWATER, Houston, Texas.  
 1 Skunk, 3 skulls of Field Mice.
- E. H. AUSTIN, Gaylordsville, Conn.  
 1 Skunk (albino.)
- ARTHUR R. BAKER, New York City.  
 1 Ceylon Rat.
- BARNUM & BAILEY CO., Bridgeport, Conn.  
 1 Giraffe, 1 Oryx.
- WILLIAM BEUTENMÜLLER, New York City.  
 1 Weasel, from North Carolina.
- PROF. H. C. BUMPUS, New Rochelle, N. Y.  
 3 Field Mice, 3 Chipmunks.
- C. W. CAMERON, New York City.  
 1 Collie Dog.
- A. CARLSON, New York City.  
 Skin of Malay Bear.
- DR. DELFIN, Santiago, Chili.  
 1 Skin and 2 skulls of Andean Deer.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
 1 Baboon, 16 Monkeys, 7 Marmosets, 1 Lori, 1 Tiger, 1 Lion, 2 Polar Bears, 1 Black Bear, 1 Red Fox, 1 Raccoon, 1 West Indian Seal, 1 Harbor Seal, 1 Camel, 2 Aoudads, 2 Indian Antelope, 1 Sheep, 1 Collared Peccary, 2 Elks, 3 Red Deer, 1 Axis Deer, 1 Virginia Deer, 1 Paca, 1 Hedgehog, 2 Three-toed Sloths.—Total, 52 specimens, received in the flesh from the Central Park Menagerie and the New York Aquarium.

- GEN. J. WATTS DE PEYSTER, Tivoli, N. Y.  
3 Wolverenes, mounted.
- MRS. NICHOLAS FISIL, New York City.  
1 Mounted Moose head, reputed to be the last Moose killed in the Adirondacks.
- MADISON GRANT and C. A. MOORE, New York City.  
4 Mountain Caribou, 2 Mountain Goats, series of Mountain Goat horns, 1 Deer, 2 Marmots, 3 Spermophiles, 2 Picas, 2 Voles, and 2 Weasels, from the Selkirk Range, near Golden, B. C.
- HENRY HALES, Ridgewood, N. J.  
1 Opossum with litter of young.
- MISS BEULAH HARTFORD, New York City.  
1 Chipmunk.
- DR. ULYSSES KAHN, New York City.  
1 Guereza Monkey, mounted.
- F. R. KALDENBERG, New York City.  
2 Sections of Elephant tusks.
- WILLIAM KING, New York City.  
1 Porpoise.
- W. DE WITT MILLER, Plainfield, N. J.  
2 Raccoons, 1 Red Squirrel, and 10 Meadow Mice.
- PROF. F. W. PUTNAM, Cambridge, Mass.  
Skull of Peccary, from New Mexico.
- C. A. MOORE, New York City.  
See above under Madison Grant.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
1 Mandrill, 40 Monkeys (various species), 2 Marmosets, 1 Leopard, 1 Lioness, 2 Ichneumons, 1 Civet Cat, 1 Sea Lion, 1 Harbor Seal, 3 Punjab Sheep, 2 Goats, 2 Ibexes, 1 Aoudad, 1 Crested Antelope, 2 Pronghorns, 1 Musk Deer, 1 Mule Deer, 1 Japanese Deer, 4 Virginia Deer, 1 Japanese Boar, 1 Woodchuck, 1 Beaver, 1 Spotted Cavy, 2 Opossums.—Total, 79 specimens, received in the flesh.
- ROBERT SEAMAN, New York City.  
1 Japanese Dog.
- RALPH SHAINWALD, New York City.  
1 Eskimo Dog.
- HARLAN I. SMITH, New York City.  
2 Lynxes (skins), 1 Wolf skull, 1 Muskrat skull.
- JAMES TETT, Spences Bridge, B. C.  
1 Hoary Marmot.
- J. C. THOMPSON, M.D., U. S. N.  
1 Red Bat.
- J. B. TYRRELL, Dawson, B. C.  
4 Fannin Sheep.
- WILLIAM F. WHITEHOUSE, Philadelphia, Pa.  
1 Duiker Antelope, 2 Hyenas, 2 Colobus Monkeys, 1 Swayne's Hartebeeste, 1 Waterbuck (on loan).

BY EXCHANGE.

14 Specimens, South American.

BY PURCHASE.

108 Specimens, from Arctic America; 120 from Venezuela.

THROUGH MUSEUM EXPEDITIONS.

ANDREW J. STONE EXPEDITION.

850 Small mammals and 30 large mammals, collected partly on the Alaska Peninsula and partly on the Kenai Peninsula, Alaska. The large mammals include 12 Bears, 6 Moose, and 16 White Sheep, these specimens affording material for a fine group of each of these species.

MEXICAN EXPEDITION.

700 Specimens, mostly from the State of Durango, Mexico. Collected by J. H. Batty. They include large series of Deer and Coyotes, and of all the small mammals of the region.

BIRDS.

BY DONATION.

MRS. E. A. ARMAND, New York City.

1 Rail's nest and 3 eggs.

N. BARTELL, New York City.

1 Cassowary.

WILLIAM BEUTENMÜLLER, New York City.

1 Nest and eggs of Carolina Junco, 1 Brown Creeper.

MRS. MINNIE S. BROWN, New York City.

1 Parrot.

PROF. H. C. BUMPUS, New Rochelle, N. Y.

1 Saw-whet Owl, 1 Robin.

S. H. CHUBB, New York City.

1 Chimney Swift.

MRS. T. E. CLAYTON, Cazewood, N. J.

4 Nests.

W. A. CONKLIN, New York City.

1 Green Fruit Pigeon.

N. CUTHBERTSON, Garden City, N. Y.

1 Starling.

DEPARTMENT OF PUBLIC PARKS, New York City.

6 Golden Eagles, 3 Bald Eagles, 1 Red-tailed Hawk, 1 Red-shouldered Hawk, 2 Great Horned Owls, 1 Condor, 1 Sulphur Cockatoo, 4 Parrots, 6 Pheasants (various species), 1 Peacock, 6 White Swans, 3 Black-necked Swans, 2 Black Swans, 1 Brant, 1 Cassowary.— Total, 39 specimens, received in the flesh from the Central Park Menagerie.

THOMAS DONAHUE, New York City.

1 Night Heron.

BASIL H. DUTCHER, M. D., U. S. A.

6 Small birds from Arizona.

WILLIAM DUTCHER, New York City.

1 Heath Hen, from Martha's Vineyard, 18 Weaver birds (various species), 8 Finches (various species), 1 East Indian Jay, 2 Fly-catchers, 4 Parrots.

- J. S. ENNIS, M. D., New York City.  
5 Small birds.
- W. C. FOCKELMAN, New York City.  
1 Bearded Titmouse, 1 Japanese Finch.
- H. J. LANGHAM, New York City.  
1 Chimney Swift.
- WARREN LEGGETT, New York City.  
4 Eggs.
- MAJOR C. W. MASON, U. S. A.  
1 Kingfisher.
- ALFRED M. MOSELY, London, England.  
Nests and eggs of British birds.
- MISS MURRAY, New York City.  
1 Finch.
- J. OLMSTEAD, New York City.  
1 English Sparrow.
- MRS. F. SCHEEL, New York City.  
1 Zebra Finch.
- ERNEST THOMPSON SETON, Cos Cob, Conn.  
8 Canvasback Ducks, 3 Lesser Scaup Ducks, 3 Shoveller Ducks,  
1 Tree Duck.
- DAVID TOMLINSON, New York City.  
1 Red-tailed Hawk, 1 Starling.
- C. W. WEBB, New York City.  
1 Albatross.
- WILLIAM F. WHITEHOUSE, Philadelphia, Pa.  
1 Crowned Crane.
- R. S. WILLIAMS, Great Falls, Mont.  
46 Small birds from Bolivia.

## BY PURCHASE.

550 Specimens, from Merida, Venezuela.  
Also the Sennett Collection, numbering nearly 8,000 skins and a very large and valuable collection of nests and eggs.

## THROUGH MUSEUM EXPEDITIONS.

- ANDREW J. STONE EXPEDITION.  
316 Skins and 35 sets of eggs, from the Alaska Peninsula and the Kenai Peninsula, Alaska.
- MEXICAN EXPEDITION.  
890 Skins, and a small collection of nests and eggs, from north-western Durango, Mexico. Collected by J. H. Batty.
- CALIFORNIA EXPEDITION (Cadwalader Fund).  
325 Birds, a number of nests and eggs, and accessories for a series of large groups.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.

MINERALOGY.

BY DONATION.

- EDWARD D. ADAMS, New York City.  
1 Specimen of Radium.  
1 " " Uraninite from Bohemia.
- J. H. ADAMS, New York City.  
21 Specimens of Tourmaline, in rock, from Chester, Mass.
- AMERICAN GEM CO., through L. M. ZELL, New York City.  
1 Specimen of Quartz, large crystallization, and Hiddenite, from North Carolina.
- MRS. A. F. BANDELIER, New York City.  
1 Specimen of Copper, pseudomorph after Aragonite, from Corocoro, Bolivia.
- J. H. BATTY, New York City.  
15 Specimens of ores from Mexico.
- CLARENCE S. BEMENT, Philadelphia, Pa.  
1 Specimen of Datolite from Andreasberg, Hartz.
- BARNUM BROWN, New York City.  
1 Specimen of Fossil resin (Cretaceous) from Miles City, Montana.  
1 " " Sphalerite from Willcockson, Ark.
- Miss MATILDA W. BRUCE, New York City.  
4 Specimens of Pyromorphite from Ems, Nassau, Germany.  
1 " " Limonite from Mammoth, Utah.  
1 " " Calcite from Joplin, Missouri.  
1 " " Calamine from Elkhorn, Montana.  
2 " " Smithsonite from Laurium, Greece.  
1 " " Herregrundite from Herregrund, Hungary.  
1 " " Roseite from West Nottingham, Pa.  
1 " " Natrolite from Susquehanna Tunnel, N. J.  
6 " " Calcite from Cumberland, England.  
1 " " Water-bottle from Uruguay.
- WM. H. CRANE, New York City.  
4 Specimens of native Bismuth from Pala, San Diego Co., Cal.
- GEORGE A. GLAENZER, New York City.  
1 Specimen of Azurite in feldspathic rock from France.
- G. ROSS DEFENDORF, New York City.  
Miscellaneous lot of Calcite, Pyrite, Gypsum, Quartz and Magnetite.
- DAVID L. GLÜCK, New York City.  
1 Specimen of Garnet from Salida, Col.
- ALEŠ HRDLIČKA, New York City.  
1 Specimen of amygdaloidal Trap from northern Jalisco, Mexico.
- A. C. JOHNSON, New York City.  
7 Specimens of Graphite from seven localities in North America.
- A. B. KEELER, Seattle, Washington.  
3 Specimens of minerals from Washington and British Columbia.

- THE KENTUCKY DIAMOND MINING AND DEVELOPING CO.,  
Minneapolis, Minn.  
Specimens of Garnet, Ilmenite, Peridotite, Surface Ash and Hydro-  
carbon from Kentucky.
- WILLIAM B. MCKINLEY, New York City.  
2 Specimens of Copper from Osceola Mine, Mich.
- J. A. MANLEY, New Brunswick, N. J.  
1 Specimen of Pyrite from South River, N. J.
- C. B. RIGGS, New York City.  
22 Specimens from the Rapid Transit Subway.
- E. SCHERNIKOW, New York City.  
44 Specimens of minerals from Manhattan Island and vicinity.
- DR. JOSEPH SIMMS, New York City.  
3 Mineral specimens from Tasmania, Arizona and Mexico.
- HARLAN I. SMITH, New York City.  
3 Specimens of petrified Wood from Columbia River.
- JOSEPH F. TALSON, through DR. GEO. N. TALSON, Glen Ridge, N. J.  
611 Specimens of minerals from the Weehawken Tunnel, N. J.
- CLARENCE H. TELLER, New York City.  
1 Specimen of Onyx.
- MRS. FREDERICK F. THOMPSON, New York City.  
6 Specimens of Quartz with Chalcopyrite and Sphalerite, from Ellen-  
ville, N. Y.
- H. J. THOMPSON, San Francisco, Cal.  
Annabergite, in gangue, from Churchill Co., Cottonwood Cañon,  
Nevada.
- F. A. THUM, M. E., Mich.  
1 Specimen of Domeykite from Mohawk Mine, Michigan.  
1 " " Whitneyite " " " " " "
- F. WATTS, New York City.  
3 Specimens of Dolomite from West 215th St., New York.

## BY EXCHANGE.

- 1 Specimen of Dolomite with Chalcopyrite, from Joplin, Mo.  
1 " " Marcasite from Joplin, Mo.  
1 " " Septaria from England.  
1 " " Pyrite on Slate from Lehesten, Germany.  
1 " " Hornblende Gneiss with Epidote, from the Rapid  
Transit Subway, New York City.  
Specimens of Wulfenite from District of Arizpe Lenora, Mexico.  
Sartorite, Humite, Rathite, Selegmannite and Baum-  
hauerite from Binnenthal, Switzerland.  
1 Specimen of Zeophyllite from Grau-Prinen, "  
2 " " Apophyllite from West Paterson, N. J.  
1 " " Pectolite from Snake Hill, N. J.  
1 " " Heulandite with Stilbite from Little Falls, N. J.  
1 " " Paramelaconite from Bisbee, Arizona.  
4 " " chalcidized Turritellas from Japan.  
1 " " Beryl from Orisavi, Finland.  
1 " " Hell-fire Rock from Utah.



## BY PURCHASE.

- 1 Large Quartz crystal from California.  
 10 Twinned Calcite crystals from Joplin, Mo.  
 1 Specimen of Arsenic (native) from Alden Island, British Columbia.  
 1 " " Carnotite from Dolores Co., Colorado.  
 1 " " Fayalite from Rockport, Mass.  
 1 " " Cyanite from St. Gothard, Switzerland.  
 1 " " Babingtonite from Barend, Italy.  
 1 " " Granuline from Mt. Vesuvius, Italy.

## CONCHOLOGY.

## BY DONATION.

- J. H. BATTY, New York City.  
 5 Specimens of *H. (Lysinæ) humboldtiana*, Val., Durango, Mexico.  
 WILLIAM BEUTENMÜLLER, New York City.  
 114 Specimens of land shells from the Great Smoky Mts. N. C.  
 BARNUM BROWN, New York City.  
 309 Specimens, representing 21 species of the following genera:  
*Chiton, Patella, Fissurella, Nacella, Trophon, Maetra, Monoceras, Petricola, Saxicava, Photinula, Modiolarca* and *Natica*,  
 from Patagonia, S. A.  
 F. H. CHURCH.  
 8 Specimens of *Tapes variegata*, from Corea.  
 T. S. CLARKE, Palm Beach, Florida.  
 1 Specimen of *Voluta spirata*, Phil., from Palm Beach, Florida.  
 F. A. CONSTABLE, New York City.  
 464 Specimens, including the following genera: *Ampullaria, Unio, Batissa, Melania, Hemiplecta, Cryptosoma, Xestina, Amphidromus, Camænella, Xesta, Camæna, Macrochlamys, Clausilia, Garnieria, Streptaxis, Hybocystis, Platyrhaphe, Opisthophorus, Pseudotrochatella, Coptochilus, Cyclophorus, Pupina, Alycaeus, Procyclus, Pterocyclus, Platopylis, Eulota, Buliminus, Prosopeas, Plectotropis, Scabrina, Leptopoma, Helicina* and *Pseudodon* from Cochin China.  
 L. P. GRATACAP, Staten Island, N. Y.  
 1,400 Specimens of marine gasteropods from Vineyard Sound, Mass.  
 REV. R. B. POST, New York City.  
 7 Lamellibranchs from New York and Maine.  
 BRYANT WALKER, Detroit, Mich.  
 3 Specimens of *Planorbis companulatus*, Say, Mich.  
 4 " " *Ancylus kirklandi*, Walker, Mich.  
 DR. WILLIAM MORTON WHEELER, New York City.  
 3 Specimens of *Ashmunella cooperi*, from Pecos, New Mexico.

## BY EXCHANGE.

- MRS. IDA S. OLDROYD, Burnett, California.  
 1,068 Specimens, including 151 species of marine lamellibranchs and gasteropods from California.  
 SLOMAN ROUS, Brooklyn, N. Y.  
 10 Specimens of marine shells from South Africa.  
 WILLIAM WEEKS, Brooklyn, N. Y.  
 38 Specimens of *Marginella apicina*, Nassau.

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

### BY DONATION.

- J. PIERPONT MORGAN, Skull of White Rhinoceros.  
DR. ROBT. TELLER, Arkansas City, Ark. (through Prof. F. W. Putnam).  
Teeth of extinct Sabre-tooth Tiger, Peccary and Bear, from a cave deposit in Arkansas, discovered by W. Conard.

### BY EXCHANGE.

- PEABODY MUSEUM, YALE UNIVERSITY, New Haven, Conn.  
Casts of skull and jaws of *Brontotherium*, *Dinoceras* and *Tinoceras*, and of *Anchiosaurus* skeleton.  
BERLIN MUSEUM, Berlin, Germany.  
6 Casts of skulls and 4 other casts of specimens of fossil amphibians.  
MUSEO NACIONAL, Buenos Aires.  
25 Casts of *Pyrotherium* and other rare Eocene fossil mammals of Patagonia.  
UNITED STATES NATIONAL MUSEUM, Washington, D. C.  
Casts of 3 type specimens of Mastodon teeth.

### BY PURCHASE.

- Skull of Hippopotamus.  
Collection of fossil reptiles and fish from the Cretaceous chalk formation of Kansas.

### THROUGH MUSEUM EXPEDITIONS.

- JURASSIC OF WYOMING.  
124 Specimens of Dinosaurs from Bone Cabin Quarry and vicinity.  
CRETACEOUS OF SOUTH DAKOTA.  
32 Specimens of fossil reptiles and 26 fossil fish from the marine Cretaceous south of Edgemont.  
TERTIARY OF WYOMING.  
426 Specimens of fossil mammals, and 166 specimens of fossil reptiles, from the Eocene of the Bridger Basin.  
TERTIARY OF SOUTH DAKOTA (Whitney Fund).  
167 Specimens of fossil Horses, Camels, etc., from the Upper Miocene of Little White River.  
PLEISTOCENE OF ARKANSAS.  
151 Specimens of fossil mammals from a fissure formation.

## DEPARTMENT OF ARCHÆOLOGY.

### BY DONATION.

- S. L. PARRISH, Southampton, Long Island.  
2 Metal spoons and stone celt from Shinnecock Hills.  
PROF. BASHFORD DEAN, New York City.  
Pottery head from Alabama.  
H. H. BRIX, Saginaw, Mich.  
Pottery fragments from Point Lookout, Michigan; potsherds, fish-bones and two shell implements from Cocconut Grove, Florida.

- M. RAYMOND HARRINGTON, New York City.  
Specimens of shell and pottery from Oyster Bay, Long Island.
- GLADSTONE FLAHERTY, New York City.  
Stone celt from Watchogue, Staten Island.
- DUKE OF LOUBAT, Paris, France.  
Papier-maché mould representing the water divinities Tlaloc and Coatlicue, from a sculptured rock near Teayo, Mexico.
- THOMAS SHIELDS CLARKE, New York City.  
Potsherds, and rock from a mound on New River, Florida.
- C. C. VAN LOON, New York City.  
Chipped drill found at Athens, New York.
- OWEN W. MILLS, Milbury, Mass.  
Photographs of specimens found in that locality.
- JAMES JOHNSON, New Westminster, B. C.  
Lantern Slide of the Lower Fraser.
- L. S. QUACKENBUSH, New York City.  
Thin stone hand-mill, grinder and chipped points from Bridger Bad Lands, Wyoming.
- PROF. HENRY F. OSBORN, New York City.  
Heavy stone hand-mill from Bridger Bad Lands, Wyoming.
- A. H. THOMPSON, Topeka, Kansas.  
Potsherds and obsidian fragments from Ruins of Tula, Mexico.
- LEWIS W. NIENDORF, New York City.  
Head of a terra-cotta figure from El Pital, State of Vera Cruz, Mexico.
- DE COST SMITH, New York City.  
Large chipped scraper from above timber line, Birch Creek, Idaho.
- GEORGE A. GLAENZER, New York City.  
3 small pottery vessels and 1 stone idol from Costa Rica.
- WILLIAM JONES, New York City.  
Fragments of pottery, paint, and chipped forms.
- A. C. FARRELL.  
Shell rings from near Dunseith, North Dakota.
- TEOBERTO MALER, Merida, Yucatan.  
Stone mask from the Ruins of Tincontlan, Mexico.
- PEABODY MUSEUM, Cambridge, Mass.  
Use of original mould of Serpent Mound for making cast.
- Miss CELIA J. RILEY, New Gretna, N. J.  
2 Specimens from Colombia, S. A.

## BY EXCHANGE.

- C. A. GEER, Worcester, Mass.  
Collection of archæological specimens.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.  
Cast of a stone seat from Ecuador.
- DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.  
2 Grooved axes.

## BY PURCHASE.

- Perforated skull from Michigan.  
Archæological specimens from Ecuador.

## THROUGH MUSEUM EXPEDITIONS.

- EXPLORATIONS IN NEW YORK STATE.  
A large number of specimens from the Shinnecock Hills. Collected by M. R. Harrington.
- EXPLORATION IN THE STATE OF WASHINGTON.  
Collection of archaeological specimens of stone and shell ornaments and implements. Made by Harlan I. Smith.
- EXPLORATIONS IN MEXICO.  
Ethnological and archaeological specimens from the State of Oaxaca. Collected by M. H. Saville.
- HYDE EXPEDITION. Provided for by B. T. B. Hyde and F. E. Hyde, Jr.  
Collection of folk-pottery and archaeological specimens from ancient and modern pueblos in Arizona and New Mexico. Made by George H. Pepper.

## DEPARTMENT OF ETHNOLOGY.

## BY DONATION.

- DUKE OF LOUBAT, Paris, France.  
Cast of Haida slate carving, representing the "Bear-Mother."
- COMMANDER R. E. PEARY, U. S. N.  
Eskimo skull from Smith Sound.
- F. H. CHURCH, Port Chester, N. Y.  
Series of Korean coins.
- WILLIAM C. CURTIS, Norwalk, Conn.  
Photograph of Seaticook baskets.
- GUSTAV RAMSPERGER, New York City.  
1 Feather robe.
- HENRY V. HORGAN, New York City.  
Skull from Inwood, N. Y.
- LIEUT. G. T. EMMONS, U. S. N., Princeton, N. J.  
1 Shot mould from Tlingit, Alaska.
- J. K. FINCH, New York City.  
Skull from Inwood, N. Y.
- DR. JOSEPH SIMMS, New York City.  
Bow, arrows, beads and kettle from Memaloose Island, Columbia River.
- MISS CORA BREMER, Florenville, La.  
Mortar and pestle from Choctaw Indians.
- ESTATE OF MRS. THOMAS C. DOREMUS, New York City.  
2 Chinese screens.
- LYTTLETON FOX, New York City.  
Kacinas from Hopi Indians, and moccasins from Sioux Indians.
- L. T. KATO, New York City.  
Japanese straw horseshoes.
- PROF. BASHFORD DEAN, New York City.  
Collection of Iapp material.
- MISS CELIA J. RILEY, New Gretna, N. J.  
Specimens from Colombia, S. A.
- PROF. FRANCIS E. LLOYD, New York City.  
Carib baskets and basketry material from Dominica and St. Vincent.

BY EXCHANGE.

NATIONAL MUSEUM OF VICTORIA, Melbourne, Australia.  
Ethnological specimens from the interior of Australia.

BY PURCHASE.

4 Alaskan baskets.  
Chilkat blanket pattern-board.  
Iroquois mask and turtle rattle.  
Specimens from the Choctaws of Louisiana.  
Collection from Mexico.  
Specimens from New Mexico and California.

THROUGH MUSEUM EXPEDITIONS.

A series of specimens from Baffin Land. Collected by Capt. James S. Mutch.  
Ethnological specimens from British Columbia. Collected by George Hunt.  
Ethnological collection from Thompson River region. Collected by James Teit.  
Specimens from the Lower Yukon. Collected by Rev. J. W. Chapman.

EAST ASIATIC EXPEDITION. Provided by Jacob H. Schiff.

Large collection of ethnological specimens, including antique bronzes, kites, household utensils and ornaments, embroideries on silk, cloisonné work, masks, costumes, etc., from China. Collected by Dr. Berthold Laufer.

NORTH AMERICAN INDIAN RESEARCH.

HUNTINGTON EXPEDITION.

Collection of ethnological specimens from the Shasta, Pit River and Maidu tribes of California. Made by Dr. Roland B. Dixon and Howard B. Wilson.

MUSEUM EXPEDITION.

Collection of ethnological specimens from the Ojibwa, Menominee, and Sauk and Fox Indians. Made by William Jones.  
Collection of ethnological specimens from the Gros Ventres, Blackfeet and Assiniboine Indians. Collected by Dr. Clark Wissler.

DEPARTMENT OF ENTOMOLOGY.

BY DONATION.

SAMUEL V. HOFFMAN, New York City.  
300 Butterflies from Africa.

DR. WILLIAM MORTON WHEELER, New York City.  
Collection of North American Diptera, consisting of about 9,000 specimens and including many types.  
Insects from Colorado and Texas.  
Larvæ of *Passalus cornutus*.

MRS. MARGARET D. BASSETT, Waterbury, Connecticut.  
A collection of Gall-insects, containing several thousand specimens and many types.

- CHARLES DURY, Cincinnati, Ohio.  
A number of Beetles from Ohio.
- H. H. NEWCOMB, Boston, Mass.  
4 *Chionobas katahdin*, from Mt. Katahdin, Maine.
- OTTO NEUMANN, Brazil.  
Fruit of a Leguminosa infested with a weevil, from Brazil.
- A. KWIAT, Chicago, Ill.  
4 *Catocala* from Chicago, Illinois.
- WILLIAM T. DAVIS, Staten Island, N. Y.  
1 Specimen of Gall (*Dryophanta polita*) on Post Oak.
- CHARLES HUMPHREYS, New York City.  
Butterflies from the Celebes.
- J. R. DE LA TORRE BUENO, New York City.  
28 Beetles from New York.
- WILBUR A. FORSHEIM, New York City.  
1 Centipede, 1 Scorpion and 2 Spiders from California.
- B. TALBOT B. HYDE, New York City.  
A few Insects from Arabia.  
Insects from New Mexico, collected by G. H. Pepper.
- H. F. WICKHAM, Iowa City, Iowa.  
4 *Cychnus relictus*, 1 *Lachnosterna epigæa*, 4 *Elcodes longipilosa*, 4 *Cicindela echo* and 1 *Desmocerus wickhami*.
- OTTO SEIFERT, New York City.  
5 *Arctia phalerata*.  
2 *Sabulodes arcasaria*.
- ERNEST THOMPSON SETON, New York City.  
2 *Dytiscus harrisii*, 1 *Dytiscus sp. ?* and 3 *Belostoma americana*, from Winnipeg, Canada.
- CAPT. WIRT ROBINSON, West Point, N. Y.  
Beetles from Jamaica, B. W. I.
- R. S. WILLIAMS.  
Butterflies from Bogota, Colombia.
- MISS NORTON, New York City.  
Specimens of Insects from South America.
- REV. F. PETER FISCHER, Belmont, N. C.  
2 *Dynastes tityus* from North Carolina.
- DR. CHARLES COLARDEAU, Guadeloupe, F. W. I. (Through Dr. Hovey).  
2 *Dynastes hercules*.
- SAMUEL HENSHAW, Cambridge, Mass.  
2 *Carabus nemoralis* from Massachusetts.  
Eggs of Gipsy Moth " " "
- EDWIN C. VAN DYKE, San Francisco, Cal.  
Beetles from California.
- CHARLES W. LENG, Staten Island, N. Y.  
Specimens of *Cicindela hirtilabris*, *C. scabrosa* and *C. abdominalis*, from Florida.
- A. F. BANDELIER, New York City.  
Beetles from Sicasica, Bolivia.
- J. H. COMSTOCK, Ithaca, N. Y.  
Specimens of *Blepharocera capitata*.

HENRY SKINNER, Philadelphia, Pa.

- 1 *Psychophora fasciata* from Alaska.
- 1 *Tyndaris prosopis*.
- 4 *Tegrodera aloga* (cotypes).
- 1 *Chrysothris edwardsii*.
- 4 *Trichodes illustris*.

WILLIAM BEUTENMÜLLER, New York City.

- Collection of Insects from the mountains in North Carolina.
- 1 Katydid (*Cryptophyllus floridensis*) from Florida.

BY PURCHASE.

- 225 Inflated Larvæ of Lepidoptera.
- 300 Cocoons, Pupæ and Eggs of Lepidoptera.
- 9 *Pamphila carolina*.
- Collection of exotic Beetles.
- Collection of Beetles from British Columbia, Canada.
- About 5,000 Insects from Merida, Venezuela.

THROUGH MUSEUM EXPEDITIONS.

- About 7,000 specimens from the Black Mountains, N. C. Collected by William Beutenmüller.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

INVERTEBRATES.

BY DONATION.

JOHN HISCOX, New York City.

- 1 Rock Crab.

REV. M. B. CARLETON.

- Several Invertebrates.

J. A. R. DUNTZL, New York City.

- 1 Centipede.

I. B. SNIFFEN, New York City.

- Mollusk eggs.

O. SCHAERGES, New York City.

- 1 Annelid.

PROF. R. P. WHITFIELD, New York City.

- 5 Corals.

DR. E. O. HOVEY, New York City.

- 1 Land Crab.

DR. WILLIAM MORTON WHEELER, New York City.

- Collection of Invertebrates.

DR. JOSEPH SIMMS, New York City.

- 1 Scorpion.

J. C. THOMPSON, M.D., U. S. N.,

- 2 Crabs, 3 Sea-spiders.

DR. C. B. DAVENPORT, Chicago, Ill.  
1 Crab.

CHESTER ABBOT, New York City.  
Egg-case of Periwinkle.

H. E. CHURCH, New York City.  
5 Sand-dollars.

R. WEBER, New York City.  
Several Myriopods.

DR. L. O. HOWARD, Washington, D.C.  
Collection illustrating the Boll-weevil.

MISS AUGUSTA RUCKER, Austin, Texas.  
3 Solpugids, specimens of *Kanenia florenciæ*.

BY EXCHANGE.

4 Crayfishes.

BY PURCHASE.

Collection of Mosquitoes—eggs, larvæ, pupæ and adults.  
6 Actinians.  
Collection of Land Snail (*Helix alternata*), 406 specimens.  
9 Insects.  
7 Sets of Metamorphosis.  
6 Specimens of Lingula.  
1 Set models of Crepidula eggs.  
11 Sets of Ziegler models.  
Collection of Brazilian Ants.  
Collection of Ants from Jalisco, Mexico.  
Collection of Protozoa.

THROUGH MUSEUM EXPEDITIONS.

Invertebrates from Woods Hole, Mass. Collected by G. H. Sherwood.

REPTILES AND BATRACHIANS.

BY DONATION.

NEW YORK ZOÖLOGICAL SOCIETY.

Through New York Aquarium:

2 Salamanders, 1 Snapping Turtle, 1 Soft-shelled Turtle, 4 Turtles,  
2 young Alligators.

Through Zoölogical Garden:

3 Iguanas, 1 Cuban Iguana, 3 Snapping Turtles, 1 Soft-shelled  
Turtle, 3 Turtles, 2 Water-moccasins, 3 Pine Snakes, 1 Ana-  
conda, 1 Bushmaster, 1 Gopher Snake, 1 Chicken Snake, 11  
Rattlesnakes, 1 Turtle.



- REV. M. B. CARLETON.  
Several Snakes.
- WILBUR A. FORSHEIM, New York City.  
1 Lizard.
- A. V. B. HAWLEY, Salem Centre, N. Y.  
1 Copperhead.
- J. D. FIGGINS, New York City.  
1 Lizard.
- MASTER W. B. MOORE, New York City.  
2 Horned Toads.
- F. A. SCHNEIDER, New York City.  
1 Frog Skeleton.
- J. SANFORD DAVIS, Othello, N. J.  
2 Snapping Turtles, 5 Musk Turtles.
- Mrs. J. H. LEVERICK, New York City.  
1 Crocodile Skull.
- DEPARTMENT OF PARKS, New York City.  
1 Boa, 1 Snake.
- G. ADOLPH HINE, New York City.  
3 Snakes.
- Miss CHARLOTTE SIMM, Tarrytown-on-Hudson, N. Y.  
1 Rattlesnake skin.

## BY EXCHANGE.

4 Salamanders.

## BY PURCHASE.

12 Snakes.  
3 Models of Sphenodon skull.  
3 Long-necked Turtles.  
24 Salamanders (*Necturus*).

## THROUGH MUSEUM EXPEDITIONS.

Several Reptiles and Batrachians. Collected by J. H. Batty in Mexico.

## FISHES.

## BY DONATION.

- NEW YORK ZOÖLOGICAL SOCIETY, through New York Aquarium:  
1 Rainbow Trout, 2 Muskalonge, 2 Sharks, 1 Amberfish, 1 Smooth Puffer, 1 Drumfish, 1 Grouper, 1 Tautog.
- JOHN HISCOX, New York City.  
2 Garpikes, 1 Snapper, 1 Smooth Puffer, 1 Fish.
- H. R. BISHOP, New York City.  
2 Tarpon (mounted).
- H. PERCY ASHLEY, New York City.  
Tarpon fishing gear.
- WILLIAM KING, JR., New York City.  
2 Garpikes.

J. C. CASE, Peconic, N. Y.  
3 Pilotfish.

DR. JOSEPH SIMMS, New York City.  
Sword of Swordfish.

J. C. THOMPSON, M.D., U.S.N.  
13 Fishes.

BUREAU OF FISHERIES, through HON. GEORGE M. BOWERS, Wash-  
ington, D. C.  
200 Hawaiian Fishes.

BY EXCHANGE.

13 Fishes.

BY PURCHASE.

12 Mounted Fish Skins.  
2 Chimeras.  
1 Shark.

MISCELLANEOUS.

BY DONATION.

MRS. M. T. BROCKWAY, New York City.  
1 Human Skull (disarticulated).

GEN. J. WATTS DE PEYSTER, New York City.  
Cap made from moose lip.

J. H. ROGERS, Townsville, Queensland.  
Deformed hoof of cow.

BY PURCHASE.

1 Human Skeleton (disarticulated).

LIBRARY.

	Volumes	Numbers	Pamphlets	Charts	Plates
By Donation.....	505	1,483	350	.....	7
By Exchange.....	273	1,035	105	.....	..
By Purchase.....	174	931	37	24	24
Totals .....	952	3,449	495	24	31

DEPARTMENT OF MAPS AND CHARTS.

	Atlases	Maps	Charts	Folding Globe
By Donation.....	23	261	.....	1
By Exchange.....	27	275	.....	.....
By Purchase.....	1	1	6	.....
Totals .....	51	537	6	1

# 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 and recreation.

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



CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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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, shall be the Trustees to manage the affairs, property and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee, unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall

issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President and a Treasurer, all to be elected from 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, a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year, or until their successors shall be elected.

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

#### ARTICLE V.

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

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and of 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 directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

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

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

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

#### ARTICLE VI.

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four and five years, respectively, and the terms for which those drawing the two, three, four and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property

of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business

#### ARTICLE VII.

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

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

#### ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name, and to take all proper measures to provide means for its support; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.



ARTICLE X.

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

ARTICLE XI.

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

ARTICLE XII.

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

ARTICLE XIII.

The contribution of \$1,000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

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

ARTICLE XIV.

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

ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

Patrons giving \$1,000, are each entitled to one 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 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and 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 Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

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

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

### IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employe of the Museum,

except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

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.

## VI.

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.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

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

## THE MAINTENANCE APPROPRIATION.

BY THE LEGISLATURE, 1902.

### CHAPTER 246.

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.

#### ACCEPTED BY THE CITY.

Became a law March 26th, 1902, with the approval of the Governor.

Passed, three-fifths being present.

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

SECTION 1. The Board of Estimate and Apportionment of The City of New York may annually in its discretion include in the budget for the then next ensuing financial year a sum not exceeding twenty-five thousand dollars to be applied by the department of parks of said city through the Commissioner of Parks for the Boroughs of Manhattan and Richmond for keeping, preparing, preserving and exhibiting the collections in the buildings in the Central Park in the said city that are now or hereafter may be occupied by the American Museum of Natural History in addition to the sum or sums now authorized by law for such purposes.

SECTION 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.

(Signed) JOHN T. McDONOUGH, *Secretary of State.*

## CONSTRUCTION AND INSTALLATION OF A NEW HEATING AND LIGHTING PLANT.

LEGAL ENACTMENTS OF 1902.

BY THE BOARD OF ALDERMEN.

An Ordinance to provide for an issue of Corporate Stock in the sum of two hundred thousand dollars (\$200,000) the proceeds to be used to provide means for the construction and installation of a new heating and lighting plant for the American Museum of Natural History, in the Borough of Manhattan.

Be it ordained by the Board of Aldermen of the City of New York, as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment June 13, 1902, authorizing 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 amended Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of bonds to an amount not exceeding two hundred thousand dollars (\$200,000), for the purpose of providing means to pay for the construction and installation of a new heating and lighting plant for the American Museum of Natural History in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, as amended by Chapter 563 of the Laws of 1902, to an amount not exceeding two hundred thousand dollars (\$200,000), the proceeds thereof to be applied to the purposes aforesaid."

Adopted by the Board of Aldermen July 22, 1902, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 30, 1902. (Signed) P. J. SCULLY, *Clerk*.

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Contracts awarded to December 31, 1903.

For the Erection and Completion of a New Wing for a New Heating, Power and Electric Light Plant, for the American Museum of Natural History.

Contract awarded Thomas Cockerill & Son, May 18, 1903, \$154,500.

FOR THE COMPLETION OF THE CONSTRUCTION  
OF THE UNFINISHED PORTIONS OF THE  
BUILDING.

LEGAL ENACTMENTS OF 1903.

BY THE BOARD OF ALDERMEN.

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred and eighty-eight thousand dollars (\$188,000), to provide means for the completion of the construction of the unfinished portions of the American Museum of Natural History Building in the Borough of Manhattan.

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

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution, adopted by the Board of Estimate and Apportionment May 3, 1903, and authorizes the Comptroller to issue Corporate Stock of the City of New York to the amount and for the purposes therein specified:

“*Resolved*, That, pursuant to the provisions of Section 47 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred and eighty-eight thousand dollars (\$188,000) to provide means for the completion of the construction of the unfinished portions of the American Museum of Natural History Building in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by Section 169 of the Greater New York Charter, to an amount not exceeding one hundred and eighty-eight thousand dollars (\$188,000), the proceeds whereof shall be applied to the purposes aforesaid.”

Adopted by the Board of Aldermen June 16, 1903, a majority of all the members elected voting in favor thereof.

Approved by the Mayor June 22, 1903. (Signed) P. J. SCULLY, *Clerk*.

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Contracts awarded to December 31, 1903.

For the Completion and Construction of Entrance Hall and Toilets, Changes to Elevator, Steam, Water and Electric Works, New Steam Mains and Construction of Rooms for Teachers for the American Museum of Natural History.

Contract awarded Louis Wechsler, November 18, 1903, \$92,500.





## PATRONS.

MORRIS K. JESUP.  
 ROBERT L. STUART.\*  
 Miss C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.\*  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
 JOSEPH W. DREXEL.\*  
 WILLIAM E. DODGE, 1ST.\*  
 JOHN D. WOLFE.\*  
 ABRAM S. HEWITT.\*  
 C. VANDERBILT.\*  
 J. PIERPONT MORGAN.  
 CHARLES LANIER.  
 D. JACKSON STEWARD.\*  
 EDWARD CLARK.\*  
 A. G. PHELPS DODGE.  
 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHENIX.\*  
 BENJAMIN H. FIELD.\*  
 WILLIAM T. BLODGETT.\*  
 OLIVER HARRIMAN.  
 ROBERT BONNER.\*  
 JAMES B. COLGATE.  
 ALEXANDER STUART.\*  
 WILLIAM A. HAINES.\*  
 BENJAMIN AYMAR.\*  
 RICHARD ARNOLD.\*  
 JOSEPH H. CHOATE.  
 JONATHAN THORNE.\*  
 Miss PHEBE ANNA THORNE.  
 D. O. MILLS.  
 JOHN A. C. GRAY.\*  
 HEBER R. BISHOP.\*  
 CHAS. G. LANDON.\*  
 WILLIAM E. DODGE, 2D.\*  
 PETER COOPER.\*  
 WILLIAM H. ASPINWALL.\*  
 B. H. HUTTON.\*  
 J. TAYLOR JOHNSTON.\*

D. N. BARNEY.\*  
 I. N. PHELPS.\*  
 JAMES STOKES.\*  
 D. WILLIS JAMES.  
 EDWARD MATTHEWS.  
 WILLIAM T. GARNER.\*  
 JAMES LENOX.\*  
 A. H. BARNEY.\*  
 COLEMAN T. ROBINSON.\*  
 BENJAMIN B. SHERMAN.\*  
 JAMES R. ELY.  
 JONAS G. CLARK.\*  
 JOHN ANDERSON.\*  
 JOHN JACOB ASTOR.\*  
 WILLIAM WALDORF ASTOR.  
 CATHERINE L. SPENCER.\*  
 JAS. GORDON BENNETT.  
 CYRUS W. FIELD.\*  
 ALEX. H. BROWN, M. P.  
 J. A. BOSTWICK.\*  
 FREDERICK BILLINGS.\*  
 Mrs. ROBERT L. STUART.\*  
 JESSE SELIGMAN.\*  
 THEO. ROOSEVELT.  
 OSWALD OTTENDORFER.\*  
 J. HAMPDEN ROBB.  
 J. F. LOUBAT.  
 H. J. JEWETT.\*  
 WM. D. SLOANE.  
 D. G. ELLIOT.  
 LIEUT. G. T. EMMONS, U. S. N.  
 C. P. HUNTINGTON.\*  
 GEO. W. VANDERBILT.  
 EDWARD D. ADAMS.  
 WILLIAM C. SCHERMERHORN.\*  
 JOHN J. CROOKE.  
 HENRY SELIGMAN.  
 RICHARD T. WILSON.  
 JOHN E. PARSONS.  
 FRANCIS O. MATTHIESSEN.\*  
 A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
 M. C. D. BORDEN.  
 ARCHIBALD ROGERS.

\* Deceased.

GEORGE C. COOPER.\*  
 MRS. M. SCHUYLER ELLIOT.  
 APPLETON STURGIS.\*  
 THEODORE A. HAVEMEYER.\*  
 WILLIAM C. WHITNEY.\*  
 GEORGE G. HAVEN.  
 JAMES BAKER SMITH.\*  
 CYRUS W. FIELD, JR.\*  
 JAMES ANGUS.\*  
 HENRY VILLARD.\*  
 DR. WM. PEPPER.\*  
 AUSTIN CORBIN.\*  
 ANSON W. HARD.  
 GUSTAV E. KISSEL.  
 ELBRIDGE T. GERRY.  
 DR. EDGAR A. MEARNES, U. S. A.  
 JOHN D. CRIMMINS.  
 MRS. WM. H. OSBORN.\*  
 HENRY FAIRFIELD OSBORN.  
 JONATHAN THORNE.  
 VICTOR CORSE THORNE.  
 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 W. M. DONGAN DE PEYSTER.  
 HICKS ARNOLD.\*  
 J. PIERPONT MORGAN, JR.  
 WM. CHURCH OSBORN.  
 ALEXANDER I. COTHEAL.\*  
 WM. ROCKEFELLER.  
 B. T. BABBITT HYDE.  
 FREDERICK E. HYDE, JR.  
 L. P. DI CESNOIA.  
 GEORGE DEXTER BRADFORD.\*  
 HENRY O. HAVEMEYER.  
 A. D. JUILLIARD.  
 DR. FREDERICK E. HYDE.

MRS. JOHN B. TREVOR.  
 WM. SCHIAUS.  
 JOHN B. MARCOU.  
 PHILLIPE MARCOU.  
 GEORGE T. BLISS.\*  
 GEORGE A. HEARN.  
 MRS. MORRIS K. JESUP.  
 DR. ELIZABETH M. STURGIS.  
 FREDERICK A. CONSTABLE.  
 CHARLES M. JESUP.  
 PERCY R. PYNE.  
 EDWIN H. WEATHERBEE.  
 MISS SUSAN DWIGHT BLISS.  
 GEORGE S. BOWDOIN.  
 JOHN L. CADWALADER.  
 MRS. C. P. HUNTINGTON.  
 ARCHER M. HUNTINGTON.  
 GEORGE FOSTER PEABODY.  
 JOHN D. ROCKEFELLER.  
 JOHN D. ROCKEFELLER, JR.  
 JACOB H. SCHIFF.  
 REV. RODERICK TERRY, D. D.  
 JOHN T. TERRY, JR.  
 MRS. F. F. THOMPSON.  
 ANDREW E. DOUGLASS.\*  
 VERY REV. E. A. HOFFMAN, D. D., LL. D.\*  
 HAROLD GARRISON VILLARD.  
 EDWARD M. SHEPARD.  
 LUDWIG MAX GOLDBERGER.  
 MRS. EUGENE A. HOFFMAN.  
 JAMES H. HYDE.  
 ARTHUR CURTISS JAMES.  
 CLEVELAND H. DODGE.  
 HENRY W. POOR.  
 HENRY CLAY PIERCE.  
 CORNELIUS C. CUYLER.

---

## F E L L O W S .

SAMUEL WILLETS.\*  
 ROBERT GORDON.  
 HOWARD POTTER.\*  
 C. V. S. ROOSEVELT.\*

CHARLES W. GRISWOLD.\*  
 SAMUEL F. B. MORSE.\*  
 RUTHERFORD STUYVESANT.  
 MEREDITH HOWLAND.\*

\* Deceased.

MARSHALL O. ROBERTS.\*  
 JOHN ALSTYNE.\*  
 O. B. POTTER.\*  
 HON. LEVI P. MORTON.  
 HANSON K. CORNING.\*  
 STEWART BROWN.\*  
 ABRAM DUBOIS.\*  
 TIFFANY & CO.  
 LUCIUS TUCKERMAN.  
 ALFRED B. DARLING.\*  
 A. A. LOW.\*  
 RICHARD MORTIMER, JR.  
 THOS. A. VYSE, JR.  
 GEORGE G. GRAY.\*  
 GOUVERNEUR KEMBLE.\*  
 SAMUEL HAWK.\*  
 JOHN SNEDEN.\*  
 GEORGE BLISS.\*  
 R. A. WITTHAUS, M. D.  
 THOMAS BARRON.\*  
 GEORGE W. CASS.\*  
 CHARLES W. CASS.\*  
 H. M. SCHIEFFELIN.\*  
 WILLIAM LIBBEY, JR.  
 ROBERT LENOX KENNEDY.\*  
 F. R. HALSEY.  
 CYRUS W. FIELD, JR.\*  
 H. M. FLAGLER.  
 D. B. IVISON.\*  
 H. MCK. TWOMBLY.  
 HENRY G. MARQUAND.\*  
 JOHN T. TERRY.  
 JOSIAH M. FISKE.\*  
 ELLIOTT F. SHEPARD.\*

JOHN SLOANE.  
 JOHN D. ROCKEFELLER.  
 PHILLIPS PHOENIX.  
 LLOYD PHOENIX.  
 MRS. GEO. W. COLLORD.  
 GEN. EGBERT L. VIELE, U.S.A.\*  
 WM. H. HARBECK.\*  
 DAVID WOLFE BISHOP.  
 CORTLANDT FIELD BISHOP.  
 WHEATON B. KUNHARDT.  
 SAMUEL P. AVERY.  
 JAMES H. JONES.  
 JAMES B. HAGGIN.  
 MRS. RICHARD P. DANA.  
 JAMES THOMSON.\*  
 AYMAR JOHNSON.  
 PHILIP SCHUYLER.  
 FRANCIS CHILD NICHOLAS, PH. D.  
 VERY REV. E. A. HOFFMAN, D. D., LL. D.\*  
 MISS LAURA P. HALSTED.  
 ROBERT S. BREWSTER.  
 JOHN L. CADWALADER.  
 WM. EARL DODGE, 4TH.  
 WM. LANMAN BULL.  
 CHARLES M. JESUP.  
 SAMUEL N. HOYT.  
 CHARLES T. BARNEY.  
 HENRY W. POOR.  
 LEWIS S. THOMPSON.  
 JAMES C. CARTER.  
 H. B. HOLLINS.  
 F. AUGUSTUS SCHERMERHORN.  
 MRS. HARRIET L. SCHUYLER.

## LIFE MEMBERS.

C. R. AGNEW.  
 G. B. AGNEW.  
 JOHN E. ALEXANDRE.  
 RICHARD H. ALLEN.  
 MRS. BLANCHE L. ANDREWS.

CONSTANT A. ANDREWS.  
 B. G. ARNOLD.  
 JOHN JACOB ASTOR.  
 J. T. ATTERBURY.  
 HUGH D. AUCHINCLOSS.

\* Deceased.

SAMUEL P. AVERY.  
 SAMUEL P. AVERY, JR.  
 MRS. JAMES C. AYER.\*  
 MISS E. AYMAR.  
 JAMES A. BAILEY.  
 JAS. MUHLENBERG BAILEY.  
 JOSEPH C. BALDWIN.  
 DAVID BANKS.  
 MISS CORA F. BARNES.  
 JOHN S. BARNES.  
 HENRY I. BARBEY.  
 THOMAS BARING.  
 FORDYCE BARKER, M.D.\*  
 J. O. BARTHOLOMEW.  
 W. II. BEADLESTON.\*  
 GEORGE E. BELCHER, M.D.\*  
 BERTRAND F. BELL.  
 C. M. BELL, M.D.\*  
 DENNISTOUN M. BELL.  
 AUGUST BELMONT.  
 THEODORE BERDELL.\*  
 JOHN E. BERWIND.  
 SAMUEL R. BETTS.  
 FREDERICK BILLINGS.  
 MISS MARY M. BILLINGS.  
 CORNELIUS N. BLISS.  
 MISS CATHERINE A. BLISS.  
 GEORGE BLUMENTHAL.  
 A. K. BOLAN.  
 GEORGE C. BOLDT.  
 MRS. WM. H. BRADFORD, SR.  
 HENRI M. BRAEM.\*  
 BENJAMIN BREWSTER.  
 WILLIAM BREWSTER.  
 CHAS. P. BRITTON.  
 HON.\* ADDISON BROWN.  
 FRANK G. BROWN.\*  
 GEORGE II. BROWN.\*  
 JAMES M. BROWN.\*  
 DAVID L. BRUCE-BROWN.  
 MISS M. W. BRUCE.  
 R. L. BURTON.  
 JOSEPH BUSHNELL.  
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 JOHN L. CADWALADER.

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 Gundlach, C.  
  
 Haber, Louis I.  
 Hague, James D.  
 Haines, Charles D.  
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 Halls, William, Jr.  
 Halsey, Frederick A.  
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 Hamilton, E. Horace  
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 Harkness, Edward S.  
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 Harris, Alfred  
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 Hartshorn, Stewart  
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 Hasslacher, Jacob  
 Hastings, Thos. S.  
 Hatzel, Frederick H.  
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 Havemeyer, J. C.  
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 Hendricks, Edmund  
 Hendricks, Mrs. Joshua  
 Hendricks, Harmon W.  
 Hendricks, Henry H.  
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 Herreshoff, J. B. Francis  
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 Hinchman, Walter  
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 Hinton, J. H., M.D.  
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 Hochschild, Berthold  
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 Hodgman, Geo. F.  
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 Holden, E. R.  
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 Howell, M. D.  
 Howlett, A. Ames  
 Hoyt, Chas. A.  
 Hoyt, Francis S.  
 Hoyt, Gerald L.  
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 Jones, Dwight A.  
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 Olcott, F. P.  
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 Pine, John B.  
 Pinkus, F. S.  
 Platt, Isaac S.  
 Platt, John R.  
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 Porter, William L.  
 Post, Abram S.  
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 Potter, Frederick  
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 Potter, Miss Martha  
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 Powell, Wilson M.  
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 Pyne, M. Taylor

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 Raymond, Charles H.  
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 Reimer, Otto E.  
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 Schefer, Carl  
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 Seligman, Isaac N.  
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 Shardlow, Joseph  
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 Simpson, J. F.  
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In Memoriam

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At the Regular Quarterly Meeting of the Board of Trustees of The American Museum of Natural History, held November 9, 1903, the following Minute was adopted:

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The Trustees of The American Museum of Natural History record with sadness the death of their distinguished and beloved associate,

### **WILLIAM EARL DODGE.**

Mr. Dodge became a member of the Museum in 1870, and was elected to the Board of Trustees in 1872. He was placed on its Executive Committee in 1875; and in 1899 he was elected Second Vice-President, serving in this office until February, 1901, when he became First Vice-President. From the beginning of his connection with the Museum until his decease, August 9, 1903, he was one of its largest contributors, and took a very active interest in every measure to promote the welfare, growth, development and usefulness of the Institution. His love of the beautiful in nature found in the work of the Museum a most congenial occupation.

When the Museum made its early efforts in the cause of research and investigation, Mr. Dodge's contributions and counsel came from a knowledge of what was best and wisest to be accomplished to insure results. He often visited the Museum to ascertain its needs, and was always ready with suggestions and willing to advise and aid its officers and curators, to help make the Museum what, under its Charter, it set out to be, "to encourage and develop the study of natural science, the advancement of a general knowledge of kindred subjects and the furnishing of popular instruction, recreation and amusement."

The Trustees and officers always cherished for Mr. Dodge a real affection and esteem, because of his manly qualities of head and heart. He was a faithful friend, a wise counselor, a safe guide and a Christian gentleman. As such his example is worthy for us to imitate and follow.

This Minute is made at the first meeting of the Board of Trustees since the death of Mr. Dodge, and it is directed that it be entered on the records, and that an engrossed copy of the same be prepared and sent to Mrs. Dodge, with the respectful sympathy of the Trustees, in her loss and sorrow.

At the Annual Meeting of the Trustees of The American Museum of Natural History, held February 8, 1904, the President announced the death of their late associate, Mr. Andrew H. Green.

It was ordered that the following Minute be incorporated on the Records of the Meeting, and that the Secretary present a copy of the resolution to the family of the deceased:

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The Trustees of The American Museum of Natural History, at this their Annual Meeting, desire to give formal expression to their sorrow at the loss of their associate of many years,

### **ANDREW HASWELL GREEN.**

In 1869, Mr. Green, then Comptroller of Central Park, heartily and effectively co-operated with those who proposed to the Commissioners of Parks the formation of a Museum of Natural History.

Elected to the Board of Trustees in 1869, he was regular in his attendance at official meetings, served on the Executive Committee for several years, was a frequent visitor at the Museum, and at the time of his decease was one of the oldest members of the Board.

With a wide circle of acquaintances, occupying a prominent place among the people, of long experience in civic affairs and intimately associated with the organizations and improvements incident to municipal development, his loss is not to the members of this Board alone but to the larger interests of the community in general.

On the occasion of the Annual Meeting of the Board of Trustees of The American Museum of Natural History, held February 8, 1904, the President reported the decease, on the 2d instant, of Mr. William C. Whitney.

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In speaking of Mr. Whitney, the President paid a warm tribute to his friend and colleague. No other Trustee, he said, evinced a deeper interest in the activities of the Museum; he was a frequent visitor to its halls, enthusiastic in his praise of its collections and its work of research in the field, and disclosed an intimate knowledge of the history and aims of the Museum.

The following Minute was unanimously adopted, and the Secretary was directed to enter it in full on the record of the meeting and to present an engrossed copy of the same to the family of the deceased:

The Trustees of The American Museum of Natural History record with great regret the death of their associate,

### **WILLIAM COLLINS WHITNEY.**

The Museum loses one of its warmest and most intelligent friends. Mr. Whitney was a true lover of nature, greatly delighting in scenery, and showing a keenness of interest in animals and an extent of knowledge very unusual in American men of affairs. He took pleasure in supporting the work of the Museum, because it extended to the people of this city opportunities of education and enjoyment otherwise beyond their reach.

Elected in November, 1891, he served for more than twelve years as a Trustee. Up to the time of his death, he generously furthered the progress of the Museum in many diverse lines. In the year 1900, in connection with his personal interest in the breeding of horses, he became specially interested in and maintained on a large scale for the past three years, the special explorations, researches and artistic work connected with the evolution of the horse in America. The undertaking has been successful beyond expectation. In a few weeks more the preliminary results of these expeditions would have been on exhibition, and it is a keen regret to us that Mr. Whitney could not have lived to see their completion. His name will always be associated with the continuation of any investigations of this important subject.

We shall ever cherish the memory of his kindly and generous heart and his many manly and noble qualities.

THE  
AMERICAN MUSEUM OF NATURAL HISTORY.





THE  
AMERICAN MUSEUM OF NATURAL  
HISTORY,

CENTRAL PARK, NEW YORK CITY,  
Seventy-seventh Street and Central Park West.

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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.

FOR THE YEAR 1904.



NEW YORK:  
PRINTED FOR THE MUSEUM.

1905.



IRVING PRESS  
225 FOURTH AVENUE, NEW YORK

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BOARD OF TRUSTEES,

1905.

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MORRIS K. JESUP.

ADRIAN ISELIN.\*

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JOSEPH H. CHOATE.

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JAMES H. HYDE.

ARTHUR CURTISS JAMES.

CLEVELAND H. DODGE.

CORNELIUS C. CUYLER.

\* Deceased.

# OFFICERS AND COMMITTEES

FOR 1905.

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## First Vice-President.

J. PIERPONT MORGAN.

## Second Vice-President.

HENRY FAIRFIELD OSBORN.

## Treasurer.

CHARLES LANIER.

## Director.

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## Secretary and Assistant Treasurer.

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## Executive Committee.

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*The President ex-officio.*

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ARCHIBALD ROGERS.

ARTHUR CURTISS JAMES.

*The President ex-officio.*

# SCIENTIFIC STAFF

FOR 1905.

## *DIRECTOR.*

HERMON C. BUMPUS, Ph.D.

## *DEPARTMENT OF PUBLIC INSTRUCTION.*

Prof. ALBERT S. BICKMORE, Curator Emeritus.

## *DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.*

Prof. R. P. WHITFIELD, Curator.

EDMUND OTIS HOVEY, Ph.D., Associate Curator.

## *DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.*

Prof. J. A. ALLEN, Curator.

FRANK M. CHAPMAN, Associate Curator.

## *DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.*

Prof. HENRY FAIRFIELD OSBORN, Curator.

W. D. MATTHEW, Ph.D., Associate Curator.

O. P. HAY, Ph.D., Associate Curator of Chelonia.

Prof. BASHFORD DEAN, Honorary Curator of Fishes.

## *DEPARTMENT OF ANTHROPOLOGY.*

Prof. FRANZ BOAS, Curator.

Prof. MARSHALL H. SAVILLE, Associate Curator of Archaeology.

HARLAN I. SMITH, Assistant Curator of Ethnology.

CLARK WISSLER, Ph.D., Assistant Curator of Ethnology.

BERTHOLD LAUFER, Ph.D., Assistant in Ethnology.

GEORGE H. PEPPER, Assistant in Anthropology.

## *DEPARTMENT OF ENTOMOLOGY.*

WILLIAM BEUTENMÜLLER, Curator.

## *DEPARTMENT OF MINERALOGY AND CONCHOLOGY.*

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

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

## *DEPARTMENT OF INVERTEBRATE ZOÖLOGY.*

Prof. WILLIAM MORTON WHEELER, Curator.

GEORGE H. SHERWOOD, A.M., Assistant Curator.

Prof. J. E. DUERDEN, Honorary Curator of Cœlenterates.

## *DEPARTMENT OF PHYSIOLOGY.*

Prof. RALPH W. TOWER, Curator.

## *DEPARTMENT OF PREPARATION AND INSTALLATION.*

B. E. DAHLGREN, D.M.D., Curator.

## *DEPARTMENT OF BOOKS AND PUBLICATIONS.*

Prof. RALPH W. TOWER, Curator.

## *DEPARTMENT OF MAPS AND CHARTS.*

A. WOODWARD, Ph.D., Curator.

FORM OF BEQUEST.

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

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## THIRTY-SIXTH ANNUAL REPORT.

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*To the Trustees and Members of the American Museum of Natural History :*

The President submits herewith a report of the affairs of the Museum for the year 1904.

**FINANCES.**—In conformity with the recommendations of the Board of Trustees, the financial transactions of the Museum are divided into three separate accounts, and the details of the receipts, expenditures and investments for the year just closed, as embodied in the Treasurer's Report, will be found on pages 43 to 49 inclusive. These accounts and all books and vouchers have been duly examined and certified to by the Audit Company of New York. A few statements may help in making the details of this report clear.

*Permanent Endowment.*—Attention is directed to the Treasurer's Report of the Endowment and Investment Account, wherein are detailed the gifts made for the Permanent Endowment Fund. This fund now amounts to \$1,013,000, an increase of \$573,000 since the last Report. The John B. Trevor Fund has been increased to \$15,000, through the gift of \$5,000 by Mrs. J. B. Trevor. Miss Matilda W. Bruce gave \$10,000 in bonds, the interest of which is to be used for the purchase of desirable specimens of minerals.

*Special Funds.*—The Andrew J. Stone Expedition Fund and the Eastern Asiatic Research Fund have been closed. The work begun under the latter is continued through contributions by the members of the East Asiatic Committee. Attention is called to the reports (page 43) of the receipts and disbursements of the funds, for which the Assistant Treasurer acts as treasurer.

*City Maintenance Account.*—The amount received from the City for the maintenance of the Museum, \$160,000, was

the same as in 1903 and 1902. This generous sum proved, however, insufficient to meet the running expenses, leaving a deficit of more than \$8,000 to be made up by a friend of the Museum. Naturally, with the steady and rapid growth of the Museum, the running expenses must correspondingly increase, for which provision must be made.

*General Account.*—The total receipts from all sources have been \$78,605.30. The interest from invested funds amounted to \$35,145, an increase of \$13,340 over the receipts from this source for 1903; \$2,400 have been received from Life Memberships and \$13,980 from Annual Members, an increase in the latter of \$2,240 over the preceding year.

*Endowment and Investment Account.*—The principal items of increase have already been mentioned under the head of "Permanent Endowment," and the expenditures will be found detailed under the several departments to which the gifts especially relate, and in the financial statements of this account on pages 48 and 49.

**BUILDING AND GROUNDS.**—The improvements in the building and grounds mentioned as in progress in last year's report, under appropriations of 1902 and 1903, have progressed. These include the new foyer, the construction of two assembly rooms for classes and for the meetings of the various scientific societies affiliated with the Museum, new toilets, and the new power house. The basement of the main building has been lowered and work is now in progress on an intermediate building between the Lecture Hall and the Power Station. New exhibition cases have been constructed in various parts of the building, and several new exhibition halls have been thrown open to the public, as noted later in the reports on the departments to which they relate.

**MEMBERSHIP.**—The gain in annual members has been 278, resulting in a net gain of 191, the loss through deaths and resignations having been 87. It is a pleasure to record that

this is the largest number added during a single year in the Museum's history, as it indicates increased interest in the work of the Museum.

NEW MEMBERS.

The following persons were elected Patrons:

MRS. ABRAM S. HEWITT,	ROBERT W. GOELET,
MISS MATILDA W. BRUCE,	HERMON C. BUMPUS.

DR. WILLIAM W. RADLOFF was elected a Fellow.

The following have been made Life Members:

HERBERT L. SATTERLEE,	FREDERICK G. BOURNE,
HIRAM W. SIBLEY,	P. J. GOODHART,
GEORGE A. TREADWELL,	BENJAMIN P. DAVIS,
R. F. WILLIAMS,	THOMAS F. SOMERS,
ADMIRAL ALEXIEFF,	JOHN R. SLATTERY,
I. E. GATES,	MRS. CONSTANCE S. MEAD,
HENRY IDEN,	GEORGE W. COLLORD,
L. HARDING ROGERS, JR.,	NELSON ROBINSON,
ERNEST KEMPTON ADAMS,	GEORGE S. BREWSTER,
JAMES H. PARKER,	CARL UPMANN,
V. EVERIT MACY,	MRS. P. HACKLEY BARHYDT,
ALBERT H. STORER,	S. M. LEHMAN,
CHARLES A. MOORE, JR.,	SAMUEL ELLIOTT,
CLARENCE M. HYDE,	JAMES R. STEERS.

DECEASED MEMBERS.

*Trustees.*

WILLIAM C. WHITNEY.

*Patrons.*

JAMES B. COLGATE,	LOUIS P. DI CESNOLA,
OLIVER HARRIMAN.	

*Fellows.*

SAMUEL P. AVERY.

*Life Members.*

B. G. ARNOLD,	ERNEST KEMPTON ADAMS.
---------------	-----------------------

*Annual Members.*

ABEGG, HENRY	HOWLETT, A. AMES
ALDRICH, MRS. H. D.	JAEGER, FRANCIS M.
BALDWIN, O. D.	JOHNSON, S. FISHER
BANYER, GOLDSBOROUGH	KERNER, CHARLES H.
BARTON, FREDERICK O.	LATHERS, MRS. RICHARD
BLODGETT, MRS. WM. T.	LOCKMAN, JACOB K.
BORG, SIMON	NAVARRO, JUAN N.
CALLAWAY, S. R.	NOTT, FREDERICK J.
CARTER, WALTER S.	O'CONNOR, THOMAS D.
CHITTENDEN, J.	PLATT, ISAAC S.
CLARK, CHARLES F.	PUTNEY, W. B.
COLGATE, ABNER W.	SANDS, ANDREW H.
CRAWFORD, W. H.	STORM, GEORGE
DAVENPORT, IRA	TOOTHE, WILLIAM
DODGE, GEORGE E.	TOWNSEND, R. H. L.
DRAKE, JOHN J.	TROWBRIDGE, E. D.
DORMITZER, MRS. HENRY	WALLACH, ANTONY
GRACE, WILLIAM R.	WILLETTS, JOSEPH C.
HENDRICKS, HENRY H.	WIENER, DR. JOSEPH

DEPARTMENT OF GEOLOGY AND PALEONTOLOGY.—The work of cataloguing and labeling has progressed steadily throughout the year, over five thousand catalogue entries having been made and more than eleven hundred new labels prepared. The acquisitions include an important collection of Silurian fossils from Ohio, acquired by purchase, and several minor additions, obtained partly by exchange and partly by purchase. Additions have also been made to the collection of rock specimens, designed to illustrate the geology of New York Island. Two new cases placed in the alcoves at the south end of the Geological Hall have given opportunity for a better display and more convenient arrangement of the material in that part of the hall.

The Curator, Professor Whitfield, has prepared and published several papers in the Museum Bulletin, illustrated with four plates, relating to a new genus and species of Lower

Carboniferous Bryozoan, a remarkable case of the reproduction of lost parts shown in a fossil Crinoid, and supposed worm burrows in rocks of the Chemung Group of New York. The Associate Curator, Dr. Hovey, has had charge of the Museum *Journal*, and has prepared and published various papers connected with his investigations of volcanic eruptions in the West Indies, and has given lectures in the Museum courses and elsewhere, in the interest of the Museum, on these and other subjects.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—Several important accessions have been made during the year to the collections of both mammals and birds, partly by purchase and partly through Museum Expeditions. Of special popular interest is the installation of a number of noteworthy bird groups, and the advanced state of preparation of others. The former include the Yellow-billed Magpie, the Sierra Dusky Grouse, the Mountain Quail and the Valley Quail, illustrating interesting types of bird life peculiar to California; the latter include a large Flamingo Group, and a group illustrating the bird life of the irrigated portions of the San Joaquin Valley, California. Considerable progress has also been made in the construction of large mammal groups, as the Roosevelt or Olympic Elk, the big Alaska Peninsula Bear, and the Mexican Collared Peccary groups. Single specimens mounted for exhibition include a Central American Puma, a Crested Antelope, a Rocky Mountain Goat (presented by Mr. C. A. Moore, Jr.), and some twenty or more smaller animals, as hares, squirrels, spermophiles, wood rats, field mice, etc.

The Museum Expeditions include the trip of the Associate Curator, Mr. Chapman, to Florida and the Bahamas under the North American Ornithology Fund, which resulted in securing abundant material for a fine Flamingo Group, and also for other bird groups soon to be constructed. The Mexican Expedition under J. H. Batty has been very successful, yielding large returns in birds and mammals, including group accessories as well as valuable material for other departments of the Museum.

The accessions altogether include about 1,900 mammals and over 6,000 birds, 278 of the latter being by donation, and include 136 birds from Ecuador, presented by Dr. S. Austin Davis. The Museum is indebted to Mr. N. D. Bill, of Springfield, Mass., for the use of the schooner yacht *Gloria* for Mr. Chapman's work in Florida and the Bahamas. The Museum is also indebted to the New York Zoölogical Society and to the Central Park Menagerie for many valuable specimens received in the flesh.

The Curator, in addition to his editorial supervision of the *Bulletin*, has been able to devote considerable time to the preparation of papers on mammals, and during the year published reports on a number of important collections received during recent years and now for the first time critically identified. A list of these, twelve in number, will be found in the report of the "Department of Books and Publications" (page 33). The Associate Curator, besides his important field explorations and constant supervision of the work on the bird groups, has published a description of a new grouse from the Sierra Nevada of California and a report on the birds collected by the Andrew J. Stone Expedition to Alaska in 1903. He has also given many lectures in the Museum courses and also elsewhere in the interest of the Museum.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—Nearly 600 specimens of fossil vertebrates have been added to the collection during the year, principally as a result of the following expeditions:

Expeditions for Cretaceous reptiles.....	17
Bridger expedition for fossil mammals. ....	388
Big Badlands expedition for fossil mammals.....	129
Completed exploration of Pleistocene cave deposit.....	49

The total number of catalogued specimens in the collection is now a little over 15,000.

The most important addition to the collection was the nearly complete skeleton of the Columbian Mammoth, discovered near Jonesboro, Indiana, and purchased by the Museum. This splendid specimen will be mounted and placed

on exhibition beside the Mastodon skeleton, which it considerably exceeds in height and in length of tusks. The Bridger expedition secured materials for a mounted skeleton of the remarkable six-horned Uintathere, a giant mammal of the Eocene epoch, and a number of skulls or skeletons of new or rare extinct animals of smaller size. The expedition to the Big Badlands secured a number of fine specimens of the characteristic fossils of that rich field, including several genera hitherto unknown. A nearly complete skeleton of the Oligocene ancestor of the wolf was acquired by purchase. The explorations in the fissure or open cave deposits of northern Arkansas have yielded a large collection of the forest-haunting animals of the Pleistocene epoch, probably contemporary with the earliest appearance of man in North America. The collection is peculiarly rich in small animals; it includes some sixty species, many of them extinct, the others mostly northern animals, indicating a former much colder climate than now prevails in that region.

Our collections of extinct reptiles have been enriched by two fine Plesiosaur skulls and a number of Mosasaur skeletons from South Dakota, two Marine Crocodile skulls from Montana, and a skull of the Duck-billed Dinosaur from New Mexico. Especial attention has been given in the field-work of recent years to the search for fossil reptiles, which, although more difficult to find and more expensive to collect and prepare for exhibition than fossil mammals, are yet of greater interest, as representing more ancient and less known types of life, more widely different from those of the present day, and in many respects far more extraordinary than the extinct animals shown in the Hall of Fossil Mammals.

Much progress has been made in the preparation of these extinct reptiles, and especially of the Dinosaurs, for exhibition in the new Dinosaur Hall. The skeleton of the Dwarf Carnivorous Dinosaur, or "Bird-Catcher," has been placed on exhibition, the gigantic *Brontosaurus* skeleton is nearly completed, and three other huge and remarkable Dinosaur skeletons are well under way toward mounting. A number of skulls, limbs, and incomplete specimens have been prepared and mounted, enough to go a long way toward filling the new

hall. The energies of the department have been largely devoted during the past year to the mounting of the huge *Brontosaurus* skeleton which will form the central attraction of the Dinosaur Hall. This skeleton, 67 feet long and over 15 feet high, has presented peculiar difficulties, both mechanical and scientific, in the mounting, and much study and experiment by the Curator and his staff were required to solve them. In the modeling of the missing parts of the skeleton we are indebted for many courtesies to the Museum of Yale University. Corresponding courtesies have been extended by us to the Carnegie Museum in connection with the cast of the *Diplodocus* skeleton being prepared there for exhibition in the British Museum, London.

The cessation of the Whitney Fund for the exhibit of the Evolution of the Horse has seriously crippled the work of the department in this direction. Much has been accomplished during the three years of the continuance of this fund, the Oligocene, Miocene, Pleistocene and modern horses being now well illustrated by mounted skeletons and by series of skulls, feet, etc., showing the morphology and evolution of those parts in each of the above stages in the development of the race. Several important problems, however, still remain unsolved, especially in the Eocene or earliest stages of the Ancestry of the Horses, which are as yet incompletely known and inadequately illustrated. The most important addition to the Horse Alcove during the year was the exhibit of the Rearing Horse and Man skeletons. An instructive comparison with the evolution of the Horse is furnished by the series of feet illustrating the Evolution of the Camel in North America.

The preparation of the fossil fish collections for exhibition has progressed rapidly under direction of Professor Dean; they will be displayed in the small tower hall in the southeast corner adjoining the Dinosaur Hall. Dr. Hay has continued his studies upon fossil turtles with the assistance of the grant from the Carnegie Institution, and a fine series of specimens is being prepared for exhibition.

A number of scientific papers were published during the year, and several monographic researches continued or com-



pleted by the Curator and his staff, the most important being upon the fossil horses and titanotheres.

DEPARTMENT OF ETHNOLOGY.—The department has received accessions principally through a number of expeditions sent out by the Museum. The following deserve special mention:

From North America, a Nootka collection obtained by Mr. George Hunt. The most remarkable part of this collection is a whaler's ceremonial house, which was found on a pond in the interior of Vancouver Island, and in which generations of whalers purified themselves, the house being used at the same time as a depository for the skulls of the whalers.—A Blackfoot collection obtained by Dr. Clark Wissler. Dr. Wissler paid special attention to a study of the ceremonials of the Blackfeet, and his collection illustrates in some detail the religious ceremonials of this tribe.—A collection from the interior of the State of Washington, by Mr. James Teit. This collection was made in continuance of work done in former years in British Columbia, and represents the culture of the Salish tribes near the boundary of the United States.—A collection from the Uchee, made by Mr. F. G. Speck.—A series of casts and negatives of natives of various countries, collected by Mr. Caspar Mayer during the World's Fair at St. Louis. Mr. Mayer's work was done in coöperation with the Field Columbian Museum.

During the past year Dr. Berthold Laufer closed his field-work in China. His expedition, which was provided for by Mr. Jacob H. Schiff, occupied three years, and all the collections made have been received. They cover the various aspects of the social and industrial life of China, and give a comprehensive view of Chinese culture. The collection has been installed in the Southwest Gallery, and has been arranged so as to illustrate the industrial and domestic life of the Chinese, their amusements, their religion and their arts. Special stress has been laid upon the demonstration of the historical development of various forms of Eastern life.

The Korean collections of the department were increased by a collection made by Dr. C. C. Vinton.

Rev. J. W. Chapman, Mr. Henry W. Tate, Capt. George N. Comer and Capt. James S. Mutch are continuing work for the Museum in Alaska, British Columbia, and eastern arctic America, but no collections were received during the past year.

Dr. William Jones continued the researches begun for the Museum under the auspices of the Carnegie Institution, and incidentally obtained additional explanation of material collected in previous years.

During the summer Mr. Frederick R. Burton paid a prolonged visit to the Ojibwa Indians. The Museum provided him with a phonograph, and he made an extensive collection of records of Indian songs.

Dr. Roland B. Dixon revisited California in order to clear up a number of points relating to the studies made during previous years.

The extension of the North American collections has required considerable rearrangement in the Indian Hall, the new material being placed in proper geographical sequence. A special collection has been arranged illustrating the industrial life of the Plains Indians.

The most notable addition to the William Demuth pipe collection has been the acquisition, from Mr. Francis La Flesche, of a set of ceremonial pipes of the Omaha Indians.

The results of the expeditions undertaken by the department are being pushed as rapidly as possible.

Dr. Wissler published a paper on the decorative art of the Sioux, which embodies the results of his researches during the years 1902 and 1903.

Dr. Dixon has completed a paper on the ethnology of the Maidu Indians of California, which is in the hands of the printer.

Dr. A. L. Kroeber's description of the ceremonial organization of the Arapaho has been issued. He has handed in manuscripts on the religion of the Arapaho and on the ethnology of the Gros Ventres, thus finishing the discussion of the results of his expedition to these tribes.

A memoir on the decorative art of the Huichol, by Dr. Carl Lumholtz, was also published during the past year.

From the Jesup North Pacific Expedition, Mr. Waldemar Bogoras's memoir on the Chukchee has been printed and published by E. J. Brill, Lmt.

Dr. John R. Swanton's description of the Haida of Queen Charlotte Islands has also been issued.

At the present time the first part of Mr. Waldemar Jochelson's description of the Koryak, containing the religion and myths of the tribe, is in press.

The last part of the Kwakiutl Texts, by F. Boas and G. Hunt, is also in press.

Mr. Bogoras has handed in his manuscript on the religion of the Chukchee.

Dr. John R. Swanton has handed in his volume of Haida Texts.

In the summer Dr. Boas, as a representative of the Museum, attended the Congress of Americanists held in Stuttgart.

The utilization of the Museum collections for purposes of university instruction has continued. The same courses that are mentioned in the Annual Report of 1903 were given during the present year, and many students carried on their work in the Museum.

DEPARTMENT OF ARCHÆOLOGY.—The department has received several valuable accessions during the year by purchase and gift, noteworthy among which is a collection from the prehistoric pueblo ruins of Socorro, New Mexico, the gift of Mrs. Constance S. Mead and family. Five funeral urns from Oaxaca, presented by Mrs. Robert W. De Forest, form an important addition to our exhibit of Zapotecan ceramics. We acquired 366 specimens by the purchase of the Bauer collection, chiefly illustrative of the Matlaltzincan culture, which was not represented in the Mexican collections. The purchase of a large collection of shell implements from the Barbados materially added to our West Indian collection.

From the Department of Preparation and Installation we received casts of models of the earthwork known as Fort

Ancient and the Serpent Mound in Ohio; also of the Cahokia Mound in Illinois, the largest prehistoric mound in the United States. This model was based on a clay one made for us by Mr. David I. Bushnell, Jr. A model of two effigy mounds, representing animals in Wisconsin was also constructed.

The department has begun arrangements with museums and private collectors to obtain the loan of important specimens for the purpose of making casts to fill in certain gaps in the Museum collections, and also to be used in connection with the publications resulting from our own expeditions to the North Pacific coast. The Museum has received such loan material from the Peabody Academy of Sciences, Salem, Mass.; the Oregon Historical Society, Portland; and Mr. C. P. Wilcomb, of San Francisco. Casts of these specimens have been made by the Department of Preparation and Installation.

The department has also begun the work of making casts from some of the noteworthy objects of ancient art from Mexico and Central America for exchange with other museums for casts of rare material of a like character. A set has been sent to the United States National Museum, which was exhibited at the Louisiana Purchase Exposition at St. Louis. Arrangements have recently been made for an exchange of casts with the Berlin Ethnographical Museum.

The specimens received during the year have been catalogued, and many labels, maps and drawings have been prepared and placed with the collections on exhibition. Certain rearrangements in the Mexican Hall have been undertaken, and the West Indian collections have been removed to the South American Hall.

A synoptic collection was brought together and loaned to Teachers College. This was made up so far as possible from duplicate material. A second collection was selected, labeled and loaned to the Ethical Culture School. This has been returned and is about to be installed as an exhibit for school children.

The following publications have been issued by the department:

M. H. Saville. "Funeral Urns from Oaxaca." (Museum Journal, Vol. IV, pp. 49-60, July.)

Ad. F. Bandelier. "On the Relative Antiquity of Ancient Peruvian Burials." (Bulletin, Vol. XX, Art. XIX, pp. 217-226.)

Harlan I. Smith. "A Costumed Human Figure from Tampico, Washington." (Bulletin, Vol. XX, Art. XVI, pp. 195-203, May 28.)

In addition to the above, Mr. Bandelier has published several papers in the *American Anthropologist* based on his researches in South America for the Museum.

Mr. Smith has secured additional information and illustrations for his reports on the archæology of the Northwest, and has been preparing memoirs on the archæology of Puget Sound and the archæology of central Washington.

DEPARTMENT OF ENTOMOLOGY. — During the past year the rooms of the department were provided with cases for the installation of the study collection of insects. This collection has been entirely rearranged, and the various collections, which have been kept separate heretofore, have been united so as to make a single series. The collections of North American Lepidoptera, Hymenoptera and Hemiptera have been arranged and labeled, while the work on the exotic species of these families is progressing rapidly. Considerable work on the exhibition collection has also been done. The collection of galls produced by insects has been rearranged and labeled in conformity with Guide Leaflet No. 16, "On the Insect-Galls of the Vicinity of New York," which was issued during the latter part of the year.

The following collections have been placed on exhibition: Insects injurious to evergreen trees, together with many illustrations, and parts of the trees affected by the different species; clear-winged moths (Sesiidæ), with food-plants and colored figures; household insects; insects affecting stored grains; local bees, wasps, etc. (Hymenoptera), and their nests; wasps' nests from Brazil and elsewhere; and an observation hive containing a swarm of Italian honey bees.

Through the generosity of Mr. Samuel V. Hoffman, the Curator made a trip to the Black Mountains, North Carolina, in May and June. This expedition was in continuation of the

entomological survey of the Black Mountain region, which has been carried on for some years by the Curator, under grants from the late Very Reverend E. A. Hoffman.

Mr. Samuel Hoffman also kindly provided the funds for the purchase of a collection of 3,600 specimens of North American and exotic moths.

Messrs. G. A. Goss and A. D. Dodge presented a fine collection of beetles from Mt. Kinabalu, British North Borneo.

Mr. J. Rhinelanders donated a unique example of combs of the honey bee (*Apis mellifera*) built on the branch of a tree.

A collection of butterflies and moths from Sredne-Kolymsk, Province of Yakutsk, Siberia, and a number of interesting wasps' nests from Brazil have been acquired by purchase.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.—The Bement Collection of Minerals and the Morgan Gem Collection have attracted a very large number of visitors, and have proved of increasing usefulness in extending interest in the mineral products of the United States. Extensive changes in the installment of the Gems have been planned, and the ensuing year will see a general expansion in respect to their position and arrangement, which is expected to improve the appearance of this popular feature of the department.

A munificent gift from Mrs. Matilda W. Bruce has been received, in the form of an endowment of the Department of Mineralogy. It is an invested sum of \$10,000, the interest of which is to be devoted to the purchase of mineralogical specimens, except in so far as its use in the purchase of geological exhibits seems desirable.

The minerals demand more room, and projects contemplating a more complete exhibition of all the material composing this important collection will shortly be realized. It is to be hoped that in the development of the Museum, Economic Mineralogy will receive consideration, and that the remarkable mineral resources of the country, with at least a partial demonstration of their uses and treatment, will form part of the exhibits in the Museum halls. Additions by purchase and gifts are recorded in the List of Accessions.

The Shell Collections continue to increase much faster than the space allotted for their exhibition, which latter must, for some time to come, remain practically unchanged. Through the continued generosity of Mr. Frederick A. Constable, important additions of Japanese shells have been made. Through the gift of Mr. Albert H. Storer, over seven thousand handsome shells have been added to the collection, and through his liberal permission they may be used in any way helpful to the improvement of the cabinet as a whole. Numerous additions by gift and exchange are recorded in the List of Accessions.

Considerable interest is taken by a group of students and collectors in the shell collection, and it is to be regretted that this now imposing collection cannot be assigned a hall large enough for its complete display, together with facilities for illustrating local distribution and the domestic molluscan fauna.

The time of the Curator has been, apart from the effort made to finish the record of these two large collections, partially employed in the current lectures of the Museum.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—During the past year considerable attention has been given to making the collections in the Synoptic Hall more attractive and comprehensible to the public. The specimens in nearly all of the alcoves have been provided with permanent printed labels. Dr. Dahlgren with his assistants has made some very fine models of various invertebrates, among which the models of a large *Synapta*, several species of moss-animals (Polyzoa), a giant Japanese Hydroid (*Branchiocerianthus*) and a huge Australian sea-anemone (*Discosoma*) are especially noteworthy.

During May and June Professor Wheeler accompanied Mr. Chapman on his expedition to the Florida Keys and the Bahamas. Dr. Dahlgren joined the party during the latter month. A considerable number of corals, sea-fans, insects, myriopods, mollusks, etc., were collected on Andros and New Providence Islands. Dr. Dahlgren secured material for a

group to illustrate the habits of the land-crabs of the West Indies, the accessories and one specimen for a group of Iguanas, besides color-sketches of corals, mollusks, sea-fans, etc., to be used in constructing a coral reef in the Museum. Many of these drawings have been of great value in making models of some of the larger West Indian mollusks for the synoptic collections. Some of the material collected will be of use in supplying specimens to the New York City schools. There is also a good deal of new and undescribed material among the Bahaman insects and myriopods.

Among the numerous acquisitions to the Department during the past year the following deserve special mention: A large collection of marine invertebrates from Vineyard Sound, Mass., purchased from Mr. F. W. Walmesley; forty-seven species of Cœlenterata acquired by exchange with the Dublin Museum, Ireland, through Dr. J. E. Duerden; the above-mentioned collection of corals, etc., made in the Bahamas by Professor Wheeler and Dr. Dahlgren; and a fine collection, comprising more than a thousand vials, of spiders from the United States, the work of the late Horace Britcher and donated to the Museum by the mother and the friends of the young naturalist.

Several scientific papers have been published during the past year by members of the department. Dr. J. E. Duerden has published the following: "The Antiquity of the Zoanthid Actinians," "Recent Results on the Morphology and Development of Coral Polyps," "The Morphology of the Madreporaria V. Septal Sequence," "The Coral *Siderastraa radians* and its Postlarval Development." The following have been published by Professor Wheeler: "Three New Genera of Inquiline Ants from Utah and Colorado," "The Obligations of the Student of Animal Behavior," "A Crustacean-eating Ant," "The American Ants of the Subgenus *Colobopsis*," "Ants from Catalina Island, California," "The Ants of North Carolina," "A New Type of Social Parasitism among Ants," "The Phylogeny of the Termites," etc.

Especially valuable and important has been the work accomplished by Assistant Curator Sherwood in developing and



deepening the interest of the teachers and pupils of the New York schools in the collections of the Museum and the wide range of subjects which they represent. With the opening of the public schools in the fall of the past year the Museum was prepared to loan the small sets of natural history specimens mentioned in the Annual Report for the year 1903. Soon after registration was completed applications from the teachers began to come in for the use of the collections. Few of the schools which had formerly used the collections applied, and later it was learned that, through some misunderstanding, it was thought that the Museum would send the collections without application. An announcement, giving the conditions on which the collections would be loaned, was prepared and sent to all the Manhattan schools. There was an immediate demand for the collections, and by the end of December one hundred and twenty sets were in use in the city. During the fall these have been studied by 40,000 children. To meet the needs of the schools twenty sets of common woods have been prepared. The birds prove to be the most popular with the children, the insects coming next, then the minerals and woods. In fact, the requests for birds and insects are so numerous that it will be necessary to procure additional sets as soon as possible. The circulating collections have now been in use for a year and during that time have been studied by more than 250,000 children.

During October, November and December members of the scientific staff gave a series of informal lectures for school-children. The course was arranged at the request of the New York City Teachers' Association, and the subjects were selected by the Committee on Children's Interests of the Association, with the purpose of supplementing the regular school work as outlined in the syllabus issued by the Board of Education. The hour selected—Monday, Wednesday and Friday afternoons at four o'clock—permitted pupils to attend in classes accompanied by their teachers. There were twelve lectures, each of which was delivered three times. A circular was prepared, announcing the lectures and the conditions on which seats would be reserved. These circulars, together

with coupons for making applications for the reservation of seats, were sent to all the public schools of Greater New York. At first it was thought that one of the small assembly rooms in the Museum would accommodate all that would attend, but as soon as the announcements had been generally distributed, this hall proved to be entirely inadequate, and the lectures were adjourned to the large auditorium, which seats 1428. Again and again every seat in this hall has been taken, and occasionally a special lecture had to be given in the small assembly room for those who could not gain admission to the regular lecture. Frequently several hundred applications were received after all the seats in the hall had been reserved, and the better to meet the demands of these pupils certain of the lectures were repeated Tuesdays and Thursdays. From twenty to thirty schools were represented at each lecture by classes of from ten to two hundred pupils each. There can be no doubt of the popularity of these lectures, as the attendance from October 3 to December 23 was 25,000.

The Department of Invertebrate Zoölogy has received from the Department of Preparation and Installation, during the years 1903 and 1904, the following models of marine animals for exhibition in the Synoptic Hall of the Museum: 29 models of Protozoa (Lobosa, Foraminifera, Radiolaria and Infusoria); 13 Hydroids; 1 Actinarian; 19 Planarians; 11 Nemerteans; 8 Polyzoans; 2 Holothurians; 10 Mollusks. The Department of Preparation and Installation has also mounted several crustaceans, sponges and insects for the synoptic collection.

DEPARTMENT OF PHYSIOLOGY.—The equipment of a small laboratory was begun in July. Much time has been spent in studying methods by which the soft structures of animals could be satisfactorily prepared for Museum demonstration. The older methods of preservation in various fluids have long been unsatisfactory, yet it has been impossible to make creditable preparations in a dry form. To this end a mode of artificial petrification has been used, which thus far has given good results. It is excellently shown in a preparation of the

stomach of a young deer. The entire organ has preserved its natural shape; the characteristic glandular tissue of the rumen is evident; the cellular tissue of the reticulum is distinct; the muscular layers of the psalterium are readily distinguished, and the blood vessels have retained their natural color.

A modification of the same method has been extended to the preparation of osteological sections. The specimens are in every way clean and attractive, showing the structure of the bone and the joint with clearness.

Dr. C. W. F. Muenchehofe has begun a series of corrosion preparations of the liver and kidney, which are already promising excellent results. He has also instituted a tentative bacteriological demonstration showing the typical growth of many chromogenic, pathogenic and useful bacteria, which, when completed, will make an instructive display.

Acknowledgments should here be extended to the Director of the Aquarium, the Director of the New York Zoölogical Society and the Director of the Central Park Menagerie, for many courtesies received.

DEPARTMENT OF PREPARATION AND INSTALLATION.—The Department of Preparation and Installation was established at the beginning of the year 1903 for the purpose of coördinating some of the more or less similar classes of preparatory work required by the various departments of the Museum and up to that time performed by each of them separately. The function of the new department thus became the preparation of various material for the respective study collections and particularly for purposes of exhibition.

Besides this, its primary object, there has been developed in the department, under Dr. B. E. Dahlgren, a line of Museum work not heretofore seriously attempted in this country—the preparation of biological models. During the short time of its progress this work has been carried on along such lines as the needs of the synoptic zoölogical exhibit required, and a considerable number of forms have been modeled as follows:

1. Models have been made of microscopic forms, especially the Protozoa, many of them enlarged 500-800 diameters, of minute Hydroids, of Planarians, and Polyzoa.

2. Series of models showing consecutive stages in the development of different forms, as the development of a coral polyp. These series in each case embody the results of the researches of investigators of the particular subject with which they deal, and are prepared under their supervision. In exchange for duplicates, material has thus been obtained from Prof. J. S. Kingsley, Prof. C. Judson Herrick, Prof. Charles A. Bardeen, and their coöperation secured.

3. Models have been prepared, showing the structure or anatomy of some of the more complicated invertebrates, such as the clam and oyster.

4. Models have also been made of a number of invertebrate forms which, because of their perishable nature, are impossible of satisfactory preservation. The sea anemones and holothurians are good examples.

The specimens of birds and mammals received by the Museum during the year have been cared for, and from this material skins and skeletons prepared for the study collections. Some thirty mammals and over one hundred and seventy-five birds have been mounted.

A group of Alaska Brown Bears, a group of Peccaries and a group of Roosevelt Elk are under way. The material for the Elk group has been collected during the year; also, among other things, skins and accessories for a group of Beavers. Several Reptile groups are under way, and a group of Land Crabs from the Bahamas has been collected and prepared.

A number of small bird groups have been constructed from material collected by Mr. Chapman. Also two large groups of birds—one representing the bird-life of an irrigated area of the San Joaquin Valley, the other a Flamingo colony.

Experiments toward the establishment of satisfactory methods of procedure in the mounting of mammals, reptiles, etc.,

have been carried on during the actual progress of the work, and some satisfactory results have been reached.

The current work of preparing maps, labels, and lettering has been performed by the department; also the general work in photography for the Museum.

Some relief maps have been modeled and the large Antarctic charts now in the foyer have been made. A large number of piece moulds, casts, etc., have been made for various departments, as noted under the departments to which they belong.

DEPARTMENT OF BOOKS AND PUBLICATIONS.—During the past year the special work has been the cataloguing of the Library, which was necessitated by the adoption of a new and more scientific method of classification; as a result 32,872 volumes have been catalogued with both subject and author index. This work has been under the direct supervision of Miss I. R. Hood.

The accessions for the year amounted to 2,931 volumes and 3,103 pamphlets; among which are many valuable serials as well as the more important new books which have appeared during the year.

Of special interest has been the gift of the private library of Professor H. C. Bumpus and also the gift of the elephant folio edition of Audubon's "Birds of America," by Mr. Archibald Rogers. Mr. John R. Livermore has given a painting of the White-throated Sparrow, bearing the signature of J. J. Audubon. Prof. Wheeler has presented to the Museum his collections of books and pamphlets on Arachnida, and the Museum has acquired by purchase his library on North American Diptera.

On the shelves of the Library will now be found the current numbers of all the important periodicals relating to natural history, together with the larger number of the publications of the Academies and learned Societies of the world.

The book-binding department has been engaged almost entirely in the covering of separata, which have been accumulating for many years.

During the year 15,573 cards have been received from the Concilium Bibliographicum and intercalated in the original set. This has proved to be one of the most complete and practical bibliographies of biological subjects, and has been much used. In addition to this set the Concilium has recently deposited in the American Museum of Natural History a complete set of its cards. These are for the convenience of American purchasers, who can thus obtain the cards at the same price as from Zürich, but with the saving of much time. The Museum has undertaken this gratuitously for the benefit of American biologists.

During the past year the Museum has sent the following letter to one hundred Institutions in selected centers:

“The American Museum of Natural History desires to place its publications in certain institutions where they may remain as complete sets for all time. We are therefore asking you if the name of your library may be placed upon a list of one hundred institutions to receive the ‘Memoirs’ and ‘Bulletin’ of the American Museum, with the understanding, first, that these publications be sent gratis, and second, that they shall be made available for reference and study for those in your locality who may be disposed to avail themselves of the general privileges of your institution.”

Replies have been received and publications sent to ninety-eight of these institutions.

Following is a list of the scientific publications of the Museum issued in 1904, as received by the Curator for distribution and exchange:

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALEONTOLOGY.

*Bulletin*, Volume XX.

R. P. Whitfield. “Notice of a New Genus and Species of Lower Carboniferous Bryozoan.” (Page 469, plate xi, fig. 2 and 3.)

R. P. Whitfield. “Notice of a Remarkable Case of Reproduction of Lost Parts Shown on a Fossil Crinoid.” (Pages 471-472, plates xi, fig. 1 and 4, xii and xiii.)

R. P. Whitfield. “Note on some Worm (?) Burrows in Rocks of the Chemung Group of New York.” (Pages 473, 474, plate xiv.)

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

*Bulletin*, Volume XX.

J. A. Allen. "New Forms of the Mountain Goat (*Oreamnos*)." (Pages 19-21.)

J. A. Allen. "Mammals from Southern Mexico and Central and South America." (Pages 29-80, with 18 text figures.)

J. A. Allen. "The External Ear-bone in Certain Rodents." (Pages 135-138, with 1 text figure.)

J. A. Allen. "Further Notes on Mammals from Northwestern Durango." (Pages 205-210.)

J. A. Allen. "New Bats from Tropical America, with Note on Species of *Otopterus*." (Pages 227-237.)

J. A. Allen. "Mammals Collected in Alaska by the Andrew J. Stone Expedition of 1903." (Pages 273-292, with 9 text figures.)

J. A. Allen. "A New Sheep from Kamchatka." (Pages 293-298, with 6 text figures.)

J. A. Allen. "New Mammals from Venezuela and Colombia." (Pages 327-335.)

J. A. Allen. "List of Mammals from Venezuela, Collected by Mr. Samuel M. Klages." (Pages 337-345.)

J. A. Allen. "A Fossil Porcupine from Arizona." (Pages 383, 384.)

J. A. Allen. "The Tamandua Anteaters." (Pages 385-398, with 4 text figures.)

J. A. Allen. "Report of Mammals from the District of Santa Marta, Colombia, Collected by Mr. Herbert H. Smith, with Field Notes by Mr. Smith." (Pages 407-468, with 4 text figures.)

Frank M. Chapman. "A New Grouse from California." (Pages 159-162.)

Frank M. Chapman. "List of Birds Collected in Alaska by the Andrew J. Stone Expedition of 1903." (Pages 399-406.)

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

*Bulletin*, Volume XX.

J. W. Gidley. "Proper Generic Names of Miocene Horses." (Pages 191-194.)

W. D. Matthew. "A Complete Skeleton of *Merycodus*." (Pages 101-129, plate iii, with 21 text figures.)

W. D. Matthew. "Notice of Two New Oligocene Camels." (Pages 211-215.)

W. D. Matthew and J. W. Gidley. "New or Little-Known Mammals from the Miocene of South Dakota. American Museum Expedition of 1903." (Pages 241-268, with 15 text figures.)

H. F. Osborn. "An Armadillo from the Middle Eocene (Bridger) of North America." (Pages 163-165.)

H. F. Osborn. "New Oligocene Horses." (Pages 167-179, plates iv and v, with 8 text figures.)

H. F. Osborn. "Manus, Sacrum, and Caudals of Sauropoda." (Pages 181-190, with 6 text figures.)

H. F. Osborn. "*Teleorhinus browni*—A Teleosaur in the Fort Benton." (Pages 239, 240.)

H. F. Osborn. "New Miocene Rhinoceroses with Revision of Known Species." (Pages 307-326, with 21 text figures.)

H. F. Osborn. "The Great Cretaceous Fish *Portheus molossus* Cope." (Pages 377-381, plate x, with 4 text figures.)

"Revised Lists of Casts, Models and Photographs of Fossil Vertebrates." (Supplement, pages 1-52, with 8 text figures.)

DEPARTMENT OF ETHNOLOGY.

*Memoirs.*

Waldermar Bogoras. "The Chukchee—Material Culture." (Volume VII, Pt. 3, pages 1-276, plates i-xxxi, with 199 text figures and a colored map.)

Carl Lumholtz. "Decorative Art of the Huichol Indians." (Volume III, Pt. 3, pages 279-327, plates xix-xxiii, with 170 text figures.)

*Bulletin.*

A. L. Kroeber. "The Arapaho. III. Ceremonial Organization." (Vol. XVIII, Pt. II, pages 151-230, with 70 text figures.)

Clark Wissler. "Decorative Art of the Sioux Indians." (Vol. XVIII, Pt. III, pages 231-278, plates xxxviii-lvi, with 102 text figures.)

Harlan I. Smith. "A Costumed Human Figure from Tampico, Washington." (Vol. XX, pages 195-203, plates vi-ix, with 3 text figures.)

DEPARTMENT OF ARCHÆOLOGY.

*Bulletin*, Volume XX.

Ad. F. Bandelier. "On the Relative Antiquity of Ancient Peruvian Burials." (Pages 217-226.)

DEPARTMENT OF ENTOMOLOGY.

*Bulletin*, Volume XX.

William Beutenmüller. "The Types of Cynipidæ in the Collection of the American Museum of Natural History." (Pages 23-28.)

William Beutenmüller. "Types of Lepidoptera in the Collection of the American Museum of Natural History." (Pages 81-86.)

William Beutenmüller. "Types of Diptera in the Collection of the American Museum of Natural History." (Pages 87-99.)

*Journal*, Volume IV, No. 4.

William Beutenmüller. "The Insect Galls of the Vicinity of New York City." (Pages 89-124, with 87 text figures.)



DEPARTMENT OF INVERTEBRATE ZOOLOGY.

*Bulletin*, Volume XX.

Charles Thomas Brues. "Notes on *Trichobius* and the Systematic Position of the Streblidæ." (Pages 131-134, with 1 text figure.)

William Morton Wheeler. "Three New Genera of Inquiline Ants from Utah and Colorado." (Pages 1-17, plates i-ii.)

William Morton Wheeler. "The American Ants of the Subgenus *Colobopsis*." (Pages 139-158, with 7 text figures.)

William Morton Wheeler. "Ants from Catalina Island, California." (Pages 269-271.)

William Morton Wheeler. "The Ants of North Carolina." (Pages 299-306.)

William Morton Wheeler. "A New Type of Social Parasitism among Ants." (Pages 347-375.)

*The American Museum Journal* was published as a quarterly. Guide Leaflets were issued with the numbers as follows:

"A General Guide to the American Museum of Natural History." (Pages 1-54, with text illustrations.) January.

"Birds' Nests and Eggs," Frank M. Chapman. (Pages 1-31, with text illustrations.) April.

"Primitive Art." (Pages 1-39, with numerous text figures.) July.

"The Insect-Galls of the Vicinity of New York City," William Beutenmüller. (Pages 1-38, with many text figures.) October.

DEPARTMENT OF MAPS AND CHARTS.—The work of preparing and classifying the Museum's large collection of maps has been continued by Dr. Woodward. A large part of the collection is now available for use, having been placed in convenient holders, arranged by subjects, as under states, counties, etc., so as to be readily accessible. Several maps of great rarity are contained in the collection, which now ranks as fourth in importance in New York City. Much use of the collection has been made during the past year, even by persons outside of the Museum Staff.

Important donations have been received from Gen. J. Watts de Peyster, Dr. H. C. Bumpus, Prof. H. F. Osborn, and Mr. A. F. Bandelier. The accessions have been:

By Donation.....	Atlases	3.....	Maps	414.....	Charts	0
" Exchange.....	"	29.....	"	3.....	"	0
" Purchase.....	"	0.....	"	281.....	"	1
Total.....		32.....		698.....		1

ATTENDANCE.—The number of visitors to the Museum during 1904 was 402,449—a considerable increase over that of previous years. The number of pupils from the schools, public and private, increased from 7,032 in 1903 to 42,380 in 1904, a gain of about 600 per cent. This is largely the result of the establishment of new and more intimate relations between the Museum and the Public Schools. Members of the scientific staff have been detailed to give lectures especially prepared for the school children. These have been attended by fully 35,000 pupils. As stated elsewhere in this report, the Museum has kept in circulation among the schools about 140 small collections of natural history specimens, thus still further extending the educational work of the Museum among the Public Schools.

The number of visitors on holidays is often so great as to tax our resources for their management and accommodation. The attendance at the meetings of the scientific societies held in the Museum has been over 1700; at public lectures, about 44,000, besides the 35,000 present at lectures given to school children.

ASSOCIATED SOCIETIES AND ORGANIZATIONS.—As already noted on an earlier page of this report, two small assembly rooms were fitted up early in the year for the use of the scientific societies which have sought affiliations with the Museum, and also for use as small lecture halls. The following societies and classes have shared the hospitality of the Museum during the past year:

- New York Academy of Sciences.
- New York Entomological Society.
- Linnæan Society of New York.
- New York Mineralogical Club.
- West Side Natural History Society.
- American Ethnological Society.
- Sequoia League.
- Audubon Society of the State of New York.
- Eighth International Geographic Congress.
- Dr. J. E. Peabody's class in Zoölogy.
- Dr. Clark Wissler's class in Anthropology.
- Mr. Julius M. Johnson's class in Nature Study.

TRANSPORTATION.—As heretofore we have been greatly assisted in our field work by the liberality of various railways and transportation companies through the granting of passes to curators and their assistants, in reaching and returning from their distant fields of exploration, and reduced rates of transportation for their collection, without which generous aid extensive field work would be impossible. The list of railways and transportation companies to whom we have been indebted during the past year is as follows:

Atchison, Topeka & Santa Fé Railway.	Mexican Central Railway.
Chicago, Milwaukee & St. Paul Railway.	Mexican National Railway.
Chicago & Northwestern Railway.	Northern Pacific Railway.
Chicago, Burlington & Quincy Railway.	Southern Railway.
Canadian Pacific Railway.	Southern Pacific Company.
Canadian Northern Railway.	St. Louis & San Francisco Railroad.
Erie Railroad.	Union Pacific Railroad.
Great Northern Railway.	Wabash Railroad.

LECTURES.—The courses of lectures include (1) a course to teachers, (2) a course to members of the Museum, (3) a public course given on holidays, (4) lectures to the children of the public schools, (5) a course under the auspices of the Board of Education of the City of New York, in coöperation with the Museum.

The spring course to teachers was given as usual by Professor Bickmore under a grant from the State. At the end of this course the State failed to renew the grant, and the fall course, owing to the illness of Professor Bickmore, was given by other members of the Museum Staff. These courses were as follows:

LECTURES TO TEACHERS.

*Spring Course. By Professor Bickmore.*

January	23.—Holland—Amsterdam and Haarlem.
“	30.—Holland—Amsterdam and Haarlem.
February	6.—Holland—Rotterdam and the Hague.
“	13.—Holland—Rotterdam and the Hague.
“	20.—Belgium—Antwerp and Bruges.
“	27.—Belgium—Antwerp and Bruges.
March	5.—Belgium—Brussels and Waterloo.
“	12.—Belgium—Brussels and Waterloo.

*Fall Course.*

October	22.—The Birds of Autumn and their Habits. . . Frank M. Chapman
“	29.—The Most Profitable Methods of Bird Study for Teachers, Pupils and Bird Lovers. . . . Frank M. Chapman

- November 5.—The Origin of the American Continent and its Essential Physical Features.....Edmund Otis Hovey  
 “ 12.—Certain Facts and Methods of Physical Geography that may be of use in the Class-room. .Edmund Otis Hovey  
 “ 19.—How the Parks, Highways and Buildings of our City may be used as Material for Nature Study. . Louis P. Gratacap  
 “ 26.—The Industries of the Sea..... Louis P. Gratacap

## PUBLIC LECTURES ON HOLIDAYS.

- New Year's Day, January 1.—Germany—Berlin. . . . Prof. Albert S. Bickmore  
 Lincoln's Birthday, February 12.—Mount Pelé and the Destruction of St. Pierre, Martinique, illustrated by views and specimens.....Dr. Edmund Otis Hovey  
 Washington's Birthday, February 22.—Holland—Amsterdam.  
 Prof. Albert S. Bickmore  
 Thanksgiving Day, November 24.—Russia—The Land and the People.  
 Dr. Edmund Otis Hovey  
 Christmas Day, December 26.—A Christmas Trip in the Tropics.  
 Frank M. Chapman

## LECTURES FOR MEMBERS.

*Evening Courses.*

- January 7.—The Evolution of the Horse.....Prof. Henry F. Osborn  
 “ 14.—Island Bird Life.....Frank M. Chapman  
 “ 21.—Mimicry and Protective Coloring in Animals.  
 Prof. William Morton Wheeler  
 “ 28.—The Scientific Results of the Jesup North Pacific Expedition.....Prof. Franz Boas  
 February 4.—The Navaho and Other Blanket Makers of the Southwest.....George H. Pepper  
 “ 11.—The Island of Titicaca.....A. F. Bandelier  
 “ 18.—The Work of the American Museum Among the Indians of California.....Prof. Livingston Farrand  
 “ 25.—Collecting Large Arctic Mammals.....Andrew J. Stone  
 March 3.—Holland—Amsterdam and Haarlem. . Prof. Albert S. Bickmore  
 “ 10.—Holland—Rotterdam and The Hague.  
 Prof. Albert S. Bickmore  
 “ 17.—Belgium—Antwerp and Bruges. . . . Prof. Albert S. Bickmore  
 “ 24.—Belgium—Brussels and Waterloo. . . Prof. Albert S. Bickmore  
 November 17.—Russia—The Land and the People. . Dr. Edmund Otis Hovey  
 December 1.—Shore and Island Life of the Bahamas.  
 Dr. William Morton Wheeler  
 “ 8.—The Home-Life of Flamingos. (With remarkable Photographs from Nature.....Frank M. Chapman  
 “ 15.—The Japanese—Their Social Life and Their Characteristics.....Dr. Bashford Dean

*Saturday Morning Lectures for the Children of Members.*

In the spring a course of lectures was given for the children of Members of the Museum on Saturday mornings, as follows:

- April 16.—Ants, Bees and Wasps.....Dr. William Morton Wheeler  
 “ 23.—Sea Beach at Ebb Tide.....George H. Sherwood  
 “ 30.—How to Study the Reptiles.....Dr. Hermon C. Bumpus  
 May 7.—Some Common Rocks and What They Mean,  
 Dr. Edmund Otis Hovey  
 “ 14.—The American Indians and How They Live,  
 Dr. Livingston Farrand  
 “ 21.—The Home Life of Birds.....William Dutcher

LECTURES TO CHILDREN FROM THE PUBLIC SCHOOLS.

- Jan. 27.—European Geography.....George H. Sherwood  
 Mar. 8.—Lecture on Indians.....Dr. Clark Wissler  
 “ 25.—Indian Relics.....Harlan I. Smith  
 April 8.—Development of New York City.....L. P. Gratacap  
 “ 15.—Topography and Early History of New York.....L. P. Gratacap  
 “ 26.—The Industries of the United States.....George H. Sherwood  
 May 2.—Geography.....George H. Sherwood  
 “ 10.—Commercial Centers of the United States.....L. P. Gratacap  
 May 20 and June 29.—Industries of the United States...George H. Sherwood  
 Oct. 3 and 31, and Nov. 28.—A Little Journey in South America,  
 George H. Sherwood  
 “ 7, Nov. 4 and Dec. 2.—Industries of the United States,  
 George H. Sherwood  
 “ 10, Nov. 7 and Dec. 5.—New York City, Past and Present,  
 L. P. Gratacap  
 “ 12, Nov. 9 and Dec. 7.—Scenes in the Western Hemisphere,  
 George H. Sherwood  
 Oct. 14, Nov. 11 and Dec. 9.—Methods of Transportation, Past and Present,  
 Harlan I. Smith  
 “ 17, Nov. 14 and Dec. 12.—The Planets.....L. P. Gratacap  
 “ 19, Nov. 16 and Dec. 14.—The Islands of the Sea..George H. Sherwood  
 “ 21, Nov. 18 and Dec. 16.—Our Wonderful Bodies..Dr. Ralph W. Tower  
 “ 24, Nov. 21 and Dec. 19.—Distant Asia and Africa..George H. Sherwood  
 “ 26, Nov. 23 and Dec. 21.—A Trip Through Europe,  
 Dr. Edmund Otis Hovey  
 “ 28, Nov. 25 and Dec. 23.—The American Indian.....Harlan I. Smith  
 Nov. 2 and 30.—Physical Geography from Pictures..Dr. Edmund Otis Hovey  
 “ 7 and 10.—New York City, Past and Present.....L. P. Gratacap  
 “ 9 and 15.—Scenes in the Western Hemisphere...George H. Sherwood  
 “ 11 and 17.—Methods of Transportation, Past and Present..Harlan I. Smith  
 “ 23 and 29.—A Trip Through Europe.....Dr. Edmund Otis Hovey

In addition to the above, the following four lectures were given to school children, at the request of the *New York Globe*:

- Mar. 4 and 15.—The American Museum of Natural History...Harlan I. Smith  
 “ 11.—The Parks of New York.....L. P. Gratacap



*Saturday Evening Lectures.*

Heat as a Mode of Motion.

A Course of Eight Lectures, by Prof. E. R. von Nardroff.

- Jan. 9.—Energy as a Source of Heat.  
“ 16.—The Expansive Force of Heat.  
“ 23.—The Conduction and Convection of Heat.  
“ 30.—The Three Forms of Matter in Relation to Heat.  
Feb. 6.—The Spheroidal State.  
“ 13.—Heat in the Form of Waves.  
“ 20.—Liquid Air, or the Phenomena of Extreme Cold.  
“ 27.—Heat as a Source of Energy.

The Principles of Biology and Zoölogy.

A Course of Eight Lectures, by Prof. Henry E. Crampton.

- Mar. 5.—Life and Living Matter.  
“ 12.—The Living Organism.  
“ 19.—The Simplest Animals.  
“ 26.—The Jointed Animals (Worms and their Relatives).  
April 2.—The Jointed Animals (Insects, etc.).  
“ 9.—Star-Fishes and Their Relatives, Mollusks.  
“ 16.—The Lower Back-boned Animals.  
“ 23.—The Higher Back-boned Animals.

Zoölogy.

A Course of Four Lectures, by Ernest Ingersoll.

- Oct. 8.—Animal Faculties and Achievements.  
“ 15.—Making a Living in the Animal World.  
“ 22.—Love and War Among the Animals.  
“ 29.—Home and Society in Animal Life.

The Life of Primitive Peoples.

A Course of Six Lectures, by Prof. Livingston Farrand.

- Nov. 5.—Primitive Culture and Types of Primitive Man.  
“ 12.—Primitive Family Life and Organization.  
“ 19.—Industrial Life: Hunting and Fishing.  
“ 26.—Industrial Life: Fire-making, Pottery, Weaving.  
Dec. 3.—Primitive Art.  
“ 10.—Primitive Religions and Ceremonials.

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It gives me pleasure to call attention to the satisfactory progress of the work of the Museum during the year 1904. Important additions have been made to the collections in nearly all departments, and several notable exhibits have for

the first time been opened to the public. The educational work has been greatly extended through the special lectures of the scientific staff to the pupils of the public schools, and through the provision of additional circulating collections of natural history specimens. The publications, based on the researches of the scientific staff, have fully maintained the high standard of previous years. The appreciation of the public has been manifested by an increase in the number of visitors, in the lecture attendance and in the addition of more than the usual number of new members; the hopes and expectations of the Founders, however, will not be fully realized until a much larger number of citizens of all classes have discovered the pleasure that comes from coöperating in good work. There never has been a time when the Museum would more gladly welcome new members, or when membership fees would accomplish more than the present.

In closing this Report, and with the utmost regret, I am obliged to announce to the friends of the Museum the loss we sustain in the decease of Mr. Adrian Iselin, one of the original incorporators, for thirty-six years a member of the Board of Trustees, a generous contributor and a sincere friend.

Very truly yours,

MORRIS K. JESUP, *President.*



# FINANCIAL STATEMENT.

## *PERMANENT ENDOWMENT.*

General Fund.....	\$972,000 00
John B. Trevor Fund.....	15,000 00
Josiah M. Fiske Fund.....	10,000 00
Matilda W. Bruce Fund.....	11,000 00
Solomon Loeb Fund.....	5,000 00

\$1,013,000 00

## *SPECIAL FUNDS.*

### *EASTERN ASIATIC RESEARCH.*

#### RECEIPTS, 1904.

Cash balance January 1, 1904.....	\$1,389 06	
Sale of publications.....	63 93	
Interest on bank balances.....	22 97	\$1,475 96

#### DISBURSEMENTS, 1904.

Dr. B. Laufer, salary.....	\$780 58	
Expenses of expedition.....	280 66	
Sundry bills, custom-house fees, freight charges.....	414 72	\$1,475 96

#### RECAPITULATION.

Total receipts.....	\$19,119 67
Total disbursements.....	19,119 67

### *EAST ASIATIC COMMITTEE.*

#### RECEIPTS, 1904.

For salary Dr. B. Laufer, one year.....	\$1,500 00	
For publications.....	1,000 00	
Interest on balances.....	9 39	\$2,509 39

#### DISBURSEMENTS, 1904.

Salary, Dr. B. Laufer, October, November, December..	\$375 00	
Photographs and negatives.....	7 16	382 16
Cash on hand, December 31, 1904.....		<u>\$2,127 23</u>

### *ANDREW J. STONE EXPEDITION.*

#### RECEIPTS, 1904.

Cash balance January 1, 1904.....	\$855 11	
Contribution.....	100 00	
Refund, freight charges.....	86 05	
Interest on balances.....	2 87	\$1,044 03

#### DISBURSEMENTS, 1904.

Andrew J. Stone, salary and expenses in the field....	\$1,033 03	
Freight.....	11 00	\$1,044 03

#### RECAPITULATION.

Total receipts.....	\$15,406 46
Total disbursements.....	15,406 46

JOHN H. WINSER, *Treasurer.*

Correct.—E. L. MASSETT, *Auditor.*

*December 31, 1904.*

*CITY MAINTENANCE ACCOUNT.*

RECEIPTS.

Capital Account, January 1, 1904.....		\$15,000 00
Department of Parks.....	\$160,000 00	
Transfer from General Account to meet deficit.....	8,158 69	
		<u>168,158 69</u>
Interest on Balances.....		120 76

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		<u>\$183,279 45</u>
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Examined and Approved. { ANSON W. HARD,  
 GEORGE G. HAVEN, } *Auditing*  
 GUSTAV E. KISSEL. } *Committee.*

CITY MAINTENANCE ACCOUNT.

DISBURSEMENTS.

Geology and Invertebrate Palæontology . . . . .	\$6,625 84	
Mammalogy and Ornithology . . . . .	7,854 29	
Mineralogy . . . . .	3,240 04	
Vertebrate Palæontology . . . . .	12,386 48	
Archæology . . . . .	6,002 12	
Ethnology . . . . .	7,788 46	
Entomology . . . . .	2,480 03	
Invertebrate Zoölogy . . . . .	7,064 66	
Physiology . . . . .	701 45	
Library . . . . .	9,098 42	
Preparation and Exhibition . . . . .	13,253 17	
General Supplies and Expenses . . . . .	5,688 36	
Heating and Lighting . . . . .	22,860 69	
Repairs and Installation . . . . .	19,079 46	
Administration . . . . .	<u>44,035 22</u>	\$168,158 69
Interest on Balances transferred to General Account . . . . .		120 76
Cash on hand December 31, 1904 . . . . .		15,000 00
		<u>\$183,279 45</u>

[E. & O. E.]  
NEW YORK, December 31, 1904.

CHARLES LANIER, *Treasurer.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

GENERAL ACCOUNT.

RECEIPTS.

Cash on hand January 1, 1904.....		\$2,807 86
Interest on Permanent Endowment.....	\$35,145 00	
Interest on Credit Balances.....	400 04	
Commissioner of Education (State of New York)...	11,338 79	
Patron: Robert Walton Goelet.....	1,000 00	
Life Members:		
Hiram W. Sibley.....	\$100 00	
Richard F. Williams.....	100 00	
George A. Treadwell.....	100 00	
Herbert L. Satterlee.....	100 00	
I. E. Gates.....	100 00	
Henry Iden.....	100 00	
J. H. Parker.....	100 00	
L. Harding Rogers, Jr.....	100 00	
Ernest K. Adams.....	100 00	
V. Everit Macy.....	100 00	
Clarence M. Hyde.....	100 00	
Frank G. Bourne.....	100 00	
P. J. Goodhart.....	100 00	
Benjamin P. Davis.....	100 00	
Thomas F. Somers.....	100 00	
John R. Slattery.....	100 00	
George W. Collord.....	100 00	
Nelson Robinson.....	100 00	
George S. Brewster.....	100 00	
Mrs. P. Hackley Barhydt.....	100 00	
S. M. Lehman.....	100 00	
Carl Upmann.....	100 00	
Samuel Elliott.....	100 00	
James R. Steers.....	100 00	
	2,400 00	
Annual Members.....	13,980 00	
Morris K. Jesup, gift.....	5,000 00	
Henry F. Osborn, for support of the Department of Vertebrate Paleontology.....	2,000 00	
Admission Fees.....	1,278 75	
Sale of Specimens and Rebates.....	2,689 42	
Sale of Publications.....	509 44	
Collecting Permits.....	16 00	
From a friend.....	40 00	
	75,797 44	
	\$78,605 30	

Examined and Approved. { ANSON W. HARD,  
                                  GEORGE G. HAVEN, } Auditing  
                                  GUSTAV E. KISSEL. } Committee.

*GENERAL ACCOUNT.*

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$642 38	
Mammalogy and Ornithology.....	10,761 45	
Mineralogy.....	440 57	
Vertebrate Palæontology.....	8,975 27	
Archæology.....	1,227 63	
Ethnology.....	6,824 06	
Entomology.....	253 31	
Invertebrate Zoölogy.....	1,500 27	
Library.....	4,432 11	
Department of Public Instruction.....	11,462 60	
Preparation and Exhibition.....	1,641 94	
Publications.....	12,424 45	
General Supplies and Expenses.....	6,186 37	
Endowment and Investment Account:		
Transfer to Permanent Endowment for the		
purchase of bonds.....	1,461 39	
City Maintenance Account:		
Transfer to this account to balance deficit.....	8,158 69	
Interest on Loans and Overdrafts.....	110 23	
		<u>\$76,502 72</u>
Cash on hand December 31, 1904.....		2,102 58

\$78,605 30

[E. & O. E.]

CHARLES LANIER, *Treasurer.*

NEW YORK, *December 31, 1904.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT AND INVESTMENT ACCOUNT.

RECEIPTS.

MAMMALOGY AND ORNITHOLOGY:		
North American Ornithology Fund:		
Balance from 1903.....	\$1,010 89	
John L. Cadwalader.....	500 00	
Mrs. Harriet L. Schuyler.....	200 00	
Henry Clay Pierce.....	500 00	
H. B. Hollins.....	250 00	
F. Aug. Schermerhorn.....	250 00	
James C. Carter.....	250 00	
Henry W. Poor.....	500 00	
		\$3,460 89
MINERALOGY AND CONCHOLOGY:		
Frederick A. Constable, gift.....	\$100 00	
Edward D. Adams, gift.....	252 00	
Matilda W. Bruce Fund.....	508 34	
		860 34
VERTEBRATE PALEONTOLOGY:		
Wm. C. Whitney Fund, balance from 1903....	\$641 12	
Pampean Collection of Fossils:		
Balance from 1903.....	\$555 52	
A. C. James.....	200 00	
	755 52	1,396 64
ARCHÆOLOGY:		
Delaware Valley Research; Dr. Fred'k E. Hyde.	\$300 00	
Hyde Exploration Fund; B. T. Babbitt Hyde..	1,200 00	
International Congress of Americanists, balance.	1,620 75	
Folk Ceramic Fund.....	708 01	
		3,828 76
ETHNOLOGY:		
Ethnological Research Fund.....	86 65	
Wm. Demuth Collection of Pipes.....	273 52	
Berlin North American Fund.....	400 00	
		760 17
ENTOMOLOGY:		
Hoffman Entomological Fund—Samuel V. Hoffman.....		550 00
FORESTRY:		
Mrs. C. P. Huntington Fund, balance from 1903		124 33
INTERNATIONAL GEOGRAPHICAL CONGRESS:		
Morris K. Jesup.....		200 00
<b>Total receipts for the development of specific departments.....</b>		<b>\$11,181 13</b>
PERMANENT ENDOWMENT:		
Bequest of Solomon Loeb.....	\$5,000 00	
Charles Lanier.....	2,000 00	
Mrs. John B. Trevor.....	5,000 00	
H. O. Havemeyer.....	25,000 00	
Frederick A. Constable.....	2,000 00	
Cleveland H. Dodge.....	1,000 00	
Wm. Rockefeller.....	10,000 00	
Percy R. Pyne.....	2,500 00	
Morris K. Jesup.....	200,000 00	
J. Pierpont Morgan.....	300,000 00	
George S. Powdoin.....	5,000 00	
Miss Matilda W. Bruce.....	10,800 00	
Redemption of bond.....	1,050 00	
Transfer from General Account.....	1,461 39	
		\$570,811 39
INTEREST ON CREDIT BALANCES:		
Earnings to December 31, 1904.....		279 28
		<u>\$582,271 80</u>

Examined and Approved. { ANSON W. HARD,  
GEORGE G. HAVEN,  
GUSTAV E. KISSEL. } Auditing Committee.

ENDOWMENT AND INVESTMENT ACCOUNT.

DISBURSEMENTS.

MAMMALOGY AND ORNITHOLOGY:		
North American Ornithology Fund.....		\$3,117 00
MINERALOGY AND CONCHOLOGY:		
Frederick A. Constable, gift.....	\$100 00	
Edward D. Adams, gift.....	252 00	
Matilda W. Bruce Fund.....	118 00	
		470 00
VERTEBRATE PALÆONTOLOGY:		
Wm. C. Whitney Fund.....	\$641 12	
Pampean Collection of Fossils.....	426 35	
		1,067 47
ARCHÆOLOGY:		
Delaware Valley Research.....	\$300 00	
Hyde Exploration Fund.....	1,200 00	
International Congress of Americanists.....	376 07	
Folk Ceramic Fund.....	708 01	
		2,584 08
ETHNOLOGY:		
Wm. Demuth Collection of Pipes.....	93 85	
Berlin North American Fund.....	276 50	
		370 35
ENTOMOLOGY:		
Hoffman Entomological Fund.....		550 00
INTERNATIONAL GEOGRAPHICAL CONGRESS.....		200 00
<b>Total disbursements for the development of specific departments.....</b>		<b>\$8,358 90</b>
Permanent Endowment.....	570,811 39	
Interest on Credit Balances, transferred to General Account....	279 28	
Cash on hand December 31, 1904.....	2,822 23	\$573,912 90

\$582,271 80

# LIST OF ACCESSIONS, 1904.

## DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

### BY DONATION.

PROF. J. M. CLARKE, Albany, N. Y.

2 Casts of *Hughmilleria*, 2 Casts of *Euryterus*.

MISS ELIZABETH CURTIS, New York City.

1 *Allorisma terminale*, 10 Coal Measure fossils.

WILLIAM DIECKMANN, New York City.

5 Silicified Echinoderms from Old Lüneburg, Hanover.

JOHN K. PRATHER, New York City.

*Monoplura marcida*, *Requiena patagiata*, *Pleurocora texana*—Cre-  
taceous fossils from Texas.

MRS. A. F. W. RAFFENSBERGER, New York City.

4 specimens of *Edriocrinus sacculus*.

### BY EXCHANGE.

250 Specimens of Cincinnati fossils.

### BY PURCHASE.

1 Large boulder of Orbicular Granite.

60 Boxes of Calcite (dogtooth spar).

1 *Endoceras lativentrum*.

1 Block of *Calceola attenuata*.

62 Specimens of fossils.

50 " " fossil sponges.

40 " " Trenton fossils.

353 " " Utica slate fossils.

769 " " Richmond Group fossils.

1328 " " Loraine Group fossils.



DEPARTMENT OF MAMMALOGY AND  
ORNITHOLOGY.

MAMMALS.

BY DONATION.

BARNUM & BAILEY CO., Bridgeport, Conn.

1 Markhor Goat.

PROF. H. C. BUMPUS, New Rochelle, N. V.

1 White-footed Mouse, 1 Meadow Mouse, 1 Canadian Porcupine.

FRANK M. CHAPMAN, Englewood, N. J.

1 Skin and 2 skulls of Florida Squirrels.

DEPARTMENT OF PUBLIC PARKS, New York City.

2 Baboons, 27 Monkeys, 1 Marmoset, 1 Lion, 1 Leopard, 1 Spotted Hyena, 3 Red Foxes, 1 Polar Bear, 1 Badger, 2 Raccoons, 1 Civet Cat, 1 Opossum, 2 Aoudads, 1 Ibex, 1 Nylghau, 1 Zebu, 1 Buffalo, 2 Elks, 1 Mexican Deer, 1 Fallow Deer, 1 Red Deer, 1 Llama, 1 Texas Peccary, 1 Agouti, 1 Canada Porcupine.—Total, 57 specimens received in the flesh.

GEN. J. WATTS de PEYSTER, Tivoli, N. Y.

3 Wolverines, skins; feet of Canada Lynx.

J. F. DOUGHERTY, New York City.

1 Rabbit.

CAPT. G. C. GODFREY, U. S. A.

1 Skull of Fossil Porcupine, from Arizona.

MADISON GRANT, New York City.

1 Mountain Goat, 2 Muskrats, 1 Wood Rat, from British Columbia.

G. S. HADDEN, New York City.

1 Black and Tan Terrier.

HENRY HALES, Ridgewood, N. J.

1 Woodchuck, Mounted. From the collection of John James Audubon.

BRADCROFT HENDERSON, New York City.

1 Jumping Mouse.

HON. W. H. HUNT, U. S. Consul, Madagascar.

1 *Gymnopus nudipes*, 1 *Cryptoprocta ferox*.

DR. JOHNSON, New York City.

1 Spaniel Dog.

MRS. A. KELLY, New York City.

1 Japanese Spaniel Dog.

MARTIN KOCH, New York City.

3 White Rats, living, with young.

W. H. MALCOLM, New York City.

1 European Red Squirrel.

C. A. MOORE, JR., New York City.

1 Mountain Goat, 1 Weasel.

F. MUSTERN, New York City.

1 Gray Squirrel.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Mangabey Monkey, 1 Squirrel Monkey, 1 Entellus Monkey, 1 Slender Lemur, 3 Lions, 1 Snow Leopard, 3 Arctic Foxes, 2 Grizzly Bears, 1 Florida Black Bear, 1 Japanese Bear, 1 Sloth Bear, 5 Harbor Seals, 1 Sea Lion, 1 Gymnopus, 2 Aoudads, 1 Burrhel Sheep, 1 Punjab Sheep, 1 Chamois Goat, 1 Pronghorned Antelope, 1 Blackbuck Antelope, 1 Caribou, 1 Elk, 1 Sambur Deer, 1 Sika Deer, 1 Mexican Deer, 1 Zebra, 2 Vicuñas, 1 Rabbit, 1 Florida Manatee.—Total, 39 specimens, received in the flesh from the New York Zoological Society and the New York Aquarium.

J. T. NICHOLS, Napeaque, L. I.

2 White-footed Mice.

CAPT. WIRT ROBINSON, U. S. A., Fort Totten, N. Y.

2 Cuban Bats.

JOHN ROWLEY, Hastings-on-Hudson, N. Y.

1 Kit Fox.

E. T. SETON, Cos Cob, Conn.

2 Snowshoe Rabbits, 1 Chipmunk.

F. A. SCIINEIDER, Brooklyn, N. Y.

1 Short-tailed Shrew, 1 White-footed Mouse.

G. H. STORK, New York City.

2 Kamchatka Sheep skulls, 1 Kamchatka Bear skull.

GERALD H. THAYER, Dublin, N. H.

1 Porcupine, 1 Monkey, from Trinidad.

RUDOLPH VOHL, New York City.

1 Great Dane.

#### BY EXCHANGE.

66 Specimens from Paraguay; 56 from South Carolina.

#### BY PURCHASE.

656 Specimens from Colombia; 55 from Venezuela; 30 from other localities.

#### THROUGH MUSEUM EXPEDITIONS.

##### MEXICAN EXPEDITION.

115 Specimens from Lower California; 792 from the State of Sinaloa, Mexico. Collected by J. H. Batty. They include large series of Deer, Peccaries, Ocelots, Coatis, Raccoons and other large species, as well as of small mammals.

BIRDS.

BY DONATION.

A. B. CARR, Trinidad, B. W. I.

2 Paroquets.

DR. S. AUSTIN DAVIS, Yonkers, New York.

136 Birds from Ecuador.

E. L. DAY, West Line, Pa.

1 Holboëll's Grebe.

BASHFORD DEAN, New York City.

2 Eggs of Japanese Long-tailed Fowl.

E. E. DEFFIS, New York City.

1 Spur-winged Plover.

DEPARTMENT OF PUBLIC PARKS, New York City.

5 Golden Eagles, 4 Bald Eagles, 2 South American Condors, 2 Cockatoos, 2 Parrots, 5 Pheasants (various species), 1 Herring Gull, 1 Swan, 1 Screech Owl, 1 Crow, 1 Magpie.—Total. 25 specimens, received in the flesh from the Central Park Menagerie.

G. A. GOSS and A. D. DODGE, Waterbury, Conn.

18 Birds from Borneo.

L. V. DORRIEN, Bushnellsville, New York.

1 Cooper's Hawk.

WILLIAM DUTCHER, New York City.

1 Starling, 1 Yellow-bellied Green Bulbul, 3 Parrots, 1 Scaled Partridge, 1 Tree Duck, 1 Weaver Bird, 2 Passenger Pigeons, 1 Ivory-billed Woodpecker, 1 Yellow Rail.

DR. JAMES S. ENNIS.

1 Water Thrush, 1 Thrush.

ALBERT FRANK, Hankow, China.

44 Chinese Birds.

A. H. HELME, Miller's Place, L. I.

2 Bob-whites.

DR. THOMAS LAWYER,

1 Nest of Weaver-bird.

NEW YORK STATE GAME WARDEN.

1 Catbird, 1 Bluebird, 1 Pigeon.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Emeu, 1 Adjutant Stork, 3 Young Flamingoes, 1 Reeves's Pheasant, 1 Common Mynah.

J. T. NICHOLS, New York City.

4 Dovekies.

CAPT. WIRT ROBINSON, U. S. A., Fort Totten, N. Y.

1 Hybrid Duck.

E. T. SETON, Cos Cob, Conn.

2 Scaup Ducks, 3 Blue-winged Teals, 5 Canvas-back Ducks, 1 Gad-wall, 1 Red-head Duck, 1 American Robin.

Miss MAUD SPUR.

1 Snow Bunting.

GERALD H. THAYER, Monadock, N. H.

1 Spine-tail, 1 Flycatcher, from Trinidad, B. W. I.

BY EXCHANGE.

6 Specimens, from Dominica and Colombia.

BY PURCHASE.

99 Specimens, from Merida, Venezuela; 3918 from California and Mexico; 714 from Colombia, and a large collection of nests and eggs from Colombia.

THROUGH MUSEUM EXPEDITIONS.

MEXICAN EXPEDITION.

989 Bird skins and 160 nests with eggs.

BAHAMA AND FLORIDA EXPEDITION (North American Bird Group Fund).

149 Birds from Bahamas and Florida; also several nests and sets of eggs.

LOCAL COLLECTING.

23 Birds from New Jersey.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

BY DONATION.

J. PIERPONT MORGAN, New York City.

Ceremonial batons made from horns of the White Rhinoceros.

BY EXCHANGE.

MUSEO NACIONAL, Buenos Aires, Argentina.

Cast of the skull and skeleton of the extinct South American horse, *Hippidium*.

MUSEO DI STORIA NATURALE, Firenze, Italy.

Specimens and casts of fossil horses and other extinct animals of Italy.

MUSEUM OF YALE UNIVERSITY, New Haven, Conn.

Cast of type specimen of a Miocene tapir.

BY PURCHASE.

- Skeleton of the Mammoth, from Jonesboro, Indiana.
- Collection of fossil mammals from the Big Badlands of South Dakota.
- Skull of extinct Walrus from Atlantic City, N. J.
- Six skeletons of modern animals, for comparison with their extinct relatives or ancestors.

THROUGH MUSEUM EXPEDITIONS.

MARINE CRETACEOUS OF SOUTH DAKOTA.

- Fourteen skulls or skeletons of extinct marine reptiles, *Plesiosaurs* and *Mosasaurus*.

MARINE CRETACEOUS OF MONTANA.

- Two skulls of extinct Crocodiles.

LARAMIE CRETACEOUS OF NEW MEXICO.

- Skull of Duck-billed Dinosaur.

EOCENE TERTIARY OF WYOMING.

- 376 Specimens of fossil mammals and 12 of fossil reptiles from the Bridger Basin.

OLIGOCENE TERTIARY OF SOUTH DAKOTA.

- 126 Specimens of fossil mammals and 3 of fossil reptiles from the Big Badlands.

PLEISTOCENE OF ARKANSAS.

- 49 Catalogued specimens and numerous uncatalogued jaws and bones from a fissure or open cave formation.

DEPARTMENT OF ETHNOLOGY.

BY DONATION.

DEUTSCHE ORIENTGESELLSCHAFT, Berlin, Germany.

- Wheat-husks from Egypt.

REV. D. S. DODGE, New York City.

- Navajo rug.

MR. ARCHER M. HUNTINGTON, New York City.

- Specimens illustrating the religious ceremonials of the Maidu Indians, California. Collected by D. L. Spencer.

- Foods and medicines used by Maidu Indians of California. Collected by Roland B. Dixon.

MR. WILLIAM DEMUTH, New York City.

- Collections of pipes and smoking utensils—

- From China. Collected by Dr. Berthold Laufer.

- 3 Cree Indian pipes.

- Pawnee peace-pipes. Collected by Mr. Francis La Flesche.

- Collection of Eskimo pipes.

- LIEUT. G. T. EMMONS, Princeton, N. J.  
Collection of specimens from Alaska.
- MRS. DUNCAN D. McBEAN, New York City.  
1 Basket from Flathead Indians.
- DR. C. F. NEWCOMBE, Victoria, B. C.  
Plaster cast of stone hammer from British Columbia.
- MR. ALFREDO STOCKMAN,  
7 Prints of carvings in stone from Venezuela.
- MR. JAMES HANNAN, New York City.  
Machete in wooden sheath.
- MR. ALFRED C. FARRELL, New York City.  
Set of gambling-sticks from Alaska.
- MR. J. VAN SANTVOORD, New York City.  
Photo of tree-burial in Dakota.
- MR. W. JOCHELSON, Zürich, Switzerland.  
Collection of negatives of the Yakut of eastern Siberia.
- MRS. J. E. DE FOREST, New York City.  
2 Carved gourds from Oaxaca, Mex.
- MISS E. S. ADAM, New York City.  
Pair of moccasins and beaded bag of Sioux Indians.
- M. F. SAVAGE, New York City.  
2 Hair ropes from the Desert of Sahara.
- REV. F. H. CHALFANT, China.  
28 Specimens of Chinese pottery from ancient burials.
- DR. CARL LUMHOLTZ, New York City.  
4 Flutes from Mexico.
- The MISSES SANFORD,  
Specimens from South Sea Islands.
- Estate of DR. THOMAS LAWYER, Cobleskill, N. Y.  
Pair of sandals and neck-ornament from South Sea Islands and Ceylon.
- HISTORICAL ANTIQUARIAN SOCIETY, Schaffhausen, Switzerland.  
7 Prints of ethnological specimens.
- PROF. F. E. LLOYD, New York City.  
1 baho from Arizona.
- PROF. J. DYNELEY PRINCE, New York City.  
1 Ashantee drum from Africa.
- J. PIERPONT MORGAN, JR., London, England.  
Several knob-kerries from Africa.
- ZOOLOGICAL GARDEN, Bronx Park, New York City.  
Alaskan collection.

R. L. MALCOLM, New York City.  
Mats, hippopotamus-tooth, etc., from Africa.

B. LEGRANGE, New York City.  
Chinese coin.

BY EXCHANGE.

LIEUT. G. T. EMMONS, Princeton, N. J.  
Collection of Alaskan baskets.

E. W. DEMING, New York City.  
9 Ethnological specimens from various Indian tribes, and Finn woman's shoes.

GUIMET MUSEUM, Paris, France.  
14 plaster casts of Chinese mirrors.

BY PURCHASE.

Collection of specimens from Alaska.  
Eagle-feather skirt and phonographic record of Indian song from California.

5 Photos of Indians of Copper River, Alaska.

1 Large jade axe from Nome.

Specimens from Congo region.

1 Maori skull.

3 Skulls from Mexico.

Cheyenne collection.

1 Bantu shaman's dress and fetich.

Fetich from Congo region.

Collection of Iroquois specimens from Seneca Reservation.

Yakima parfleche from State of Washington.

10 Ethnographical objects from Russia.

2 Ainu knives from Japan.

2 Ojibwa rabbit-skin blankets.

Ethnological collection from Korea, China.

THROUGH MUSEUM EXPEDITIONS.

Specimens from British Columbia. Collected by George Hunt.

Specimens from the State of Washington and from British Columbia.  
Collected by James Teit.

Collection of specimens illustrating the ceremonials of the Blackfeet.  
Collected by Dr. Clark Wissler.

Specimens from the Uchee. Collected by F. G. Speck.

55 Casts and 125 negatives of natives exhibited at World's Fair, St. Louis (North American Indians, African pygmies, Filipinos, Ainu).

THROUGH EAST ASIATIC EXPEDITION. PROVIDED BY JACOB H. SCHIFF.

Collection from China, including antique bronzes and pottery, household utensils, costumes, pottery, etc. Collected by Dr. Berthold Laufer.

DEPARTMENT OF ARCHÆOLOGY.

BY DONATION.

- DR. MERRIAM GARDNER, Clifton Springs, N. Y.  
Stone celt from Manlius, Onondaga Co., N. Y.
- DR. O. P. HAY, New York City.  
Chipped-stone implement from Leavitt Creek, Wyoming.
- DR. S. A. DAVIS, Yonkers, N. Y.  
Stone *bolts* from Guamate, Ecuador; 2 stone axes from Macás, Ecuador.
- UNIVERSITY OF CALIFORNIA, Berkeley, Cal.  
The Book of the Life of the Ancient Mexicans, a post-Columbian Aztec book.
- DAVID I. BUSHNELL, JR., New York City.  
Clay model of Cahokia Mound, Ill.
- MRS. ROBERT W. DE FOREST, New York City.  
5 Zapotecan funeral urns from Valley of Oaxaca, Mexico.
- CLARENCE B. MOORE, Philadelphia, Pa.  
14 Shell objects from Florida.
- D. A. BARRACKMAN, New York City.  
Piece of copper from Covington, Indiana.
- MRS. CONSTANCE S. MEAD AND FAMILY, New London, Conn.  
Collection of prehistoric pueblo specimens from Socorro, New Mexico.
- FREDERICK HANHAUSEN, New York City.  
Archæological specimens from Shinnecock Hills, Long Island.
- LAMAR CRAWFORD, New York City.  
Archæological specimens from New York State and Virginia.
- J. DOCTOR, New York City.  
Potsherds from Indian village site, Thurlow Township, Hastings Co., Ontario.
- DUKE OF LOUBAT, Paris, France.  
Copy of Codex Magliabecchiano, a post-Columbian Aztec book.
- REV. I. H. BAUSMAN, Rochester, Pa.  
Photograph of Indian rock pictographs, near Smith's Ferry, Beaver Co., Pa.
- C. P. BOWDITCH, Boston, Mass.  
2 Photographs of Mayan sculptures with hieroglyphic inscriptions, from Yucatan.
- NETHERLANDS GOVERNMENT.  
Cast of the "Leiden Plate," a carved jadeite slab, from Guatemala.



MRS. M. ALSBERG, New York City.

Funeral urn with human bones and ashes (pre-Christian era), from Belzig, Brandenburg, Prussia.

PROF. G. T. WILLIAMSON, New Orleans, La.

4 Chipped arrow points from De Soto Parish, La.

ALFRED C. FARRELL, New York City.

Iron spearhead from North Dakota.

PAUL C. MILLER, New York City.

3 Hand stones and 2 metates from Wyoming.

CAPT. WIRT ROBINSON, Fort Totten, N. Y.

6 Arrow'points, stone axe and implement, made by donor.

D. LEATHERDALE, Vancouver, B. C.

Photograph of stone mortar from Vancouver.

PEABODY MUSEUM, Cambridge, Mass.

Photographs of archaeological specimens from Oregon and Washington.

BY EXCHANGE.

FREE MUSEUM OF SCIENCE AND ART, University of Pennsylvania, Philadelphia, Pa.

Casts of two stone objects from Ecuador and Bolivia.

BY PURCHASE.

486 Shell celts; 1 stone celt and 1 potsherd from Barbados, West Indies.

Bauer Archæological collection from Mexico.

Copy of obverse and reverse of ancient Mexican painting on deer skin.

FROM DEPARTMENT OF PREPARATION AND INSTALLATION.

Models of Serpent Mound, Ohio; Fort Ancient, Ohio; Effigy Mounds, Wisconsin; and Cahokia Mound, Illinois.

Various casts of archaeological specimens loaned to the Museum for the purpose of reproduction.

DEPARTMENT OF ENTOMOLOGY.

BY DONATION.

SAMUEL V. HOFFMAN, New York.

3600 Specimens of North American and exotic Lepidoptera.

MRS. A. T. SLOSSON, New York.

A number of Lepidoptera and Hymenoptera from Florida.

DR. HENRY SKINNER, Philadelphia, Pa.

4 Cotypes of *Calopasta wenzeli*.

4 " " *Epicauta alastor*.

- J. RHINELANDER DILLON, New York.  
Nest of Wild Honey-bee (*Apis mellifera*) on branch of a tree.
- OTTO SEIFERT, New York,  
8 specimens of *Arctia proxima*.
- J. R. DE LA TORRE BUENO, New York.  
32 Specimens of Aquatic Hemiptera.
- CAPT. WIRT ROBINSON, Fort Totten, N. Y.  
2 *Pipilo gundlachianus* from Santiago, Cuba.  
1 *Hypna iphigenia*.  
A few beetles.
- J. H. M. COOK, New York.  
An observation hive with swarm of Italian honey-bees.
- WILLIAM WASSMUTH, Brooklyn, N. Y.  
2 *Saturnia galbina* from Texas.  
1 *Pachnobia manifesta* from Long Island.  
Branches of hickory infested with *Sesia scitula*.
- MISS MAHONEY, New York.  
A few insects from Liberia, Africa.
- CHARLES DURY, Cincinnati, Ohio.  
A number of beetles from Brownsville, Tex.
- DR. G. LAGAI, New York.  
2 *Saturnia anona* from Texas.  
2 Moths from Mexico.
- T. D. A. COCKERELL, Colorado Springs, Col.  
A number of insects from Colorado and New Mexico.
- DR. E. B. SOUTHWICK, New York.  
Galls of *Rhodites radicum*, *Andricus punctatus* and *Pemphigus rhois*.
- F. C. NICHOLAS, New York.  
1 *Plusiotes* from Central America.
- MRS. W. H. STAVEN, Guayaquil, Peru.  
Chrysalis of a butterfly from Peru.
- GEORGE KING, Lawrence, Mass.  
A small collection of Kermes.
- HARRY HARKNESS FLAGLER, Millbrook, N. Y.  
Specimens of *Andricus punctatus*.
- MESSRS. G. A. GOSS and A. D. DODGE, Waterbury, Conn.  
A collection of beetles from Mount Kinabalu, British North Borneo.
- GEORGE LEWIS, San Juancito, Honduras.  
A collection of moths from Honduras.
- MISS LORETTA HERZ, Brooklyn, N. Y.  
1 nest of *Vespa maculata*.

THROUGH MUSEUM EXPEDITIONS.

HOFFMAN BLACK MOUNTAIN EXPEDITION.

2000 Specimens of insects from the Black Mountains, North Carolina.  
Collected by William Beutenmuller.

BY PURCHASE.

250 Diptera and Hymenoptera from Florida.  
A collection of Lepidoptera from Siberia.  
Cocoons of *Attacus orizaba*, *A. jorulla*, *Platysamia cecropia* and  
*Telea polyphemus*.  
A small collection of beetles from Brazil.  
A collection of wasp's nests from Brazil.  
A number of butterflies from Mexico.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.

MINERALOGY.

BY DONATION.

J. H. ADAMS, New York City.

1 Specimen of Titanite.

30 " " Actinolite and Anorthite from Jerome Reservoir,  
New York.

1 Specimen of Twisted Mica from 147th Street and Broadway, New  
York.

AMERICAN GEM AND PEARL CO., New York City.

2 Specimens of Emerald Matrix, from Crabtree Mountain, N. C.

AMERICAN PROSPECTING AND MINING CO., New York City.

7 Specimens of Ruby crystals from Cowee Valley, N. C.

A. F. BANDELIER, New York City.

1 Specimen of Pyrite in Green Slate from Bolivia.

J. H. BATTY, New York City.

3 Specimens of Copper ore from Cedros Island, L. Cal.

ARTHUR BONIFACE, New York City.

1 Specimen of Stilbite from Rapid Transit Tunnel, New York.

Miss MATILDA W. BRUCE, New York City.

1 Specimen of Botryogen from Knoxville, Cal.

1 " " Altaite from Las Cruces, N. M.

F. A. CAMP, New York City.

1 Specimen of Sulphur from Durango, Mexico.

CHISAS MINING CO., Texas.

1 Specimen of Cinnabar from Terlingua, Texas.

WM. H. CRANE, New York City.

1 Specimen of Amblygonite, 2 specimens of Lepidolite, 1 specimen  
of Tourmaline, from Palo, California.

- G. ROSS DEFENDORF, New York City,  
2 Specimens of Slate from Granville, Canada.
- DR. D. BRYSON DELAVAN, New York City.  
4 Specimens Blue Agate, 1 specimen of Carnelian Agate, 1 specimen of Aventurine, all spheres.
- SAMUEL W. FAIRCHILD, New York City.  
3 Specimens of Chrysotile from near Williams, Arizona.
- E. M. FIELD, JR., New York City.  
4 Specimens of Magnochromite from 35 miles W. Baracoa, Cuba.  
1 " " Manganese from Manzanilla, Cuba.  
1 " " Chromite from 30 miles E. Matanzas, Cuba.
- J. W. GARDNER, New York City.  
1 Specimen of Alum from near Carson City, Nevada.  
1 " " Azurite from Nevada.  
1 " " Diatomaceous Earth from Nevada.
- CHESTER O. HYDE, New York City.  
5 Specimens of Limonitic concretions from New Jersey.  
1 Specimen of Serpentine from Tompkinsville, Staten Island.
- A. JANKOWER, New York City.  
5 Specimens of Rhodolite garnet (uncut) and 1 specimen of Rhodolite (cut), from Cowee Valley, North Carolina.
- MORRIS N. JOHNSON, New York City.  
45 Specimens, comprising Calamine, Galena, Smithsonite, Serpentine, Magnetite, etc.
- GEORGE F. KUNZ, New York City.  
1 Specimen of Thorianite (25 grains), from Ceylon.  
1 " " Hamlinite (10 grains), from Brazil.  
1 " " Californite, var. Idocrase, Yreka, Cal.
- MAJESTIC COPPER MINING AND SMELTING CO., of Utah.  
1 Specimen Copper ore (995 lbs.), from O. K. Mine.
- JOHN J. MOORE, New York City.  
1 Specimen of Opal, mounted.
- J. PIERPONT MORGAN, New York City.  
1 Specimen of Gold, from Rosario Mine, Sinaloa, Mexico.
- B. NANHEIN, New York City.  
1 Specimen of Oyster Pearl, from Long Island Sound, N. Y.
- LOUIS W. NIENDORFF, New York City.  
4 Specimens of Cassiterite from Cape Prince of Wales, Alaska.
- NORTH CAROLINA GARNET CO., Brooklyn, N. Y.  
1 Specimen of Almandine Garnet from Madison Co., N. C.
- GEO. F. PEPPER, New York City.  
1 Specimen of Polybasite from Silver Plume, Colorado.
- FRANK A. SALMONS, Palo, California.  
3 Specimens of Green Tourmaline from San Diego Co., Cal.

E. D. SHUSTER, Franklin Furnace, N. J.

1 Specimen of Yellow Willemite from New Jersey.

T. S. TODD & CO., New York City.

4 Specimens of Carnotite from Placerville, Colorado.

ERNEST VOLK, Trenton, N. J.

1 Specimen of Limonite from Johannesburg, Saxony.

M. F. WESTOVER, Schenectady, N. Y.

3 Specimens of Phlogopite from Ontario, Canada.

BY EXCHANGE.

2 Specimen of Rock-salt (cut), from Galicia.

I " " Quartz, from Sonora, Mexico.

I " " Argentite, from Sonora, Mexico.

I " " Para Melaconite, from Bisbee, Arizona.

I " " Tetrahedrite, from near Casapolca, Peru.

I " " Realgar, " " "

I " " Linarite, " " "

I " " Chromite, from New Caledonia.

I " " Genthite, from Ghemelik, Asia Minor.

I " " Pectolite, from West Paterson, N. J.

I " " Stilbite, " " " "

BY PURCHASE.

I Specimen of Calaverite (roasted), from Cripple Creek, Col.

I " " Gypsum, from Eisleben, Saxony.

I " " Columbite, from near Cañon City, Col.

I " " Stibiotantalite, from West Australia.

I " " Tantalite, " " "

I " " " " " "

I " " Coloradoite, from Kalgoorlie, Australia.

I " " Kalgoorlite, " " "

I " " Calaverite, " " "

I " " Halite, from Sztatina, Hungary.

I " " Dyscrasite, with silver, from New South Wales.

I " " Anapaite, from Anapa.

I " " Bindheimite, from Silver City, South Dakota.

I " " Smoky quartz, from Delaware Co., Pa.

I " " Gold conglomerate, from Johannesburg, Transvaal.

I " " Muscovite, from Keystone, South Dakota.

I " " Jamesonite, from Silver City, South Dakota.

4 " " Amethystine Calcite, from Joplin, Mo.

I " " Green Fluorite, from New Hampshire.

I " " Wulfenite, with Ekdemite, from Pinal Co., Arizona.

I " " Tennantite, from Idaho Springs, Colorado.

I " " Calcite, from Joplin, Mo.

I " " Large calcite, from Joplin, Mo.

## CONCHOLOGY.

## BY DONATION.

- J. H. BATTY, New York City.  
2 Specimens of *Monoceras lugubre* Lamb, from West Coast.
- Miss ELIZABETH S. BRICE, New York City.  
2 Specimens of *Melo*.  
2 Specimens of *Cassis*.
- T. D. A. COCKERELL, Colorado Springs, Col.  
2 Specimens of *Arion fasciatus* Nils., from Niagara Falls, N. Y.
- F. A. CONSTABLE, New York City.  
An extension series of Japanese shells, comprising 44 genera and 357 species.
- Miss MINNA HINKEL, New York City.  
14 Specimens of *Hyalea tridentata*, from Long Island, N. Y.
- Estate of DR. THOMAS LAWYER, Cobleskill, N. Y.  
About 1,500 specimens of Marine and Land Shells, embracing Gasteropods and Lamellibranchs, unnamed and without locality.
- WILLIAM C. METCALFE,  
200 Specimens of *Marginella apicina* Mke, from Florida.  
1 Specimen of *Cypræa spadicea* Linn, from Lower California.
- SLOMAN ROUSS, Brooklyn, N. Y.  
2 Specimens of *Helix (Coryda) alauda* Fer., from Cuba.
- ALBERT H. STORER, New York City.  
An extensive collection of Marine and Land Shells, containing 946 species and 7,194 specimens.

## BY EXCHANGE.

- 20 Specimens of *Ennea*, 5 species, mostly from Mauritius.  
2 " " *Laoma marina* Hutt, from Wainku, N. Z.  
3 " " *Chirspa juloidea* Forbes, from Tasmania.  
6 " " *Clausilia variegata* A. Ad., from Hirado Hiren.  
3 " " *Flammulina ditta* Pfr.  
3 " " *Endodonta coma* Gray, from Wainku, N. Z.  
3 " " " *tasmaniae* Cox, from Tasmania.  
137 Specimens, 53 species, from Japan.

## BY PURCHASE.

- 14 Specimens of *Cypræa decipiens* Smith, from Australia.  
2 " " *Conus infrenatus* Rv., from Cape of Good Hope.  
1 " " *Fasciolaria gigantea* Kien, from Key West.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

INVERTEBRATES.

BY DONATION.

- MISS A. M. BOND, New Canaan, Conn.  
1 Glass Sponge (*Euplectella*).
- MR. BONWILL, New York City.  
A collection of Sea-urchins and Scallop Shells.
- WILLIAM T. DAVIS, New York City.  
9 Sponges.
- MRS. J. A. BRITCHER, Syracuse, N. Y., PROF. GILMAN A. DREW, Orono, Maine, and PROF. MAYNARD H. METCALF, Baltimore, Md.  
A collection of Spiders, made in different parts of the United States by the late Horace Britcher, together with all his notes on the specimens.
- COLUMBIA UNIVERSITY, New York City (through the kindness of Dr. Bashford Dean).  
5 Species of Brachiopoda.  
1 Specimen of *Polypterus bichir*.
- MUNIA HINKEL, New York City.  
1 *Limulus polyphemus*.
- J. F. JORDAN, New York City.  
1 Oyster "set" on old rubber shoe.
- CHARLES H. KNOX, New York City.  
1 *Madrepora palmata*, from Barbados.
- F. L. LACY, New York City.  
2 Brittle Starfish from Penobscot Bay.
- FRANCIS W. LEGGETT, New York City.  
2 Specimens of the singular Japanese Crab (*Dorippe japonica*).
- MRS. LOBENSTINE, New York City.  
Various Invertebrates.
- PROF. T. H. MONTGOMERY, Austin, Texas.  
3 Species of Hairworms (Gordiaceæ).
- B. F. PALMER, Sound Beach, Conn.  
Oyster "sets" on canvas, bottle, sea-weed and shells, from Sound Beach, Conn.
- C. M. SEIBERT, New York City.  
1 *Limulus polyphemus* from Huntington Bay, L. I.

MR. ALBERT H. STORER, New York City.

Various Invertebrates.

JAMES TALCOTT, JR., and HOOKER TALCOTT, New York City.

1 Scorpion, 1 Spider, 1 Scolopendra.

F. W. WAMSLEY, Woods Hole, Mass.

1 Sea-anemone.

DR. W. M. WHEELER, Bronxville, N. Y.

1 Lot Gastrocanthid Spiders and Phalangids from Kenedy, Texas.

1 Lot Trombidium from Alice, Texas.

3 Scorpions and 3 Solifugids from Manitou, Colo.

BY EXCHANGE.

47 Species of Cœlenterata from the coast of Ireland.

BY PURCHASE.

A collection of Madagascar Formicide (373 specimens representing 83 species).

A collection of marine invertebrates from Woods Hole and Vicinity.

A collection of 10 large Florida Sponges.

4 Species of Myxinoids and a specimen of the giant Hydroid (*Branchiocerianthus imperator*) of Japan.

1 Sectional model of a Mole's Fortress.

1 *Sphenodon punctatus* skeleton.

A Collection of Paraguayan Fishes.

4 Specimens of *Sphenodon punctatus*.

REPTILES AND BATRACHIANS.

BY DONATION.

DEPARTMENT OF PARKS, New York City.

6 Boas.

R. L. DITMARS, New York City.

14 Snakes from the Southern States and New York.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

Through New York Aquarium.

1 Leatherback Turtle.

MRS. AUGUST SCHMIDT, New York City.

1 Stuffed Alligator.

JAMES TALCOTT, JR., and HOOKER TALCOTT, New York City.

1 Horned Toad.

DR. F. THAYER, Riverhead, L. I.

1 *Amblystoma tigrinum* from Riverhead, L. I.



FISHES.

BY DONATION.

FRANK CROWELL, New York City.

1 Stuffed Sawfish.

CHARLES STEWART DAVISON, New York City.

2 Fishes (male and female Capelin).

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

Through New York Aquarium.

3 Sharks.

THE BOHEMIAN FISHING CLUB "SOKOL," New York City.

1 Smooth-puffer or Rabbit-fish (*Lagocephalus lavigatus*).

THROUGH MUSEUM EXPEDITIONS.

A collection of Sponges, Corals, Echinoderms, Mollusks and Worms, made in the Florida Keys and Bahamas (New Providence and Andros Islands) by Dr. B. E. Dahlgren and Dr. W. M. Wheeler.

A collection of Arachnida, Land-shells, Ants and other Insects, made by Dr. W. M. Wheeler in the same regions.

A fine specimen of *Pectinatella magnifica* collected near Yonkers, N. Y.

A collection of Marine Invertebrates, made by Mr. G. H. Sherwood on the Maine coast.

A collection of salted Reptile Skins, Dried Skins and Crabs, made by Mr. J. H. Batty.

3 Barrels of salted Reptile Skins; 1 barrel salted Crabs and Lizards; 73 bottles of Reptiles (alcoholic) and a number of Scorpions, Spiders, Entozoa and Ants from Escuinapa, Sinaloa, Mexico. Collected by Mr. J. H. Batty.



# 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 and recreation.

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



# 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 con-

tinuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

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

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



grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

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

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

In presence of  
D. PORTER LORD.

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

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

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

SEAL  
of the American  
Museum of  
Natural History

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

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

[SEAL.]

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

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

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

[SEAL.]

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

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

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

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

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

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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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, shall be the Trustees to manage the affairs, property and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee, unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall

issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

#### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President and a Treasurer, all to be elected from 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, a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year, or until their successors shall be elected.

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

#### ARTICLE V.

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

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and of 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 directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

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

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

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

## ARTICLE VI.

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four and five years, respectively, and the terms for which those drawing the two, three, four and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property

of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

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

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

#### ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name, and to take all proper measures to provide means for its support; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

#### ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

ARTICLE X.

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

ARTICLE XI.

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

ARTICLE XII.

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

ARTICLE XIII.

The contribution of \$1,000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

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

ARTICLE XIV.

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

ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.



## BY-LAWS.

### I.

Patrons giving \$1,000 are each entitled to one 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 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and 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 Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

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

### III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

### IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum,

except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

## V.

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.

## VI.

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.

## VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VIII.

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

# CONSTRUCTION AND INSTALLATION OF A NEW HEATING AND LIGHTING PLANT.

## LEGAL ENACTMENTS OF 1902.

BY THE BOARD OF ALDERMEN.

AN ORDINANCE to provide for an issue of Corporate Stock in the sum of two hundred thousand dollars (\$200,000) the proceeds to be used to provide means for the construction and installation of a new heating and lighting plant for the American Museum of Natural History, in the Borough of Manhattan.

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

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment June 13, 1902, authorizing 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 amended Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of bonds to an amount not exceeding two hundred thousand dollars (\$200,000), for the purpose of providing means to pay for the construction and installation of a new heating and lighting plant for the American Museum of Natural History in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York in the manner provided by Section 160 of the Greater New York Charter, as amended by Chapter 563 of the Laws of 1902, to an amount not exceeding two hundred thousand dollars (\$200,000), the proceeds thereof to be applied to the purposes aforesaid.”

Adopted by the Board of Aldermen July 22, 1902, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 30, 1902. (Signed) P. J. SCULLY, *Clerk.*

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Contracts awarded to December 31, 1903.

For the Erection and Completion of a New Wing for a New Heating, Power and Electric Light Plant, for the American Museum of Natural History.

Contract awarded Thomas Cockerill & Son, May 18, 1903, \$184,500.

## APPROPRIATION AND EXPENDITURES MADE THEREFROM TO DECEMBER 31, 1904.

APPROPRIATION:

By Direct Appropriation.....	\$200,000 00
By Premium on Bond Sales.....	1,136 10

Total.....	\$201,136 10
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EXPENDITURES:

To Thomas Cockerill & Sons.....	\$189,299 00	
Charles Volz.....	9,513 54	
Engineers Park Department.....	260 39	
J. Cockerill.....	972 00	200,044 93

Balance January 1, 1905.....		\$1,091 17
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# FOR THE COMPLETION OF THE CONSTRUCTION OF THE UNFINISHED PORTIONS OF THE BUILDING.

## LEGAL ENACTMENTS OF 1903.

BY THE BOARD OF ALDERMEN.

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred and eighty-eight thousand dollars (\$188,000), to provide means for the completion of the construction of the unfinished portions of the American Museum of Natural History Building in the Borough of Manhattan.

Be it ordained by the Board of Aldermen of the City of New York, as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution, adopted by the Board of Estimate and Apportionment May 8, 1903, and authorizes the Comptroller to issue Corporate Stock of the City of New York to the amount and for the purposes therein specified:

*Resolved*, That, pursuant to the provisions of Section 47 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred and eighty-eight thousand dollars (\$188,000) to provide means for the completion of the construction of the unfinished portions of the American Museum of Natural History Building in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by Section 169 of the Greater New York Charter, to an amount not exceeding one hundred and eighty-eight thousand dollars (\$188,000), the proceeds whereof shall be applied to the purposes aforesaid."

Adopted by the Board of Aldermen June 16, 1903, a majority of all the members elected voting in favor thereof.

Approved by the Mayor June 22, 1903. (Signed) P. J. SCULLY, *Clerk*.

Contracts awarded to December 31, 1903.

For the Completion and Construction of Entrance Hall and Toilets, Changes, to Elevator, Steam, Water and Electric Works, New Steam Mains and Construction of Rooms for Teachers for the American Museum of Natural History.

Contract awarded Louis Wechsler, November 18, 1903, \$92,500.

## APPROPRIATION AND EXPENDITURES MADE THEREFROM TO DECEMBER 31, 1904.

### APPROPRIATION:

By Direct Appropriation.....	\$188,000 00
By Premium on Bond Sales.....	415 65
Total.....	\$188,415 65

### EXPENDITURES:

To Louis Wechsler.....	\$92,654 00	
Traitel Bros.....	20,100 00	
Elias Lyman.....	6,310 00	
Holbrook Bros.....	295 60	
American Lumber Co.....	367 10	
Pittsburgh Plate Glass Co.....	240 56	
McKesson & Robbins.....	110 73	
Myer Bros.....	48 25	
Museum Orders.....	7,524 88	
Charles Volz.....	5,041 56	133,592 68
Balance January 1, 1905.....		\$54,822 97

## PATRONS.

MORRIS K. JESUP.  
 ROBERT L. STUART.\*  
 Miss C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.\*  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.  
 HUGH AUCHINCLOSS.\*  
 JOSEPH W. DRENEL.\*  
 WILLIAM E. DODGE, 1st.\*  
 JOHN D. WOLFE.\*  
 ABRAM S. HEWITT.\*  
 C. VANDERBILT.\*  
 J. PIERPONT MORGAN.  
 CHARLES LANIER.  
 D. JACKSON STEWARD.\*  
 EDWARD CLARK.\*  
 A. G. PHELPS DODGE.  
 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHOENIX.\*  
 BENJAMIN H. FIELD.\*  
 WILLIAM T. BLODGETT.\*  
 OLIVER HARRIMAN.\*  
 ROBERT BONNER.\*  
 JAMES B. COLGATE.\*  
 ALEXANDER STUART.\*  
 WILLIAM A. HAINES.\*  
 BENJAMIN AYMAR.\*  
 RICHARD ARNOLD.\*  
 JOSEPH H. CHOATE.  
 JONATHAN THORNE.\*  
 Miss PHEBE ANNA THORNE.  
 D. O. MILLS.  
 JOHN A. C. GRAY.\*  
 HEBER R. BISHOP.\*  
 CHAS. G. LANDON.\*  
 WILLIAM E. DODGE, 2d.\*  
 PETER COOPER.\*  
 WILLIAM H. ASPINWALL.\*  
 B. H. HUTTON.\*  
 J. TAYLOR JOHNSTON.\*

D. N. BARNEY.\*  
 I. N. PHELPS.\*  
 JAMES STOKES.\*  
 D. WILLIS JAMES.  
 EDWARD MATTHEWS.  
 WILLIAM T. GARNER.\*  
 JAMES LENOX.\*  
 A. H. BARNEY.\*  
 COLEMAN T. ROBINSON.\*  
 BENJAMIN B. SHERMAN.\*  
 JAMES R. ELY.  
 JONAS G. CLARK.\*  
 JOHN ANDERSON.\*  
 JOHN JACOB ASTOR.\*  
 WILLIAM WALDORF ASTOR.  
 CATHERINE L. SPENCER.\*  
 JAS. GORDON BENNETT.  
 CYRUS W. FIELD.\*  
 ALEX. H. BROWN, M. P.  
 J. A. BOSTWICK.\*  
 FREDERICK BILLINGS.\*  
 Mrs. ROBERT L. STUART.\*  
 JESSE SELIGMAN.\*  
 THEO. ROOSEVELT.  
 OSWALD OTTENDORFER.\*  
 J. HAMPDEN ROBB.  
 J. F. LOUBAT.  
 H. J. JEWETT.\*  
 WM. D. SLOANE.  
 D. G. ELLIOT.  
 Lieut. G. T. EMMONS, U. S. N.  
 C. P. HUNTINGTON.\*  
 GEO. W. VANDERBILT.  
 EDWARD D. ADAMS.  
 WILLIAM C. SCHERMERHORN.\*  
 JOHN J. CROOKE.  
 HENRY SELIGMAN.  
 RICHARD T. WILSON.  
 JOHN E. PARSONS.  
 FRANCIS O. MATTHIESSEN.\*  
 A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
 M. C. D. BORDEN.  
 ARCHIBALD ROGERS.

\* Deceased.

GEORGE C. COOPER.\*  
 MRS. M. SCHUYLER ELLIOT.  
 APPLETON STURGIS.\*  
 THEODORE A. HAVEMEYER.\*  
 WILLIAM C. WHITNEY.\*  
 GEORGE G. HAVEN.  
 JAMES BAKER SMITH.\*  
 CYRUS W. FIELD, JR.\*  
 JAMES ANGUS.\*  
 HENRY VILLARD.\*  
 DR. WM. PEPPER.\*  
 AUSTIN CORBIN.\*  
 ANSON W. HARD.  
 GUSTAV E. KISSEL.  
 ELBRIDGE T. GERRY.  
 DR. EDGAR A. MEARNS, U. S. A.  
 JOHN D. CRIMMINS.  
 MRS. WM. H. OSBORN.\*  
 HENRY FAIRFIELD OSBORN.  
 JONATHAN THORNE.  
 VICTOR CORSE THORNE.  
 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 W. M. DONGAN DE PEYSTER.  
 HICKS ARNOLD.\*  
 J. PIERPONT MORGAN, JR.  
 WM. CHURCH OSBORN.  
 ALEXANDER I. COTHEAL.\*  
 WM. ROCKEFELLER.  
 B. T. BABBITT HYDE.  
 FREDERICK E. HYDE, JR.  
 L. P. DI CESNOLA.\*  
 GEORGE DEXTER BRADFORD.\*  
 HENRY O. HAVEMEYER.  
 A. D. JUILLIARD.  
 DR. FREDERICK E. HYDE.  
 MRS. JOHN B. TREVOR.  
 WM. SCHAUS.

JOHN B. MARCOU.  
 PHILLIPE MARCOU.  
 GEORGE T. BLISS.\*  
 GEORGE A. HEARN.  
 MRS. MORRIS K. JESUP.  
 DR. ELIZABETH M. STURGIS.  
 FREDERICK A. CONSTABLE.  
 CHARLES M. JESUP.  
 PERCY R. PYNE.  
 EDWIN H. WEATHERBEE.  
 SUSAN DWIGHT BLISS.  
 GEORGE S. BOWDOIN.  
 JOHN L. CADWALADER.  
 MRS. C. P. HUNTINGTON.  
 ARCHER M. HUNTINGTON.  
 GEORGE FOSTER PEABODY.  
 JOHN D. ROCKEFELLER.  
 JOHN D. ROCKEFELLER, JR.  
 JACOB H. SCHIFF.  
 REV. RODERICK TERRY, D. D.  
 JOHN T. TERRY, JR.  
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 Byrne, John  
 Caesar, H. A.  
 Calhoun, Henry W.  
 Calman, Henry L.  
 Cameron, W. L.  
 Cammann, H. H.  
 Cammann, Miss I. M.  
 Campbell, John  
 Cannon, H. W.  
 Cardozo, Michael H.  
 Carey, H. T.  
 Carlebach, Emil  
 Carleton, Mrs. G. W.  
 Carr, Alfred  
 Carse, John B.  
 Carter, James C.  
 Carter, Samuel T.  
 Carton, Andrew B.  
 Carey, A. L.  
 Case, Charles L.  
 Cass, F. C.  
 Cassard, William J.  
 Castree, John W.  
 Caswell, John H.  
 Cathcart, Miss Jennie R.  
 Chambers, Frank R.  
 Chambers, James  
 Champion, Chas. Perry  
 Chapman, Clarence E.  
 Chesebrough, Robert A.  
 Chew, Beverly  
 Chichester, Chas. F.  
 Chilton, H. P.  
 Chisolm, George E.  
 Choate, Wm. G.  
 Christie, R. E.  
 Chubb, Percy  
 Church, Charles B.  
 Church, Edward W.  
 Church, Theo. W.  
 Clallin, John  
 Clancy, John J.  
 Clark, Cyrus  
 Clark, D. Crawford  
 Clark, Edward S.  
 Clark, George C.  
 Clark, Julian B.  
 Clark, Norman F.  
 Clark, W. A.  
 Clark, William N.  
 Clarke, George C.  
 Clarke, Thomas B.  
 Clarke, Thomas Shields  
 Clarkson, Miss Annie

- Cleveland, Clement  
 Clinch, Edward S.  
 Clese, Walter H.  
 Clown, Robert C.  
 Clyde, William P.  
 Coates, W. J., M. D.  
 Cochrane, John W.  
 Cockran, W. Bourke  
 Coffin, Edmund  
 Coffin, I. Sherwood  
 Coggshall, Edwin W.  
 Cohen, Samuel M.  
 Cohn, Isaac M.  
 Cohn, Dr. Louis  
 Colburn, N. A.  
 Colby, Howard A.  
 Cole, Mrs. Hugh L.  
 Colgate, R. R.  
 Collier, Price  
 Collins, Miss Ellen  
 Comstock, Albert  
 Condit, William L.  
 Condon, Thomas G.  
 Conger, Henry C.  
 Conklin, Roland R.  
 Cook, Chas. T.  
 Cook, Austin  
 Cortes, Benjamin F.  
 Corwell, R. R.  
 Cornug, Christopher R.  
 Costello, Alfred  
 Costello, P. C.  
 Cowles, David S.  
 Cox, C. F.  
 Crawford, R. L.  
 Crawford, Thomas  
 Crocker, George Aug.  
 Cromwell, Benjamin F.  
 Cromwell, James W.  
 Cromwell, Lincoln  
 Cross, George D.  
 Cross, Richard J.  
 Cruickshank, James  
 Cushman, Joseph F.  
 Cumming, Peter  
 Cummings, George F.  
 Cummings, Richard  
 Curie, Charles  
 Currier, G. C.  
 Curtis, Charles B.  
 Curtis, Warren  
 Cutter, Ralph L.  
 Cutting, Robt. Fulton  
 Cutting, W. Bayard  
 Dailv, George M.  
 Dalley, Henry  
 Dava, Wm. B.  
 Daniels, George H.  
 Davies, Francis H.  
 Davies, William G.  
 Davis, Charles H.  
 Davis, Mrs. Howland  
 Davis, Joseph P.  
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 De Bary, A.  
 De Buys, A.  
 de Coppet, Henry  
 Deeves, Richard  
 de Forest, Robert W.  
 de Forest, Mrs. Robt. W.  
 Degener, John F.  
 De Klyn, B. F.  
 Delafield, Maturin L.  
 Delano, Jr., Warren  
 Delavan, D. B., M. D.  
 de Mehaud, Louis J.  
 Demorest, Wm. C.  
 Denham, William R.  
 Dennis, James S.  
 Dennis, John B.  
 Denny, Thomas  
 de Peyster, C. Augusta  
 de Peyster, Elizabeth V. R.  
 Derby, Richard H.  
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 Despard, Walter D.  
 De Vinne, Theo. L.  
 De Witt, George G.  
 De Witt, Mrs. Thos. D.  
 Dewitt, William G.  
 Dexter, Henry  
 Diehman, Ernest  
 Dickerman, W. B.  
 Dickey, Charles D.  
 Dickie, E. P.  
 Diefenthaler, Charles E.  
 Diestel, Wm.  
 Dieterich, Chas. F.  
 Dill, Miss Mary A.  
 Dillon, John M.  
 Dimock, George E.  
 Dimock, Henry F.  
 Dimond, Thomas  
 Dix, Rev. Morgan, D. D.  
 Dodd, S. C. T.  
 Dodge, Rev. D. Stuart  
 Dodge, Miss Grace H.  
 Dodge, Guy Phelps  
 Dodge, Mrs. Wm. E.  
 Doelger, Jr., Peter  
 Dohse, John  
 Dommerich, L. F.  
 Doremus, R. P.  
 Dornitser, Henry  
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 Douglass, Alfred  
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 Downey, John I.  
 Dows, Mrs. David  
 Dows, Mrs. David, Jr.  
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 Drakefeld, B. F.  
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 Du Bois, Dr. Matthew B.  
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 Dunham, Dr. Carroll  
 Dunham, G. H.  
 Durand, John S.  
 Durkee, Eugene W.  
 Dutcher, William  
 Dutton, Edward P.

- Dwight, Dr. Jonathan, Jr  
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 Einstein, Edwin  
 Einstein, I. D.  
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 Eldridge, Lewis A.  
 Eldridge, Roswell  
 Elliott, Mrs. George  
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 Ellis, W. H.  
 Ellsworth, Wm. W.  
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 Emmet, Miss Lydia F.  
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 Engler, Ad  
 Eno, Amos F.  
 Eno, Jno. Chester  
 Erbsloh, R.  
 Erdmann, Martin  
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 Evans, Richard  
 Evans, William T.  
  
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 Fischer, T. Tasso  
 Fischer, William H.  
 Fisher, F. R.  
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 Flagler, Harry Harkness  
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 Fletcher, Andrew  
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 Flower, Frederick S.  
 Foss, Mrs. Lamar  
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 Fowler, Anderson  
 Frankenberg, W. V.  
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 Gould, John D.  
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 Guggenheim, William  
 Guggenheimer, R.  
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 Hamlen, Dr. Geo. D.  
 Hammond, James B.  
 Hanah, Charles J.



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 Hastings, Thos. S.  
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 Hendricks, Harmon W.  
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 Hershheim, Joseph  
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 Hoe, Richard M.  
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 Hoe, William A.  
 Hoe, William J.  
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 Hoffman, Samuel V.  
 Hogan, Charles M.  
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 Holden, E. R.  
 Holden, James C.  
 Holland, Joseph  
 Hollister, G. T.  
 Holt, Henry  
 Holt, R. S.  
 Holter, Mrs. E. O.  
 Holzmaister, L. V.  
 Hotchkiss, Henry D.  
 Houghton, Rev. Dr.  
 House, Frederick B.  
 Howard, Joseph, Jr.  
 Howell, M. D.  
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 Hoyt, Francis S.  
 Hoyt, Gerald L.  
 Hubbard, Gen. T. H.  
 Hubbard, Walter C.  
 Hughes, Charles E.  
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 Humphreys, Frederic H.  
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 Hüpfel, J. Chr. G.  
 Hurlbut, Theo. D.  
 Hurley, Thomas J.  
 Hurtt, Mrs. S. I.  
 Husted, Seymour L., Jr.  
 Hutton, F. R.  
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 Innis, Wm. R.  
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 Ireland, John B.  
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 Iselin, C. Oliver  
 Iselin, Miss Georgine  
 Iselin, Wm. E.  
 Isham, Samuel  
 Jackson, Charles A.  
 Jackson, Geo. T., M.D.  
 Jackson, John B.  
 Jackson, S. Macaulay  
 Jackson, Theodore F.  
 Jackson, Wm. H.  
 Jacob, Chas. W.  
 Jacobus, John S.  
 Jacqueline, W. O.  
 Jaffray, Robert  
 Janeway, E. G., M.D.  
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 Jansen, Ed.  
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 Jennings, Miss A. B.  
 Jennings, Mrs. Lila H.  
 Jennings, Philander R.

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 Jeremiah, Mrs. T. F.  
 Jesup, Mrs. James R.  
 Johnson, James G.  
 Johnson, Ralph C.  
 Johnston, J. Herbert  
 Joline, Adrian H.  
 Jones, A. H.  
 Jones, Dwight A.  
 Jones, H. Bolton  
 Jones, Walter R. T.  
 Josephi, E. A.  
 Josephi, Isaiah  
 Judson, Alfred M.  
 Judson, Henry I.  
 Jungmann, J.  
  
 Kahle, Jos. L.  
 Kahle, M.  
 Kahn, Otto H.  
 Kahnweiler, William S.  
 Kalbert, Adolph  
 Kane, Miss M. Sybil  
 Kauffeld, Theodore  
 Kaufmann, Paul, Ph.D.  
 Kean, Otis H.  
 Kellogg, Mrs. Chas.  
 Kellogg, Daniel F.  
 Kelly, Augustus W.  
 Kemmerer, M. S.  
 Kemp, Mrs. Edward  
 Kemp, George Wm.  
 Kemp, Prof. James F.  
 Kennedy, John S.  
 Kenyon, William H.  
 Kessler, Miss Wilh'mina  
 Ketchum, A. P.  
 Kevan, William  
 Keyser, Miss Julia T.  
 Kidder, C. G.  
 Kilner, S. E.  
 Kimball, Alfred R.  
 Kimbel, Anthony  
 Kimbel, Henry  
 King, Edward  
 King, Miss Mary R.  
  
 King, Thomas M.  
 King, William F.  
 King, Wm. W.  
 Kingsley, W. M.  
 Kinnicutt, Dr. F. P.  
 Kip, Clarence V.  
 Kip, W. Ruloff  
 Klatzl, John C.  
 Klenke, William H.  
 Knapp, H., M.D.  
 Koegler, Mrs. E. Gélien  
 Kohlman, Charles  
 Kohn, S. H.  
 Kohn, Theo. A.  
 Kohns, L.  
 Kraus-Boelté, Mrs. M.  
 Krower, Alfred  
 Kuttroff, Adolf  
  
 Ladew, Mrs. H. S.  
 Lagai, Dr. G.  
 Lagowitz, Miss H. L.  
 Lambert, Adrian V. S.  
 Lambert, Samuel W.  
 Lammel, Rev. Anthony  
 Landon, Francis G.  
 Landon, Henry Hutton  
 Lane, Edward V. Z.  
 Lange, J. D.  
 Langeloth, J.  
 Langmann, G., M.D.  
 Lapham, Lewis H.  
 Lapham, S. V.  
 Lathers, Miss Abby C.  
 Lauderdale, J.V., M.D.  
 Lavelle, Rev. Michael J.  
 Lawrence, Cyrus J.  
 Lawrence, Emlen N.  
 Lawrence, Miss M.  
 Lawrence, Mrs. Samuel  
 Layng, James D.  
 Leale, Charles A., M.D.  
 Leaycraft, J. Edgar  
 Lee, Charles N.  
 Lee, Mrs. Frederic S.  
 Lee, J. Bowers  
  
 Lefferts, Marshall C.  
 Lefferts, William H.  
 Legg, George  
 Lehmaier, James M.  
 Lehman, E.  
 Lehman, Meyer H.  
 Leland, Amory  
 Le Roy, Alfred  
 Leshner, A. I.  
 Leslie, E. A.  
 Leupp, Wm. H.  
 Levi, Albert A.  
 Levi, Emil  
 Levi, Emil S.  
 Levine, Julius  
 Levy, Emanuel  
 Lewis, Frederic E.  
 Lewis, Mrs. John V. B.  
 Lewis, Richard V.  
 Lewisohn, Adolph  
 Libbey, O. B.  
 Lichtenstein, Paul  
 Lieb, J. W., Jr.  
 Limburger, Ernest A.  
 Lincoln, Lowell  
 Lisman, Frederick J.  
 Littlefield, Frederick M.  
 Livingston, E. de P.  
 Livingston, Edward  
 Livingston, Wm. S.  
 Lloyd, Francis G.  
 Lobenstine, W. C.  
 Lockman, John T.  
 Loeb, James  
 Loewi, Valentine  
 Loewy, Benno  
 Loring, D. A.  
 Louis, Chas. H.  
 Lounsbery, R. P.  
 Iow, C. Adolphe  
 Lowell, Miss C. Russell  
 Lowell, Mrs. Charles R.  
 Löwengard, Otto  
 Ludington, C. H.  
 Ludlow, James B.  
 Lueder, A.

- Lummis, Benjamin R.  
 Lummis, Wm.  
 Lusk, Miss Anna H.  
 Luttgen, Wm.  
 Lydig, David  
 Lynde, Rollin H.  
  
 Maas, Gustavus  
 Mabon, J. B.  
 MacDougall, George R.  
 MacVeagh, Charles  
 Mack, J. W.  
 Mackenzie, Duncan E.  
 Mackey, Oscar T.  
 Macy, F. H., Jr.,  
 Macy, George H.  
 Macy, I. Augustus  
 Macy, Wm. H., Jr.  
 Mager, F. Robert  
 Mahl, Wm.  
 Maitland, Robert L.  
 Malcolm, W. L.  
 Man, William  
 Mansfield, Howard  
 Marc, Theophilus M.  
 Marcus, Arnold  
 Markle, John  
 Markley, T. W.  
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 Marling, Alfred E.  
 Marlor, Henry S.  
 Marsh, C. P.  
 Marshall, Charles H.  
 Marston, Edwin S.  
 Martin, E. Howard  
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 Martin, W. M.  
 Martinez, M. R.  
 Massey, George  
 Mathews, Thomas  
 Matthews, Gardiner D.  
 Matthews, John H.  
 Matthiessen, Marie  
 Maynard, George W.  
 McAlan, John  
 McAlpin, Dr. D. H., Jr.  
 McAlpin, George L.  
 McBean, Duncan D.  
 McCagg, Louis B.  
 McCosh, Dr. A. J.  
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 McCurdy, Richard A.  
 McDonald, John E.  
 McGovern, James  
 McGraw, James H.  
 McIntyre, Ewen  
 McKenney, Henry P.  
 McKibbin, Gilbert H.  
 McKim, Rev. Haslett  
 McKim, John A.  
 McLane, Jas. W., M.D.  
 McLean, George H.  
 Meigs, Titus B.  
 Melcher, John S.  
 Mellen, C. S.  
 Mendenhall, Rev. H. G.  
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 Merrill, William J.  
 Metz, Herman A.  
 Meyer, Dr. Alfred  
 Meyer, Harry J.  
 Meyer, Robert B.  
 Meyer, Thomas C.  
 Meyn, Heinrich  
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 Miller, Geo. Macculloch  
 Mills, John T., Jr.,  
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 Mitchell, Alfred  
 Mitchell, Cornelius B.  
 Mitchell, John J.  
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 Moller, Peter, Jr.  
 Montross, N. E.  
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 Morewood, George B.  
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 Morris, Theo. Wilson  
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 Morrison, Wm. J.  
 Morse, James R.  
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 Murray, F. W., M.D.  
 Murray, J. Irvin, Jr.  
 Murtha Thomas F.  
 Myers, Chas. A.  
 Myers, J. G.  
  
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 Nathan, Harmon H.  
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 Newton, James S.  
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 Nichols, Seth  
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- Nugent, Frank L.  
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 Ogdén, Robert C.  
 Olcott, E. E.  
 Olcott, F. P.  
 Olcott, Geo. M.  
 Ollive, Thos. S.  
 Olyphant, R. M.  
 Olyphant, Robert  
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 O'Rourke, John F.  
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 Ortgies, John  
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 Painter, H. McM.  
 Palmer, Francis F.  
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 Palmer, N. F.  
 Palmer, S. S.  
 Parker, Forrest H.  
 Parrish, James C.  
 Parsell, Henry V. A.  
 Parsons, Mrs. Edwin  
 Parsons, Herbert  
 Parsons, W. H.  
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 Patterson, Hon. Edward  
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 Peck, Charles E.  
 Pederson, James  
 Pell, Stephen H. P.  
 Pellew, Henry E.  
 Penfold, Wm. Hall  
 Penniman, George H.  
 Pentz, Frank R.  
 Perkins, George W.  
 Perkins, Seymour  
 Perry, Chas. J.  
 Perry, William A.  
 Peters, Edward McClure  
 Peters, Samuel T.  
 Peterson, Fred'k, M.D.  
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 Pfender, W. S.  
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 Phillips, Guy  
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 Pinkus, F. S.  
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 Porter, William L.  
 Post, Abram S.  
 Post, Sylvester  
 Potter, Miss Blanche  
 Potter, Frederick  
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 Potts, Jesse W.  
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 Rawson, Edward S.  
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 Redmond, G. H.  
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THE  
AMERICAN MUSEUM OF NATURAL HISTORY.



THE  
AMERICAN MUSEUM OF NATURAL  
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CENTRAL PARK, NEW YORK CITY,  
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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.

FOR THE YEAR 1905.



NEW YORK:  
PRINTED FOR THE MUSEUM

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1906.



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FORM OF BEQUEST.

---

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

.....

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## THIRTY-SEVENTH ANNUAL REPORT.

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*To the Trustees and Members of the American Museum of Natural History :*

The President submits herewith a report of the affairs of the Museum for the year 1905.

FINANCES.—The financial transactions of the Museum are divided into three separate accounts, and the details of the receipts, expenditures and investments for the year just closed, thus classified, will be found in the Treasurer's Report, pages 39 to 45 inclusive. These accounts and all books and vouchers have been duly examined and certified to by the Audit Company of New York. A few statements may help in making the details of this report clear.

*Permanent Endowment.*—This fund amounts to \$1,013,000, the same as noted in the last Report. The interest on this sum provides the principal source of income of the General Account, upon which is dependent the purchase of new collections, the maintenance of field parties, the publication of the results of scientific investigations, in short, the general growth of the collections and the continuation and extension of scientific work. It is not sufficient to meet our present needs and an increase of this fund is imperative.

*Special Funds.*—From time to time friends of the Museum have united their interest in some special researches, explorations or installations, and have provided the means therefor by subscribing to a "special fund." In such cases an officer of the Museum has generally acted as treasurer, and the scien-



The following have been made Life Members:

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DEPARTMENT OF PUBLIC INSTRUCTION.—The ill health of Professor Bickmore, who has faithfully and efficiently served the Museum as the head of this department, has incapacitated him for active work. The Trustees, however, were very reluctant to lose his services, and, in order to lighten his duties as much as possible, they appointed him Curator Emeritus, at the same time expressing their hope that from time to time he might be able to take his accustomed place upon the lecture platform.

During the year Professor Bickmore has given four lectures to Members of the Museum and their invited friends, and free lectures to the public on Washington's Birthday and Thanksgiving Day. He has also generously placed his valuable lantern slides at the disposal of the Curators for use in the

children's lectures, and in other ways has shown his continued devotion to the institution with which his life has been identified.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—Several investigators in this branch of science have spent considerable time at the Museum examining the collections, and assistance has been given others by loaning specimens, etc.

Early in the year, the Associate Curator, Dr. Hovey, was granted leave of absence for eleven weeks, in order that he might join an expedition to northwestern Mexico for the purpose of examining the mineral resources of the region. As the region traversed was one entirely new to geologists, Dr. Hovey secured for the Museum 325 specimens of minerals, 425 valuable negatives and data for several scientific papers.

In September, Dr. Hovey was sent to Portland, Oregon, to examine the famous "Willamette" meteorite. While on this mission, he procured valuable series of ores and other economic products from Montana, Colorado, Oregon, Wyoming, Utah, Idaho, California and Alaska, together with series of samples illustrating the separation of platinum, gold and other valuable substances from ocean and river sands.

The Curator has prepared for publication an article "Notice of Jurassic Fossils from Franz Josef Land," and the Associate Curator, besides continuing to have charge of the *Museum Journal*, has published several papers.

A series of instructive models, or relief maps, of the island of Martinique and of the volcano of Mt. Pelé has been prepared by the Department of Preparation and Installation and placed in the exhibition hall. The models represent the volcano at three stages of its history: (a) at the time of its first eruption, May 8, 1902; (b) at the close of the period of its greatest activity, August 30, 1902, and (c) in April and May, 1903, when the marvelous cone and surmounting spine found within the crater were at their maximum development.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—Several important installations of groups have been finished and others are well under way. The striking Flamingo Group and a group illustrating the bird life of the irrigated portion of the San Joaquin Valley, California, have been completed and opened to the public. Two Bahama bird groups, the White-crowned Pigeon and Ani, have been installed, and considerable work has been done on the Sandhill Crane and Pelican Island groups.

Of mammals, the Mexican Collared Peccary has been completed, and progress has been made in the preparation of the Roosevelt Elk, the big Alaskan Peninsula Bear, Coati, Antelope and Polar Bear groups.

Mr. J. H. Batty has continued to collect in Mexico for the Museum, and has prepared and shipped 1,520 mammal skins and 1,680 bird skins, besides numerous reptiles and invertebrates which have been turned over to the Department of Invertebrate Zoölogy. Most of this material was collected in the State of Jalisco, and includes some very valuable species.

On an expedition to the State of Washington in search of elk, Mr. J. D. Figgins obtained accessories for the Elk Group and specimens and accessories for a Beaver Group. The beaver is particularly interesting as representing a form peculiar to the humid region of the Northwest.

Besides the accessions already noted, special mention should be made of a splendid series of skulls of the Hippopotamus and the Giraffe, the gift of Mr. George S. Bowdoin; 358 mammals and 525 birds, collected in Chiriqui, Panama, the gift of Mr. J. H. Batty, and various specimens of mammals and birds, received in the flesh, through the courtesy of the New York Zoölogical Society and the Central Park Menagerie.

A notable acquisition has been received from Miss M. R. Audubon and Miss Florence Audubon. It comprises several original colored drawings of great value and articles of dress and field equipment belonging to their grandfather, the eminent naturalist and bird lover, John James Audubon. In the collection are many sketches and paintings made by his son, J. W. Audubon.



The total accessions for the year are 2,172 mammals and 2,420 birds.

The general work of the department has progressed satisfactorily. The cataloguing and identification of the birds collected by Mr. J. H. Batty, and the rearrangement of the study collections of birds have been continued by Mr. Miller under Mr. Chapman's supervision. The index, or systematic catalogue of mammals, is well advanced.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—The most noticeable event in the work of this department was the completion of the installation of the great amphibious Dinosaur, *Brontosaurus*, discovered near Medicine Bow, Wyoming, by the Museum Expedition of 1898, and collected during the summer of 1899. This gigantic reptile is nearly 70 feet in length and over 15 feet in height; it occupies the center of the new Hall of Fossil Reptiles. The *Brontosaurus* has attracted a great deal of attention in the press, and has proved to be one of the most interesting exhibits in the Museum. Other noteworthy installations have been the skeletons of *Diplodocus*, a long-limbed Dinosaur; *Ornitholestes*, a small "bird-catching" Dinosaur; *Stegosaurus*, an armored herbivorous Dinosaur; *Hadrosaurus*, a duck-billed herbivorous Dinosaur; *Allosaurus*, a bipedal carnivorous Dinosaur; also of the great skull of *Triceratops*, a three-horned herbivorous Dinosaur, and finally of portions of the skeleton of *Tyrannosaurus*, a newly-discovered carnivorous and bipedal Dinosaur of immense size. The fine exhibit of fossil turtles and tortoises, occupying two alcoves in the Dinosaur Hall, is now nearly complete.

The mounting of the splendid mammoth skeleton from Indiana is nearing completion. This fine skeleton is a most important addition in filling in the gaps in our series of fossil mammal skeletons, and will make a striking centerpiece for the hall. It is a mammoth of the largest size, standing fully 13 feet high, considerably exceeding the skeleton in the St. Petersburg Museum, and quite as large as the skeleton in the Paris Museum. The skeleton of a four-toed horse, obtained in the Bridger Basin last summer, is being prepared. This will give

us the Middle Eocene stage in the evolution of the Horse, intermediate between the Lower Eocene and Oligocene horse skeletons now on exhibition.

The field explorations have yielded several important accessions. The Harriman expedition to Bone Cabin Quarry succeeded in obtaining a considerable part of the skeleton of another of the small Dinosaurs of the Jurassic Period. These reptiles are as yet incompletely known, but probably they were characteristic animals of the dry land during the Age of Reptiles.

The expedition to the Cretaceous of Montana was a very successful one. By dint of extensive and heavy quarrying the greater part of the skeleton of the giant carnivorous Dinosaur, *Tyrannosaurus*, was obtained.

From the Bridger Basin was obtained a number of specimens of which the most important is a mountable skeleton of the four-toed horse, *Orohippus*. Three years of exploration in this basin, the richest locality in this country for fossil vertebrates of the Eocene period, have added to our collections a splendid series of skulls and skeletons, especially of the smaller species hitherto very imperfectly known.

DEPARTMENT OF ANTHROPOLOGY.—Considerable progress has been made in cataloguing the new collections received during the year and also several not previously catalogued.

The problem of storing duplicate and study specimens has been a difficult one. Early in the fall the rooms vacated by the Department of Preparation and Installation were assigned to this department and were equipped with a number of large storage cases. This additional room has made it possible to classify a large amount of material and to arrange it satisfactorily.

The time of Dr. Clark Wissler, the Acting Curator, has been taken up with the routine duties of his office, the care of the exhibition halls and the general supervision of the work of the department. He has continued his investigations of the ethnology of the Plains Indians, giving special attention to their material culture, and in addition, he is engaged in a

general ethnographic survey of North America, in order to determine the limits of the different culture areas.

In January, Dr. Farrand resigned as Associate Curator in order to accept the executive secretaryship of the National Association for the Study and Prevention of Tuberculosis. While we extend our heartiest congratulations to Dr. Farrand on his new appointment, we feel the keenest regret that the Museum has lost the services of an efficient officer.

Dr. Laufer, Mr. Pepper and Mr. Bandelier have made progress in their respective departments.

The field work has yielded good results. Dr. William Jones is now visiting the Ojibway Indians, where he is studying their religious and industrial life. Dr. P. E. Goddard has secured important data among the Sarcee Indians, a tribe living upon the border between the plains and the forest and presenting two types of culture. Mr. Edward Sapir has made a small collection at the Yakima Indian Reservation. Mr. Frank G. Speck has been working among the Uchee Indians. Miss Constance G. DuBois has been doing volunteer work among the Mission Indians. J. B. Walker, M.D., is continuing his volunteer work among the Dakota. Mr. D. C. Duvall has added materially to our Blackfoot collections.

Perhaps the most important accession received has been the extensive and valuable collection, illustrating the ethnology of the Philippine Islands, which was secured at St. Louis and presented to the Museum by the President.

Other notable accessions are extensive African collections, the gift of Mr. George S. Bowdoin; a unique "mummy" from South America, presented by Mr. J. Pierpont Morgan; a large collection of baskets and ceremonial objects, by Mr. Adolph Lewisohn; a number of valuable Indian specimens, by Mrs. Albert Bierstadt, and a fine collection of Socorro pottery by Mr. George G. Heye.

Through the generosity of Mr. George Foster Peabody, Mr. Robert C. Ogden and Mr. Arthur Curtiss James, the Museum has received a valuable oil painting, entitled, "The Song of the Innookshuee." The painting was made in 1894, by Mr. F. W. Stokes, while in Greenland with Commander

Peary. In accordance with the wish of the donors it has been placed in the Library, where it may be seen by the public.

MEXICAN AND CENTRAL AMERICAN ARCHÆOLOGY.—Through exchanges with other institutions, material has been received which greatly strengthens the Museum's exhibit of Mexican archæology, largely given us by the Duke of Loubat. The rearrangement of the collections in the Mexican Hall has been continued with a view to bringing out the distinction between the different cultures of Mexico, South Central America and Panama.

The most important work done, however, was the painting of the cast of the sculptured side of a room in the ruins of Chichen Itza, Yucatan. Through the assistance of Miss Adela Breton, of England, we are able to show the painting of the sculptures as they probably appeared in ancient times. This painting has brought out the figures to a remarkable extent and has added a great deal of interest to the cast.

JESUP NORTH PACIFIC EXPEDITION.—Since May, Professor Boas has paid particular attention to the publication of the results of this expedition. The memoirs are being printed by E. J. Brill, of Leiden, and the following parts were issued during 1905:

Vol. III, Part III. "Kwakiutl Texts." By Franz Boas and George Hunt.

Vol. V, Part I. "Contributions to the Ethnology of the Haida of Queen Charlotte Islands." By John R. Swanton.

Vol. VI, Part I. "Religion and Myths of the Koryak." By Waldemar Jochelson.

In connection with the researches among the North American Indians, Professor Boas has discussed the anthropometric material collected by Dr. Dixon and others on expeditions to California. This paper was published as Part IV of Volume XVII of the *Bulletin*. Dr. Dixon has prepared the

manuscript of the description of the Shasta, which, as Part V, will close Volume XVII.

EAST ASIATIC COMMITTEE.—During the past year the field work was concluded and Dr. Laufer has devoted his time to the classification and arrangement of the Chinese collection, and to his researches on the collection of ancient Chinese pottery. His manuscript on the pottery of the Han period is practically completed. To assist him in his studies, Dr. Laufer has made use of several collections of Chinese pottery belonging to art collectors, generously loaned to him for the purpose, and in this connection we wish especially to acknowledge the courtesies extended by Mr. Marsden J. Perry, of Providence, R. I., and Mr. Thomas B. Clarke and Mr. R. H. Williams, of New York City.

DEPARTMENT OF ENTOMOLOGY.—Good progress has been made in rearranging the collections and in installing new exhibits. Of special mention are specimens representing six races of the honey-bee; a series of queen cells; some unusual forms of comb of the domesticated honey-bee, built on branches of trees, and wax models of certain insect-galls.

There are now on exhibition 22,600 specimens of insects, nevertheless much is yet to be added to bring the collection up to a proper standard of completeness and usefulness.

The Curator has procured 1,800 insects, which he has mounted in sixty cases for circulation in the public schools. Each case illustrates the life-history of the cecropia moth, development of the monarch butterfly, life and work of the honey-bee, and common household pests.

Arrangements have been made with the following experts for the identification of special groups of insects, and their assistance is gratefully acknowledged:

- Mr. Otto Heidemann.....Washington, D. C.
- Mr. E. P. Van Duzee.....Buffalo, N. Y.
- Prof. H. Osborn.....Columbus, O.
- Prof. P. R. Uhler.....Baltimore, Md.
- Dr. W. H. Ashmead.....Washington, D. C.

Mr. Nathan Banks.....	East Falls Church, Va.
Mr. Alexander D. MacGillivray..	Ithaca, N. Y.
Mr. E. S. G. Titus.....	Washington, D. C.
Dr. W. G. Dietz. ....	Hazleton, Pa.
Mr. E. A. Schwarz.....	Washington, D. C.
Prof. A. D. Hopkins.....	Washington, D. C.
Mr. W. Fiske.....	Washington, D. C.
Mr. H. L. Viereck.....	Philadelphia, Pa.
Mr. A. P. Morse.....	Wellesley, Mass.
Prof. James G. Needham.....	Lake Forest, Ill.
Dr. F. C. Paulmier.....	Albany, N. Y.
Prof. P. P. Calvert.....	Philadelphia, Pa.
Mr. James A. G. Rehn.....	Philadelphia, Pa.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.—The attractiveness of the Morgan Gem Collection continues and has been increased by giving it more commodious quarters and by installing it in more appropriate cases. The entire room has been assigned to gems and to the more striking minerals. Large showy specimens have been placed in the wall cases in such a way as to bring out their beauty to the best advantage. Appropriate labels are being prepared, and in a few weeks the installation will have been completed.

Again we are indebted to Mr. J. Pierpont Morgan for his generosity in adding nearly two hundred specimens to this already priceless collection.

The income from the Bruce Fund has made possible the purchase of a number of desirable minerals, among which may be mentioned twenty-eight specimens of amber and a jade labret of remarkable character.

One of the notable acquisitions during the year was a very large number of miscellaneous shells from the Philippine Islands, which formed part of the Philippine exhibit at St. Louis secured by the Museum. With the aid of these shells, many lacunæ in the collection have been filled.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—During the early part of the year a card catalogue of the fishes was taken up and the study collections cleaned and carefully rearranged.

Considerable work has been done in the Synoptic Hall, which is now also used as temporary quarters for the mounted collection of reptiles and batrachians. Groups of the following forms have been mounted and placed in this hall: Land-crabs of the Bahamas, Copperhead Snakes, Mexican Iguana, Mexican Heloderma, and Texas Rattlesnakes. Two collections representing the local reptiles and amphibians have also been installed. These latter were brought together to illustrate two guide leaflets, written by R. L. Ditmars, of the New York Zoölogical Park, and published by the Museum.

Dr. Dahlgren and Mr. Mueller have constructed twelve models of marine and fresh-water invertebrates, nearly completing the series of Cœlenterate types and making an important addition to the Rotiferan and Polyzoan alcoves, which hitherto have been almost empty. Descriptive labels of the new groups have been completed.

Among a number of important acquisitions, special mention should be made of a fine series of Philippine corals, a magnificent sea-fan and two enormous *Tridacna* shells, all purchased by the Museum.

During May, Dr. Wheeler, the Curator, made an expedition to New Mexico, Arizona and California for the purpose of studying the invertebrate fauna and the vegetation of the desert. The nesting habits of several interesting species were observed for the first time, and valuable photographs of nest architecture, characteristic desert environment, etc., were secured.

The Assistant Curator, Mr. Sherwood, has given all of his time to superintending and making up the school collections and organizing and participating in the lectures to the school children at the Museum. The small nature-study collections which the Museum loans to the public schools of the City proved so useful to teachers, and the demand for them was so great, that it was found necessary to increase their number. During the summer more than 600 bird skins were purchased and mounted, and new collections of insects and woods were prepared. At the present time there are 400 cabinets of specimens available for this work, representing birds, insects, mollusks, crabs, starfishes, worms, corals, sponges and native

woods. During the school year, ending June 30, 1905, these cabinets were in use in 200 schools and were studied by more than 375,000 children. These specimens are used by the teachers not only for pure nature-study work, but as models for drawing lessons, written and oral language work, conversation lessons, dictation exercises and in connection with reading.

Continuing the work inaugurated last year, a spring and a fall course of informal lectures for school children have been delivered at the Museum by members of the scientific staff. There were thirty-six lectures in each course, a detailed list of which will be found on page 33. The lectures were given on Monday, Wednesday and Friday afternoons and were very popular. More than 20,000 pupils attended the spring series, and fully 15,000 were present during the fall course.

An unusual number of classes has visited the Museum for purposes of study, and frequently teachers have asked to have the classrooms reserved, in order that they might give their pupils special lectures.

At the request of a number of teachers and principals of West Side schools, a laboratory course on birds and insects was arranged for teachers, and Mr. Jules M. Johnson, of the Morris High School, was engaged to conduct it. About 50 teachers attended.

It is gratifying to report the increased use in this manner of the Museum's collections, and the continued friendly relations which exist between this institution and the various branches of the school system of the City.

DEPARTMENT OF PHYSIOLOGY.—By an arrangement made early in the year, this department has had under its direction the care of the animals received at the Museum and the preparation of skeletons. Dr. C. W. Muenchehofe has had immediate charge of this work and has personally performed most of the autopsies.

More than two hundred animals have been received in the flesh, as noted in the list of accessions; sixty autopsies have been performed, and eighty-one complete skeletons and twenty-three skulls have been prepared.



The preparation of skeletons by the old process is very slow, several weeks being required to complete a single skeleton. This method is entirely inadequate to take care of the material received. After many experiments, the department has adopted a process of digestion with trypsin in an alkaline solution, which is not only a rapid method but leaves the bones in a perfectly sweet condition as well as avoiding many of the injuries, particularly to small bones, which occur by maceration. This work is greatly hampered, however, by the lack of proper equipment and suitable quarters.

Satisfactory progress has been made in the preparation of corrosion specimens of the various organs of the animal body.

A part of the room west of the Mexican Hall has been allotted to the department for exhibition purposes. A general plan of installation has been tentatively formulated, illustrating the chemical constitution of man and the various functions performed by the different organs of the body. Some of the material for this exhibit is well under way.

Dr. George W. Crary, a well-known specialist of this City, has given to the department the benefit of his wide experience and is making a comparative histological study of the skin of vertebrates. It is expected that from these preparations wax models can be constructed which will be valuable for Museum exhibition.

We are pleased to acknowledge the many courtesies extended to the Museum by the Director of the Aquarium, the Director of the New York Zoölogical Society and the Director of the Central Park Menagerie.

DEPARTMENT OF PREPARATION AND INSTALLATION.—The members of this department have been fully occupied. A large number of models of invertebrates have been completed, the accessories for several bird and mammal groups have been prepared, and installations of these have been made, as noted under the various departments. The making of casts and the general photographic work for the Museum have been under the direction of this department.

During the summer the laboratories in the new power wing were completed and the equipment was transferred in September to the new quarters. These rooms are commodious and well adapted to the needs of the department.

Several of those working under Dr. Dahlgren were transferred to Mr. J. D. Figgins, who now has general charge of the preparation of the higher animals and of plants for exhibition purposes, and the making of archæological models and replicas. Mr. James L. Clark has been placed in charge of the mounting of all large mammals and reptiles.

DEPARTMENT OF BOOKS AND PUBLICATIONS.—The energies of the department have been especially devoted to cataloguing, and this important work is now completed for the entire Library, with the exception of a few sections. During the year 4,948 volumes, 871 numbers, and 9,128 pamphlets have been classified and catalogued. These, added to the work previously completed, give the Library a total of 32,014 volumes and 16,584 pamphlets properly classified, catalogued and ready for use.

The more important accessions for the year are a gift from Professor J. A. Allen of 3,793 pamphlets; a gift from Dr. William M. Wheeler of many articles on entomology; a gift from Mr. J. Pierpont Morgan of seven volumes of plates of the fishes from the island of Mauritius; a purchase of 700 plates on Animal Locomotion by Muybridge; a gift of 218 volumes from the estate of the late George L. Hyslop; a gift from Miss A. A. Drummond of 24 volumes, and a gift from General J. Watts de Peyster of 15 volumes.

During the year, 15,069 cards from the Concilium Bibliographicum have been received and distributed in the Concilium System. There has also been received on deposit one complete set of cards, to which have been added 15,069 cards during the year, according to the agreement between the American Museum and the Concilium Bibliographicum.

Following is a list of the scientific publications of the Museum issued in 1905, as received by the Curator for distribution and exchange:

## DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

*Bulletin*, Volume XXI.

R. P. Whitfield. "Notice of a New Crinoid and a New Mollusk from the Portage Rocks of New York." (Pages 17-20, plates i-iv.)

R. P. Whitfield. "Descriptions of New Fossil Sponges from the Hamilton Group of Indiana." (Pages 297-300.)

R. P. Whitfield. "Notice of a New Species of *Fasciolaria* from the Eocene Green Marls at Shark River, N. J." (Pages 301-303, with 2 text figures.)

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

*Bulletin*, Volume XXI.

J. A. Allen. "Report on the Birds Collected in Northeastern Siberia by the Jesup North Pacific Expedition, with Field Notes by the Collectors." (Pages 219-257.)

J. A. Allen. "Supplementary Notes on Birds Collected in the Santa Marta District, Colombia, by Herbert H. Smith, with Descriptions of Nests and Eggs." (Pages 275-295.)

F. M. Chapman. "A Contribution to the Life History of the American Flamingo (*Phanicopterus ruber*) with Remarks upon Specimens." (Pages 53-77, with 16 text figures.)

W. de W. Miller. "List of Birds Collected in Southern Sinaloa, Mexico by J. H. Batty, during 1903-1904." (Pages 339-369.)

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

*Bulletin*, Volume XXI.

O. P. Hay. "On the Group of Fossil Turtles known as the Amphiche-lydia; with Remarks on the Origin and Relationships of the Suborders, Super-families and Families of Testudines." (Pages 137-175, with 5 text figures.)

O. P. Hay. "A Revision of the Species of the Family of Fossil Turtles called Toxochelyiidae, with Descriptions of Two New Species of *Toxochelys* and a New Species of *Porthochelys*." (Pages 177-185, with 16 text figures.)

O. P. Hay. "On the Skull of a New Trionyhid, *Conchochelys admirabilis*, from the Puerco Beds of New Mexico." (Pages 335-338, with 3 text figures.)

L. Hussakof. "Notes on the Devonian 'Placoderm,' *Dinichthys intermedius* Newb." (Pages 27-36, with 2 text figures.)

L. Hussakof. "On the Structure of Two Imperfectly Known Dinichthy-ids." (Pages 409-414, plates xv-xvii, with 2 text figures.)

W. D. Matthew. "Notice of Two Genera of Mammals from the Oligo-cene of South Dakota." (Pages 21-26, with 6 text figures.)

H. F. Osborn. "*Tyrannosaurus* and Other Cretaceous Carnivorous Dinosaurs." (Pages 259-265, with 2 text figures.)

## DEPARTMENT OF ANTHROPOLOGY.

*Memoirs of the Jesup North Pacific Expedition.*

Franz Boas and George Hunt. "Kwakiutl Texts." Volume III, Part III. (Pages 403-532.)

W. Jochelson. "Religion and Myths of the Koryak." Volume VI, Part I. (Pages 1-382, plates i-xiii, with 58 text figures and 1 map.)

J. R. Swanton. "The Haida of Queen Charlotte Islands." Volume V, Part I. (Pages 1-300, plates i-xxvi, with 31 text figures and 4 maps.)

*Bulletin*, Volume XVII.

Franz Boas. "Anthropometry of Central California." Part IV. (Pages 347-380, plates l-lviii.)

R. B. Dixon. "The Northern Maidu." Part III. (Pages 119-346, with 67 text figures.)

*Bulletin*, Volume XXI.

G. F. Kunz. "On the Ancient Inscribed Sumerian (Babylonian) Axe-Head from the Morgan Collection in the American Museum of Natural History." (Pages 37-47, with 13 text figures.)

J. D. Prince and R. Lau. "An Ancient Babylonian Axe-Head." (Pages 49-52, plate vi.)

## DEPARTMENT OF ENTOMOLOGY.

*Bulletin*, Volume XXI.

Nathan Banks. "Descriptions of New Species of Neuropterous Insects from the Black Mountains, N. C." (Pages 215-218.)

E. P. Van Duzee. "Notes on Australian Pentatomidæ, with Descriptions of a Few New Species." (Pages 187-214.)

## DEPARTMENT OF INVERTEBRATE ZOOLOGY.

*Bulletin*, Volume XXI.

W. M. Wheeler. "An Interpretation of the Slave-Making Instincts in Ants." (Pages 1-16.)

W. M. Wheeler. "The Ants of the Bahamas, with a List of the Known West Indian Species." (Pages 79-135, plate vii, with 23 text figures.)

W. M. Wheeler. "New Species of *Formica*." (Pages 267-274.)

W. M. Wheeler. "The North American Ants of the Genus *Dolichoderus*." (Pages 305-319, plates xii and xiii.)

W. M. Wheeler. "The North American Ants of the Genus *Liometopum*." (Pages 321-333, with 3 text figures.)

W. M. Wheeler. "An Annotated List of the Ants of New Jersey." (Pages 371-403, with 4 text figures.)

W. M. Wheeler. "Worker Ants with Vestiges of Wings." (Pages 405-408, plate xiv.)

*The American Museum Journal*, Volume V, published in four numbers, with the following Guide Leaflets:

W. D. Matthew. "The Fossil Carnivores, Marsupials and Small Mammals in The American Museum of Natural History." (Leaflet No. 17, January, pages 1-41, with 27 text figures.)

W. D. Matthew. "The Mounted Skeleton of *Brontosaurus* in The American Museum of Natural History." (Leaflet No. 18, April, pages 1-12, with 4 text figures.)

R. L. Ditmars. "The Reptiles of the Vicinity of New York City." (Leaflet No. 19, July, pages 87-140, with 47 text figures.)

R. L. Ditmars. "The Batrachians of the Vicinity of New York City." (Leaflet No. 20, October, pages 155-206, with 28 text figures.)

DEPARTMENT OF MAPS AND CHARTS.—The classification and rearrangement of the maps and charts have been continued. Large fire-proof cases for storage have been constructed and equipped to receive the frames to which the maps are bound.

Contributions to this department have been received from General J. Watts de Peyster, Dr. H. C. Bumpus, Professor Henry F. Osborn and Mr. F. W. Bauer. The accessions have been:

By Donation.....	Atlases 4.....	Maps 631.....	Charts 3
" Exchange.....	" 3.....	" 19.....	" 0
" Purchase.....	" 0.....	" 104.....	" 47
Total.....	7.....	754.....	50

ATTENDANCE.—It is gratifying to report the unusually large increase in the number of visitors to the Museum. The attendance for 1904 was 402,449, a considerable gain over that of previous years, but during 1905, 565,489 visitors were recorded, an increase of more than 25% over the figures for 1904. This growing popularity of the Museum is due in part to the opening of several striking exhibits, particularly the huge *Brontosaurus*, and the Flamingo and San Joaquin Valley bird groups; to the improvement of the installation of old collections, and to the continued intimate relations between the Museum and the Public Schools. More than 46,000 children have visited the Museum in classes for lectures and

purposes of study, and about 50,000 people have been present at the various public lectures.

ASSOCIATED SOCIETIES AND ORGANIZATIONS.—The two small assembly rooms have been improved by changes remedying, in a great measure, their defective acoustic properties, and throughout the year they have been in great demand for the meetings of various scientific societies which have sought affiliation with the Museum. Occasionally the large auditorium has been required for the accommodation of such organizations.

Early in the year the Board of Education of the City asked permission for the temporary use of one of the exhibition halls in which to install the collections illustrating the work done in the public schools, and comprising the exhibit of the Board at the St. Louis Exposition. This was desired in order that the public might become more familiar with the work that the schools are doing, and that the teachers might have an opportunity to study the methods and results of others. The East Mammal Hall was assigned for this purpose and was occupied by the school exhibit from March till August.

In November the Siberian Hall was given over to the American Tuberculosis Exhibition for the display of an instructive exhibit showing the results of the dread disease and the best methods to check its spread. In connection with the exhibition eminent men delivered lectures at the Museum on various phases of this important subject. The Board of Health of the City was given permission to use one of the small assembly rooms for the temporary installation of its exhibit at the St. Louis Exposition.

The following societies and classes have shared the hospitality of the Museum during the past year:

- New York Academy of Sciences.
- New York Entomological Society.
- Linnæan Society of New York.
- New York Mineralogical Club.
- Audubon Society of the State of New York.
- National Association of Audubon Societies for the Protection of Wild Birds and Animals.
- American Chemical Society.

Germanistic Society of America.  
Torrey Botanical Club.  
Sequoia League.  
American Ethnological Society.  
West Side Natural History Society.  
American Ornithologists' Union.  
American Psychological Association, New York Section.  
American Tuberculosis Exhibition.  
American Society of Palæontologists.  
Natural Science Committee of the Associated Alumnae of the Normal  
College, New York City.  
Classes in Palæontology of Columbia University.  
Classes of Teachers in Nature Study, University Extension.  
Classes from School of Decorative and Applied Art.

TRANSPORTATION.—The increase of the scope of the Museum's work necessitates extended explorations. These explorations are too often limited in their results, especially in distant fields, because of the difficulties of transporting the material secured. The generous aid, however, of various railways in granting passes to our curators and assistants to and from their distant fields of explorations and in carrying the collections at reduced rates has made possible field operations which otherwise would not have been undertaken, and I wish to acknowledge our indebtedness to these companies. The following have extended many courtesies to us during the past year:

Atchison, Topeka and Santa Fe Railway.  
Canadian Northern Railway.  
Canadian Pacific Railway.  
Chicago, Burlington & Quincy Railway.  
Chicago, Milwaukee & St. Paul Railway.  
Chicago & Northwestern Railway.  
Erie Railroad.  
Great Northern Railway.  
Northern Pacific Railway.  
Oregon Railroad & Navigation Company.  
Oregon Short Line Railroad.  
Pennsylvania Railroad.  
Southern Pacific Company.  
Union Pacific Railroad.  
Wabash Railroad.

LECTURES.—Several lecture courses have been delivered during the year. These include (1) a spring and a fall course to Members of the Museum, (2) a public course given on holidays, (3) a course given in conjunction with Columbia University, (4) a spring and a fall course to pupils of the public schools, (5) a nature study course to teachers, (6) a course under the auspices of the Board of Education of the City of New York, in coöperation with the Museum.

## LECTURES TO MEMBERS.

Members of the scientific staff of the Museum delivered the following lectures:

January	5.—Mines, Quarries and "Steel Construction" . . .	Louis P. Gratacap
"	12.—Western Holland—Middleburg to Helder,	Prof. Albert S. Bickmore
"	19.—Eastern Holland—Utrecht to Groningen,	Prof. Albert S. Bickmore
February	2.—The Traveling Indian Medicine Men of Bolivia.	A. F. Bandelier
"	9.—Religious and Ceremonial Life of the North American Indians . . . . .	Dr. Livingston Farrand
"	16.—Ruins of Mayan Cities in Central America,	Prof. Marshall H. Saville
"	23.—Explorations in the Southwest and in Mexico during 1904 . . . . .	George H. Pepper
March	2.—The Game and Food Fishes of Our Atlantic Coast,	George H. Sherwood
"	9.—The Habits of Ants . . . . .	Dr. William Morton Wheeler
"	16.—Northern Germany—Bremen, Hamburg and Lubeck,	Prof. Albert S. Bickmore
"	23.—Southern Germany—Stuttgart, Nuremberg and Rothen- burg . . . . .	Prof. Albert S. Bickmore
November	9.—The Bird Life of Florida . . . . .	Frank M. Chapman
"	16.—Newfoundland: Its Scenery and People . . .	Louis P. Gratacap
"	23.—Northern Mexico: Its Deserts, Plateaus and Canyons,	Dr. Edmund Otis Hovey
December	7.—The Museum's Rocky Mountain Explorations of 1905,	Prof. Henry Fairfield Osborn
"	14.—The Philippines—Manila . . . . .	Prof. Albert S. Bickmore
"	21.—The Philippines—Luzon . . . . .	Prof. Albert S. Bickmore

## PUBLIC LECTURES ON HOLIDAYS.

New Year's Day, January 2.—	What the Lover of Nature may find in our City Parks . . . . .	Louis P. Gratacap
Washington's Birthday, February 22.—	Holland . . . . .	Prof. Albert S. Bickmore



- Thanksgiving Day, November 30.—Antwerp, Brussels and Waterloo,  
 Prof. Albert S. Bickmore  
 Christmas Day, December 25.—Northern Mexico: Its Deserts, Plateaus  
 and Canyons..... Dr. Edmund Otis Hovey

COLUMBIA UNIVERSITY LECTURES.

*In Coöperation with the Museum.*

A course of six lectures by Professor Henry Fairfield Osborn was given in coöperation with Columbia University, as follows:

- February 1.—The Horse as an Animal Mechanism.  
 " 6.—The Horse in Relation to the Idea of Evolution.  
 " 8.—The Fossil History of the Horse, especially in North America.  
 " 13.—The Fossil History of the Horse, continued.  
 " 15 —Existing Races of Horses, Asses and Zebras.  
 " 20.—Probable Origin of the Domesticated Breeds of Horses.

LECTURES FOR CHILDREN.

A spring and a fall course of lectures were given for pupils of the public schools and for the children of Members on Monday, Wednesday and Friday afternoons at four o'clock, as follows:

- March 6,\*April 3\*and May 8. —Russia and Japan,  
 Dr. Edmund Otis Hovey  
 " 8, April 5 and May 10. —The Capitals of Europe,  
 Dr. Ralph W. Tower  
 " 10, April 7 and May 12. —The Industries of the United States,  
 George H. Sherwood  
 " 13, April 10 and May 15.\*—The American Indian. Harlan I. Smith  
 " 15, April 12 and May 17. —In Polar Regions. . George H. Pepper  
 " 17, April 14 and May 19. —Spanish America. George H. Sherwood  
 " 20,\*April 24\* and May 22. —The Physical Divisions of the  
 United States..... Dr. Edmund Otis Hovey  
 " 22, April 26 and May 24. —Egypt and Her Neighbors,  
 Dr. William Morton Wheeler  
 " 24, April 28 and May 26. —Our Island Possessions,  
 George H. Sherwood  
 " 27, and May 1 and 29.—Methods of Transportation, Past  
 and Present ..... Harlan I. Smith

\*On account of Dr. Hovey's absence from the City, the lectures on March 6 and April 3 were given by Mr. George H. Sherwood, and those on March 20 and April 24 by Mr. Barnum Brown. Mr. George H. Pepper delivered the lecture on May 15, owing to the illness of Mr. Harlan I. Smith.

March	31, May 5 and June 2.—New York City, Past and Present, Louis P. Gratacap
May	3 and 31.—The Work of Water.....Dr. Edmund Otis Hovey
October	16, November 13 and December 11.—A Tour of Our Philip- pine Possessions.....George H. Sherwood
"	18, November 15 and December 13.—Methods of Transpor- tation, Past and Present.....Harlan I. Smith
"	20, November 17 and December 15.—A Trip through Mex- ico to Panama.....Prof. Marshall H. Saville
"	23, November 20 and December 18.—Life Among Our In- dians.....George H. Pepper
"	25, November 22 and December 20.—City Bird Life, Frank M. Chapman
"	27, November 24 and December 22.—The Industries of the United States.....George H. Sherwood
"	30, and November 27.—The Development of New York City Louis P. Gratacap
November	1 and 29.—The Work of Water.....Dr. Edmund Otis Hovey
"	3.—Travels through Western Europe and British Isles, R. W. Miner
"	6 and December 4.—The Physical Divisions of the United States.....Dr. Edmund Otis Hovey
"	8 and December 6.—Our South American Neighbors..C. W. Mead
"	10 and December 8.—In the Nile Country.....R. W. Miner

## BOARD OF EDUCATION LECTURES.

*In Coöperation with the Museum.*

These lectures were given on Tuesday and Saturday evenings. The Tuesday evening lectures were on geographical subjects; the Saturday evening lectures consisted of several courses more technical in character.

*Tuesday Evenings.*

January	3.—India: Life, Religion and Art of the Hindus, Prof. Walter S. Perry
"	10.—India under the Great Mohammedan Conquerors; The Taj Mahal .....Prof. Walter S. Perry
January	17.—Spain of To-day, and the Alhambra, The Fairy Palace of Moorish Art.....Prof. Walter S. Perry
"	24.—Ceylon, "The Pearl of India"; and Chinese Cities, Prof. Walter S. Perry
"	31.—Japan: The Life and Customs of Her Remarkable People.....Prof. Walter S. Perry

February	7.—Korea and Manchuria : The Land of the Morning Calm and the Gibraltar of China.....	Dr. John B. Devins
"	14.—The Real Filipino.....	Arthur Stanley Riggs
"	21.—Hawaii .....	Roland S. Dawson
"	28.—Around the Historic Mediterranean.....	Lewis Gaston Leary
March	7.—Venice of the Golden Ring.....	Gerhardt C. Mars
"	14.—Vesuvius and the Bay of Naples.....	Prof. Henry E. Northrop
"	21.—Travels in Greece.....	Dr. Clarence H. Young
"	28.—Wales and Her People .....	Henry H. Parry
April	4.—Scotland.....	Peter MacQueen
"	11.—Castles and Palace Homes of England....	Prof. Sutton Fletcher
"	18.—The Cathedrals and Abbeys of Britain....	Prof. Sutton Fletcher
"	25.—The St. Louis Exposition .....	Roland S. Dawson
October	3.—Sweden and Denmark.....	Frederick E. Partington
"	10.—Norway.....	Frederick E. Partington
"	17.—Japrusa (A comparative study of Japan and Russia), Dr. John C. Bowker	
"	24.—Imperial Austria.....	Frederick E. Partington
"	31.—Dolomite Alps and Southern Tyrol....	Frederick E. Partington
November	7.—A Tramp through Switzerland.....	E. Clowes Chorley
"	14.—The Rhine and the Black Forest .....	Prof. Henry Zick
"	21.—Imperial Berlin.....	Prof. Henry E. Northrop
"	28.—The Dutch at Home and their Grand Story, Dr. William E. Griffis	
December	5.—Social, Artistic and Literary Holland....	Dr. William E. Griffis
"	12.—Paris, City of Light.....	Ernest R. Holmes
"	19.—How France is Governed.....	Ernest R. Holmes

*Saturday Evenings.*

A course of eight lectures on "Electricity," by Professor Charles L. Harrington.

January	7.—Magnetism.
"	14.—Statcal Electricity.
"	21.—Statcal Electricity.
"	28.—Dynamical Electricity.
February	4.—Dynamical Electricity.
"	11.—Dynamical Electricity.
"	18.—Wireless Telegraphy.
"	25.—Roentgen Rays ; Becquerel Rays.

A course of eight lectures on "Sound and Music," by Professor E. R. von Nardroff.

March	4.—Nature of Sound.
"	11.—Musical Tone and Stringed Instruments.
"	18.—Sympathetic Tone and Musical Timbre.

- March 25.—Simple Wind Instruments.  
 April 1.—Reed Wind Instruments.  
 “ 8.—Miscellaneous Musical Instruments.  
 “ 15.—Sound Waves and Musical Harmony.  
 “ 22.—Telephone and Phonograph.

A course of six lectures on “Evolution,” by Professor Samuel C. Schmucker.

- October 7.—A Master Mind. (An account of the life and work of Charles Darwin.)  
 “ 14.—His Master Idea. (Natural Selection.)  
 “ 21.—Down Through the Past. (The Geological History.)  
 “ 28.—What a Chicken can teach Us. (An account of embryology and domestication.)  
 November 4.—The Humming Bird’s History. (The evolution of a bird.)  
 “ 11.—The Flower’s Best Friend.

A course of three lectures on “The Industries of Animals,” by Professor Charles L. Bristol.

- November 18.—Hunting and Fishing.  
 “ 25.—Methods of Defence and Care of Young.  
 December 2.—Construction of Dwellings.

A course of three lectures on “Forestry,” by Miss Grace E. Cooley.

- December 9.—How the Forests pay their Rent.  
 “ 16.—The Struggle for Existence from the Standpoint of a Tree—  
 Ingenious Methods of Winning Success.  
 “ 23.—Forestry and the Citizen.

In concluding this my quarter of a century of service as the President of the American Museum of Natural History, I cannot refrain from referring to the Report of twenty-five years ago, when the Trustees stated that “they most respectfully appeal to the generous citizens of New York, to aid in the effort to make our Metropolitan City the centre of the highest scientific culture in our land, and to join in adding new collections and new departments to the admirable nucleus which has been already secured.” As your President it has been my constant effort to fulfil the desires as expressed by the

Trustees which were so clearly formulated at the time of my appointment, and when we view the stately building in Manhattan Square, when we wander through the exhibition halls and study the priceless collections therein displayed, when we realize that thousands of the people of our City are assembling here to listen to prominent educators, that school children are here receiving their first love for nature and their first taste of science, and that the influence of this institution is being felt throughout the civilized world, truly we can say that the appeal of 1881 to the generous citizens of New York has not remained unanswered.

Very respectfully yours,

MORRIS K. JESUP, *President.*



# FINANCIAL STATEMENT.

## *PERMANENT ENDOWMENT.*

General Fund.....	\$972,000 00
John B. Trevor Fund.....	15,000 00
Josiah M. Fiske Fund.....	10,000 00
Matilda W. Bruce Fund.....	11,000 00
Solomon Loeb Fund.....	5,000 00
	<u>\$1,013,000 00</u>

## *SPECIAL FUNDS.*

### *EAST ASIATIC COMMITTEE.*

#### RECEIPTS, 1905.

Cash on hand January 1, 1905.....	\$2,127 23	
Interest on bank balances.....	12 74	\$2,139 97

#### DISBURSEMENTS, 1905.

Salary, Dr. B. Laufer, nine months.....	\$1,125 00	
For publications.....	450 56	\$1,575 56
Cash on hand December 31, 1905.....		<u>\$564 41</u>

JOHN H. WINSER, *Treasurer.*

Correct.—E. L. MASSETT, *Auditor.*  
*December 31, 1905.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

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*CITY MAINTENANCE ACCOUNT.*

RECEIPTS.

Capital Account, January 1, 1905.....	\$15,000 00
Department of Parks.....	\$160,000 00
Transfer from General Account to meet deficit ....	19,506 41
	<hr/>
	179,506 41
Interest on Balances .....	147 31

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\$194,653 72

Examined and Approved. { ANSON W. HARD,  
                                  { GEORGE G. HAVEN, } *Auditing*  
                                  { GUSTAV E. KISSEL. } *Committee.*



CITY MAINTENANCE ACCOUNT.

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$6,211 42	
Mammalogy and Ornithology.....	8,292 10	
Mineralogy.....	3,852 31	
Vertebrate Palæontology.....	14,031 62	
Anthropology.....	15,910 23	
Entomology.....	2,747 35	
Invertebrate Zoölogy.....	8,163 05	
Physiology.....	1,767 46	
Library.....	9,479 24	
Public Instruction.....	150 47	
Preparation and Exhibition.....	16,171 22	
General Supplies and Expenses.....	6,635 36	
Heating and Lighting.....	22,412 04	
Repairs and Installation.....	16,637 95	
Administration.....	47,039 54	
	<hr/>	\$179,506 41
Interest on Balances transferred to General Account.		147 31
Cash on hand December 31, 1905.....		15,000 00
		<hr/>
		\$194,653 72
		<hr/> <hr/>

CHARLES LANIER, *Treasurer*.

[E. & O. E.]

New York, *December 31, 1905.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT AND INVESTMENT ACCOUNT.

RECEIPTS.

MAMMALOLOGY AND ORNITHOLOGY:

North American Ornithology Fund:

Balance from 1904.....	\$343 89	
John L. Cadwalader.....	500 00	
Mrs. Harriet L. Schuyler.....	200 00	
Henry Clay Pierce.....	500 00	
H. B. Hollins.....	250 00	
F. Aug. Schermerhorn.....	250 00	
Henry W. Poor.....	500 00	
Lewis C. Ledyard.....	250 00	

\$2,793 89

D. Stuart Dodge Gift..... 50 00

\$2,843 89.

MINERALOGY AND CONCHOLOGY:

Frederick A. Constable Gift..... \$84 98

Matilda W. Bruce Fund:

Balance from 1904.....	\$390 34	
Interest.....	660 00	1,050 34

1,135 32

VERTEBRATE PALÆONTOLOGY:

Pampean Collection of Fossils:

Balance from 1904.....	\$329 17	
E. H. Harriman Fund.....	900 00	

1,229 17

ANTHROPOLOGY:

Hyde Exploration Fund; B. T. B. Hyde.....	\$1,200 00	
International Congress of Americanists, balance.	1,244 68	
Ethnological Research Fund.....	86 65	
Wm. Demuth Collection of Pipes.....	179 67	
Berlin North American Fund.....	123 50	
Bureau of Missions Fund.....	1,500 00	
G. S. Bowdoin Gift.....	1,300 00	
J. P. Morgan Gift.....	2,500 00	
North American Research Fund; Morris K. Jesup.	5,252 79	

13,387 29

FORESTRY:

Mrs. C. P. Huntington Fund, balance..... 124 33

**Total receipts for the development of specific departments.....**

\$18,720 00

PERMANENT ENDOWMENT:

Transfer from General Account pending investment..... 1,000 00

INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1905..... 135 32

\$19,855 32

Examined and Approved. { ANSON W. HARD, } Auditing  
 { GEORGE G. HAVEN, } Committee.  
 { GUSTAV E. KISSEL. }

ENDOWMENT AND INVESTMENT ACCOUNT.

DISBURSEMENTS.

MAMMALOGY AND ORNITHOLOGY :

North American Ornithology Fund.....	\$1,224 44	
D. Stuart Dodge Gift .....	50 00	
	<u>          </u>	\$1,274 44

MINERALOGY AND CONCHOLOGY :

Frederick A. Constable Gift.....	\$84 98	
Matilda W. Bruce Fund.....	818 80	
	<u>          </u>	903 78

VERTEBRATE PALÆONTOLOGY :

Pampean Collection of Fossils.....	\$329 17	
E. H. Harriman Fund.....	825 56	
	<u>          </u>	1,154 73

ANTHROPOLOGY :

Hyde Exploration Fund.....	\$1,200 00	
International Congress of Americanists.....	1,244 68	
Ethnological Research Fund.....	39 10	
Wm. Demuth Collection of Pipes.....	97 50	
Bureau of Missions Fund.....	660 00	
G. S. Bowdoin Gift.....	1,151 41	
J. P. Morgan Gift.....	2,500 00	
North American Research Fund.....	4,908 36	
	<u>          </u>	11,801 05

<b>Total disbursements for the development of specific departments.....</b>	<u>          </u>	<b>\$15,134 00</b>
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Interest on Credit Balances, transferred to General Account.....		135 32
Cash on hand December 31, 1905.....		4,586 00

\$19,855 32

[E. & O. E.]

CHARLES LANIER, *Treasurer.*

NEW YORK, *December 31, 1905.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

GENERAL ACCOUNT.

RECEIPTS.

Cash on hand January 1, 1905.....		\$2,102 58
Interest on Permanent Endowment.....	\$47,200 00	
Interest on Credit Balances.....	282 63	
Patron: Seth Low.....	1,000 00	
Life Members:		
Jens Skougaard.....	\$100 00	
Miss Katharine L. Cammann.....	100 00	
Thomas T. Eckert, Jr.....	100 00	
Henry Phipps.....	100 00	
Guy R. McLane.....	100 00	
J. E. Childs.....	100 00	
Richard L. Walsh.....	100 00	
J. W. Dimick.....	100 00	
Abram G. Nesbitt.....	100 00	
George A. Kessler.....	100 00	
William Zeigler.....	100 00	
Charles D. Miller.....	100 00	
Wm. B. Dickerman.....	100 00	
Allen W. Evarts.....	100 00	
Acosta Nichols.....	100 00	
Seymour Perkins.....	100 00	
Amos F. Eno.....	100 00	
Henry deF. Weekes.....	100 00	
James Gilbert White.....	100 00	
James Dugald White.....	100 00	
Charles J. Harrah.....	100 00	
O. H. Payne.....	100 00	
George R. Sheldon.....	100 00	
Charles E. Milmine.....	100 00	
Trenor L. Park.....	100 00	
H. A. C. DeRubio.....	100 00	
George McKesson Brown.....	100 00	
Edward K. Dunham.....	100 00	
William S. Thomas, M.D.....	100 00	
James A. Macdonald.....	100 00	
S. T. Armstrong, M.D.....	100 00	
	3,100 00	
Annual Members.....	14,775 00	
Henry F. Osborn, for support of the Department of Vertebrate Palæontology.....	2,000 00	
Admission Fees.....	1,097 50	
Sale of Specimens and Reimbursements.....	5,006 24	
Sale of Publications.....	333 95	74,795 32
		\$76,897 90

Examined and Approved. { ANSON W. HARD,  
GEORGE G. HAVEN,  
GUSTAV E. KISSEL. } Auditing  
Committee.

GENERAL ACCOUNT.

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$1,947 86	
Mammalogy and Ornithology.....	4,427 81	
Mineralogy.....	204 17	
Vertebrate Palæontology.....	9,198 00	
Anthropology.....	5,619 43	
Entomology.....	314 55	
Invertebrate Zoölogy.....	828 69	
Library.....	5,641 17	
Physiology.....	40 90	
Public Instruction.....	3,416 24	
Preparation and Exhibition.....	1,668 13	
Publications.....	11,273 83	
General Supplies and Expenses.....	5,169 00	
Philippine Island Collection.....	4,521 08	
Endowment and Investment Account:		
Transferred to Endowment and Investment Ac- count pending investment.....	1,000 00	
City Maintenance Account:		
Transfer to this account to balance deficit.....	19,506 41	
Interest on Loans and Overdrafts.....	107 96	
		\$74,885 23
Cash on hand December 31, 1905.....		2,012 67

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\$76,897 90

CHARLES LANIER, *Treasurer.*

[E. & O. E.]  
NEW YORK, December 31, 1905.

# LIST OF ACCESSIONS, 1905.

## DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

### BY GIFT.

PROF. N. L. BRITTON, New York City.

- 3 Specimens of *Chama macrophylla* from Berry Islands, Bahamas.
- 8 Species of corals and shells from Lignum Vitæ Key, Berry Islands, Bahamas.
- 5 Valves of *Chama*, and group of several.
- 1 *Arca*, 1 *Pectunculus*, 1 *Hipponyx*.
- 1 Fragment of *Diploria cerebriformis*.
- 2 *Dichocania porcina* from Goat Key, Berry Islands, Bahamas.
- 5 *Lucina aurantia*, 1 valve and 1 group of *Chama*, 2 undetermined shells from Great Bahamas.

R. S. BROOKS, El Paso, Texas.

- 10 Specimens of ores from Mulatos, Sonora, Mexico.

J. H. CHASE, Buffalo, N. Y.

- 1 Small specimen of *Septaria* from Lake regions of New York.

COPPER QUEEN CONSOLIDATED MINING COMPANY, Bisbee,  
Arizona.

- Specimens of ores.

D. W. FURGUSON, Staten Island, N. Y.

- 1 *Trigonia thoracica*.

STANDARD PLUNGER ELEVATOR COMPANY, New York City.

- 12-inch drill-core through garnetiferous gneiss, from Trinity Building, N. Y.

THOMAS H. GEE, New York.

- 2 Specimens *Pectunculus* n. sp. in iron-stone concretion, from Flushing Cemetery, N. Y.

L. P. GRATACAP, New York City.

- A large series of fossils from the Calciferous and Lower Carboniferous rocks from Port au Port, Newfoundland.

- DR. J. COLIN VAUGHAN, Newark, N. J.  
 Ammonites and shells from Jurassic formation, Franz Josef Land.
- UTAH STATE COMMISSIONERS, Lewis & Clark Exposition.  
 Ores from the principal mines of the State.
- IDAHO STATE COMMISSIONERS, Lewis & Clark Exposition.  
 Ores from some of the principal mines of the State.
- WYOMING STATE COMMISSIONERS, Lewis & Clark Exposition.  
 Ores and oils.
- CALIFORNIA STATE COMMISSIONERS, Lewis & Clark Exposition.  
 Large series of oils and ores.
- COLORADO STATE COMMISSIONERS, Lewis & Clark Exposition.  
 Several specimens of ores.
- W. B. FOSTER, Yukon, Alaska.  
 A series of ores and rocks from Alaska.

BY PURCHASE.

- 2 *Heliophyllum obliquum*.  
 2 *Heliophyllum inflexum*.  
 1 *Heliophyllum sulcatum*.  
 4 *Cystiphyllum crenatum*.  
 1 *Cystiphyllum conspicuum*.  
 4 *Zaphrentis caliculus*.  
 2 *Zaphrentis callosa*.  
 2 *Platyceras dumosum*.  
 4 *Heliophyllum conditum*.  
 2 *Nautilus liratus*.  
 1 *Tricalocrinus woodmani*.  
 1 *Cystiphyllum greenii*.  
 1 Large block of *Pentamerus oblongus*.  
 336 Rocks with corresponding thin sections to illustrate Rosenbusch's classification of rocks.  
 Series of specimens of Platinum, Gold, Monazite, Garnet, Magnetite, etc., obtained at the Lewis & Clark Exposition by treatment of beach and river sands on concentrating tables.  
 About 200 specimens of ores and rocks representing the mineral resources of Oregon.

THROUGH MUSEUM EXPEDITIONS.

- 2 Boxes of Post-pliocene fossils from San Pedro, California, collected by E. O. Hovey.
- GREENE EXPLORING EXPEDITION.
- 325 Specimens of rocks and ores collected by E. O. Hovey, in Sonora and Chihuahua, Mexico.
- 425 Negatives made by E. O. Hovey, in Sonora and Chihuahua.

## BY EXCHANGE.

- 1 *Actinocrinus multivamosus*.  
 1 *Agaricocrinus splendens*.  
 1 *Acrocrinus immaturus*.  
 1 *Cactocrinus nodobrachiatus*.  
 1 *Dichocrinus inornatus*.  
 1 *Dorycrinus mississippiensis*.  
 1 *Macrocrinus jucundus*.  
 1 *Platycrinus agassizi*.  
 1 *Platycrinus symmetricus*.  
 1 *Rhodocrinus kirbyi*.  
 1 *Rhodocrinus watterianus*.  
 Slab with 3 *Rhodocrinus kirbyi* and 2 *Dichocrinus inornatus*.  
 Specimens of the rocks and ores of Butte, Montana.

 DEPARTMENT OF MAMMALOGY AND  
 ORNITHOLOGY.

## MAMMALS.

## BY GIFT.

- J. H. BATTY, New York City.  
 358 Specimens from Chiriqui, Panama.
- N. H. BISHOP, Tuckerton, N. J.  
 2 Franklin Spermophiles.
- GEORGE S. BOWDOIN, New York City.  
 8 Hippopotamus skulls from Lake Nyami, South Africa, 4 Giraffe skulls from Bechuanaland, South Africa.
- W. S. CHAMP, Ziegler Polar Expedition.  
 1 Walrus skin and skull.
- FRANK M. CHAPMAN, Englewood, N. J.  
 1 Squirrel from Florida.
- AUSTIN CORBIN ESTATE.  
 1 Buffalo.
- WILLIAM T. COX, New York City.  
 1 Grizzly Bear skin.
- DEPARTMENT OF PARKS, New York City.  
 14 Monkeys, 3 Marmosets, 1 Leopard, 1 Lynx, 2 Foxes, 1 Skunk, 1 Coatimondi, 4 Nylghaus, 1 Elk, 2 Mexican Deer, 1 Axis Deer, 2 Virginia Deer, 1 Llama, 1 Spotted Leopard, 1 Deer, 1 Wildcat, 1 Aoudad, 1 Puma, 1 Eskimo Dog.—Total, 40 specimens received in the flesh.



- JONATHAN DWIGHT, JR., M. D., New York City.  
1 Opossum, 1 Prairie Dog, 2 Chipmunks, 1 Flying Squirrel.
- C. R. DUFFY, New York City.  
1 Whale vertebra.
- J. S. EDWARDS, Tacoma, Wash.  
1 Anteater.
- BURT HARLEY, New York City.  
1 Black-and-tan Terrier.
- DR. E. A. LEWIS, Englewood, N. J.  
1 Weasel.
- C. A. MOORE, JR., New York City.  
2 Deer skins, 1 Beaver skull.
- R. T. MORRIS, M. D., New York City.  
1 Woodchuck from Hudson Bay.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
1 Gorilla, 1 Mandrill, 2 Pigtail Monkeys, 1 Lemur, 1 Lion, 1 Hunting Leopard, 1 Snow Leopard, 3 Pumas, 1 Lynx, 1 Raccoon-dog, 1 Blue Fox, 2 Gray Foxes, 1 Grizzly Bear, 1 Bearded Seal, 1 Harbor Seal, 2 Sea-lions, 2 Black-footed Ferrets, 1 Weasel, 1 Meerkat, 1 Suricate, 1 Crab-eating Mongoose, 3 Genets, 1 Coati-mondi, 1 Punjab Sheep, 2 Blue Sheep, 1 Burbel Sheep, 2 Mountain Goats, 1 Nylghau, 1 Buffalo, 1 Anoa, 1 Sacred Cow, 1 White-tailed Gnu, 1 Blesbock, 1 Blackbuck, 1 Duiker Antelope, 2 Muntjacs, 4 Axis Deer, 1 Sambar Deer, 1 Hog-nosed Deer, 1 Pampas Deer, 1 Wapiti Deer, 1 Fallow Deer, 1 Chinese Water Deer, 1 Cuban Deer, 1 Marsh Deer, 1 Zebra, 1 Llama, 1 Agouti, 1 Capromys, 1 Egyptian Jumping Rat, 1 Olive Squirrel, 1 African Porcupine, 1 Canadian Porcupine, 1 Phalanger, 2 Wallabys, 1 Armadillo, 1 Echidna, 1 Dolphin, 1 Ovis, 1 Anteater, 1 Cuban Rat, 1 Wild-cat.—Total, 77 specimens received in the flesh from the New York Zoölogical Society and the New York Aquarium.
- O. R. OLSEN, Hoodsport, Wash.  
1 Beaver.
- MISSIS PLACE, New York City.  
Antlers of California Elk.
- F. A. SCHNEIDER, Brooklyn, N. Y.  
1 Chipmunk.
- ERNEST THOMPSON SETON, Cos Cob, Conn.  
2 Rabbits.
- MRS. E. T. SHORT, New York City.  
1 Manx Cat.

- GERALD H. THAYER, Monadnock, N. H.  
3 Specimens from Trinidad, B. W. I.
- DR. W. M. WHEELER, Bronxville, N. Y.  
1 Spermophile.
- CHRISTINA G. WHITNEY, New York City.  
1 Bloodhound.
- A. WOODWARD, New York City.  
1 Buffalo Calf Skin.
- MRS. E. M. Ziegler (through W. S. Champ).  
1 Mounted Polar Bear.

## BY EXCHANGE.

13 Specimens from Panama.

## BY PURCHASE.

48 Specimens from Philippine Islands, 10 from Africa and India, 47 from Hudson Bay, 25 from Costa Rica, 4 from British Honduras.

## THROUGH MUSEUM EXPEDITIONS.

- 14 Specimens (11 Beavers, 3 Deer) from the Olympic Mountains, Washington. Collected by J. D. Figgins.
- 1508 Specimens from Mexico. Collected by J. H. Batty.

## BIRDS.

## BY GIFT.

- MRS. HARRIET B. BAILEY, New York City.  
Small collection of birds' nests.
- J. H. BATTY, New York City.  
525 Specimens from Chiriqui, Panama.
- NATHAN C. BROWN, Portland, Maine.  
17 beautifully prepared skins of small birds from Eastern United States.
- MRS. JULIA H. CHADWICK, Washington, D. C.  
Group of mounted Quail from New Jersey.
- J. CHAPIN, Staten Island, N. Y.  
1 Chimney Swift.

DEPARTMENT OF PARKS, New York City.

1 Tern, 7 Swans, 4 Eagles, 2 Hawks, 2 Great Horned Owls, 1 Sand Grouse, 2 Pigeons, 4 Pheasants, 1 Partridge, 32 Parrots, Macaws and Cockatoos, 1 Cuckoo, 1 Nighthawk, 1 Golden-winged Woodpecker, 2 Crows, 1 European Blackbird.—Total, 62 specimens received in the flesh from the Central Park Menagerie.

J. GRAEME DREW, Demster, N. Y.

1 American Golden-eyed Duck.

WILLIAM DUTCHER, New York City.

1 Yellow-headed Blackbird.

CAPT. BASIL H. DUTCHER, Medical Corps, U. S. A.

1 Merriam Turkey from Arizona.

J. DWIGHT, JR., M. D., New York City.

9 Ducks from Long Island.

J. S. LAMSON, Summit, N. J. (through Le Rue K. Holmes).

6 Birds from Tobago, B. W. I.

FRANK MILLER, New Orleans, La.

1 Forster's Tern.

JOHN MOMMERS, New York City.

1 Woodcock.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Ostrich, 2 Rheas, 1 Emu, 1 Penguin, 1 Ivory Gull, 2 Storks, 1 Eagle.—Total, 9 specimens received in the flesh.

ERNEST THOMPSON SETON, Cos Cob, Conn.

9 Scaup Ducks, 1 Hawk.

I. M. VAN WAGNER, Fairview, N. J.

1 Bronzed Grackle.

BY EXCHANGE.

18 Specimens from Alaska, Hawaiian Islands, etc., 3 Tanagers from Colombia, 34 specimens from Pearl Islands, Bay of Panama.

BY PURCHASE.

33 Specimens from British Honduras, 1,000 specimens from the Philippine Islands.

THROUGH MUSEUM EXPEDITIONS.

MEXICAN EXPEDITION.

1655 Specimens from western Mexico. Collected by J. H. Batty.

FLORIDA EXPEDITION (North American Bird Group Fund).

25 Specimens from Florida. Collected by Frank M. Chapman.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

BY GIFT.

GOVERNOR DON ENRIQUE CREEL, Chihuahua, Mexico.

Molar of Imperial Mammoth from Chihuahua.

PROF. BASHFORD DEAN, New York City.

Series of supposed fish remains from Canyon City, Colo.

DR. F. B. LOOMIS, Amherst, Mass.

Four named specimens of Eocene mammals.

CHARLES REDMOND (through J. B. Tyrrell), Dawson, Yukon Territory, Canada.

Foot-bones of fossil horse from Yukon Territory.

IN EXCHANGE.

PEABODY MUSEUM, Yale University, New Haven, Conn.

Series of casts of type specimens of fossil mammals described by Prof. Joseph Leidy.

Fragments of skull and teeth supposed to belong to the mounted skull of *Loxolophodon* in the American Museum, Cope Collection.

Casts of jaws of a unique *Mylostoma*.

IMPERIAL MUSEUM, St. Petersburg, Russia.

2 casts of *Helicoprion*.

MUSEUM OF COMPARATIVE ZOÖLOGY, Cambridge, Mass.

Casts of several fish remains.

BY PURCHASE.

Collection of fossil mammals from the Big Badlands of South Dakota, by H. F. Wells, 1905.

Specimen of *Acanthurus* from the West Indies.

4 casts of sharks and chimæroids from the Geological Museum, Munich.

THROUGH MUSEUM EXPEDITIONS.

DEVONIAN OF OHIO.

Series of specimens of primitive fossil fish, including especially valuable specimens of *Cladoselache*, *Dinichthys*, *Titanichthys* and *Rhynchodus*.

JURASSIC OF BONE-CABIN QUARRY, WYOMING.

Series of specimens of Jurassic Dinosaurs, including especially a skeleton of a small herbivorous kind, probably *Laosaurus*, and several limbs and feet of large amphibious and carnivorous species.

LARAMIE CRETACEOUS OF MONTANA.

Additional parts of the skeleton of the gigantic carnivorous Dinosaur, *Tyrannosaurus*; hind limbs of another individual of the same; skeleton of Duck-billed Dinosaur, and parts of skeletons of other dinosaurs.

EOCENE OF WYOMING.

- 235 Specimens of fossil mammals and 15 of fossil reptiles from the Bridger Basin, including skeletons of four-toed horse, *Orohippus*, primitive rhinoceros, *Hyrachyus*, primitive rodent, *Paramys*, primitive carnivore, *Tritemnodon*, and skulls and parts of skeletons of various primitive rodents, carnivores, rhinoceroses, titanotheres and artiodactyls.
- 129 Specimens of fossil mammals (none very complete), from the Wind River Basin.

DEPARTMENT OF ANTHROPOLOGY.

BY GIFT.

- WM. BAACKE, New York City.  
1 Shell fish-hook from Long Island.
- DANIEL BACON, New York City.  
1 Blow-gun and poisoned arrows from South America.
- MRS. ALBERT BIERSTADT, New York City.  
10 California Indian baskets, 6 wooden carvings from Alaska, together with a number of objects from various Indian tribes.
- DR. S. A. BINION, New York City.  
Blubber bag from Labrador.
- GEORGE S. BOWDOIN, New York City.  
A large collection of ethnological specimens from Africa.
- MRS. GEORGE BRUCK, New York City.  
1 Basket from the Aleutian Islands.
- ALEXANDER CRAIN, Econtuchka, Oklahoma.  
Carving on stone of human footprints, from Oklahoma Territory.
- CHARLES B. CROOK, New York City.  
Head-dress from British East Africa.
- By transfer from DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.  
1 Set of Eskimo bolos from Alaska.
- WM. DÉMUTH, New York City.  
A collection of pipes and smoking utensils, including one pipe from Africa and one Blackfoot medicine pipe.
- LIEUT. GEORGE T. EMMONS, Princeton, N. J.  
1 Blanket loom and 1 set of gambling-sticks.
- MISS ADELE FIELD, New York City.  
1 Chinese money scale.
- MRS. DAVID COLES HALSTEAD, New York City.  
1 Stone axe from Long Island.

- GEORGE G. HEYE, New York City.  
290 Pieces of prehistoric pottery from Socorro, New Mexico.
- MORRIS K. JESUP, New York City.  
An exhaustive collection, numbering thousands of specimens, from the non-Christian and Christian tribes inhabiting various provinces in the Philippine Islands.
- ADOLPH LEWISOHN, New York City.  
A collection of Tlingit baskets and numerous ceremonial objects from Alaska.
- PAUL C. MILLER, New York City.  
1 Grinding stone from Wyoming.
- MISSOURI HISTORICAL SOCIETY, St. Louis, Mo.  
A plaster model of Cahokia Mound.
- J. PIERPONT MORGAN, New York City.  
1 "Mummy" from Chile.
- MRS. ALEXANDER L. MORTON, New York City.  
15 Small costumed wax figures from Mexico.
- NARRAGANSETT LIBRARY ASSOCIATION, Peacedale, R. I.  
19 Chipped stone implements.
- DR. FRANCIS C. NICHOLAS, New York City.  
4 Pieces of pottery from Colombia, S. A.
- D. W. OWEN, Kenewick, Washington.  
9 Archæological specimens from Washington.
- WM. BARCLAY PARSONS, New York City.  
A collection of Chinese razors, knives and combs.
- C. M. RABADAN, New York City.  
1 Mummy from Ancon, Peru.
- E. RUNGE, New York City.  
Envelopes and letter-paper from China, also a leather falcon-hood.
- F. B. SMITH CONTRACTING COMPANY, New York City.  
1 Large stone mortar from 149th Street and St. Ann's Avenue, New York City.
- J. W. STAFFORD, New York City.  
1 Skeleton from the Cliff Dwellings of New Mexico.
- A. THOMPSON, New York City.  
1 Indian tomahawk from South Dakota.
- DR. L. A. THOMPSON, U. S. Navy.  
1 Skull from Easter Island.
- T. VAN HYNNING, Des Moines, Iowa.  
15 Stone axes, 4 celts and 3 stone discs.
- GILES WHITNEY, New York City.  
1 Skull.

THROUGH MUSEUM EXPEDITIONS.

- Specimens from the Blackfoot Indians. Collected by D. C. Duvall.  
Specimens from the Central Eskimo. Collected by Capt. George Comer.  
Specimens from the Mission Indians of California. Collected by Miss Constance G. DuBois.  
Specimens from the Ojibway Indians. Collected by Dr. Wm. Jones.  
Specimens from the State of Washington. Collected by Edward Sapir.  
Specimens from the Uchee Indians of Indian Territory. Collected by Frank G. Speck.  
Specimens from the Yukon River, Alaska. Collected by Rev. J. Chapman.

BY EXCHANGE.

- LIEUT. GEORGE T. EMMONS, Princeton, N. J.  
5 Stone pipes from Thompson Indians, 2 carved steatite dishes, 1 arrow smoother.  
DE COST GOMEZ.  
1 Piece of pottery from Peru.  
FIELD COLUMBIAN MUSEUM, Chicago, Ill.  
Quarry rejects from Oklahoma.  
KÖNIGLICHE MUSEUM FÜR VÖLKERKUNDE, Berlin, Germany.  
6 Casts of bone clubs from North America.  
KÖNIGLICHE NATURALIEN CABINET, Stuttgart, Germany.  
3 Swabian skulls.  
PEABODY MUSEUM, New Haven, Conn.  
9 Eolithic specimens.  
UNITED STATES NATIONAL MUSEUM, Washington, D. C.  
4 Plaster busts of American Indians.

BY PURCHASE.

- 1 Crow shield and 1 grain bag.  
180 Pieces of pottery from Colombia, S. A.  
7 Embroidered Chinese scrolls.  
1 Haida mask.  
1 Apache basket.  
1 Buffalo-hide thong and invitation sticks from Dakota.  
A collection of specimens from the Congo Region, Africa.  
1 Stone mortar from Washington.  
1 Carved object from Alaska.  
39 Skulls from British Columbia.  
Lemby collection of specimens from South America.  
A small Eskimo collection from Alaska.  
86 Chinook Indian skulls.  
A small Sioux Indian collection.

## MEXICAN AND CENTRAL AMERICAN ARCHAEOLOGY.

BY EXCHANGE.

GEORGE G. HEYE, New York City.

213 Specimens of Tarascan, Matlaltzincan, Nahuatl and Zapotecan antiquities.

## DEPARTMENT OF ENTOMOLOGY.

BY GIFT.

MISS ANNETTE BRAUN, Cincinnati, Ohio.

Specimens of galls from Cincinnati, Ohio.

J. R. DE LA TORRE BUENO, New York City.

18 Aquatic Hemiptera from India.

DR. EDWIN CHAMBERLIN, New York City.

1 Wasps' nest (*Vespa maculata*).

T. D. A. COCKERELL, Colorado Springs, Colo.

7 Species of Coccidæ from Colorado.

F. H. CHITTENDEN, Washington, D. C.

Specimens of *Attagenus piceus* and *Dermestes lardarius*.

J. H. M. COOK, New York City.

Queen cells of honey-bee.

E. DAECKE, Philadelphia, Pa.

Part of nest of *Vespa germanica*.

WM. T. DAVIS, Staten Island, N. Y.

Nest of *Trypoxylon* sp.4 *Emesia longipes*.

CHARLES DURY, Cincinnati, Ohio.

2 *Ctenophora topazina*.1 *Melaphora orsina*.

DR. E. P. FELT, Albany, N. Y.

Specimens of *Dermestes lardarius* and *Anthrenus scrophulariæ*.

MISS ALBERTA FIELD, Ashtabula, Ohio.

Specimens of galls of *Asphondylia conspicua*.

DR. JAMES FLETCHER, Ottawa, Canada.

Male and female of *Apocheima rachele* from Arverne, Manitoba Canada.1 Example of *Leucobrepophos middendorfi*.Specimens of *Dermestes lardarius* and *Attagenus piceus*.



PROF. C. P. GILLETTE, Fort Collins, Colorado.

Type specimens of galls of *Rhodites fusiformis*, *Diastrophus kincaidi*, *Holcaspis vernus*, *Holcaspis rubens*, *Holcaspis bassetti*, *Holcaspis monticola*, *Holcaspis brevipennis*, *Amphibolips cooki*, *Acraspis undulata*, *Acraspis villosus*, *Dryophanta glabra*, *Antistrophus silphii*, *Antistrophus rufus*, *Neuroterus nigrum* and *Andricus frequens*.

Type specimens of gall flies of *Holcaspis monticola*, *Holcaspis rubens*, *Holcaspis brevipennis*, *Acraspis undulata*, *Dryophanta glabra*, *Neuroterus vernus*, *Rhodites fulgens*, *Synergus atripes*, *Synergus erinacei*, *Synergus punctata* and *Synergus incisus*.

MESSRS. G. A. GOSS AND A. D. DODGE, Waterbury, Conn.

A number of beetles from Mt. Kinabalu, Borneo.

A collection of butterflies and moths from Borneo.

CARL HARTMAN, Austin, Texas.

A collection of oak galls from Austin, Texas.

MISS RUTH HARVEY, Cincinnati, Ohio.

Specimens of Cecidomyid galls on *Celtis occidentalis*.

ESTATE OF DR. GEORGE HYSLOP, New York City.

2 Hercules beetles (*Dynastes hercules*).

W. W. LATHROP, Bridgeport, Conn.

Combs of honey-bee built on a branch of a tree.

MISS MAHONEY, New York City.

A few insects from Liberia, Africa.

DR. GUSTAV MAYR, Vienna, Austria.

A number of insect-galls from Europe.

DR. J. M. MCGREGOR, New York City.

Specimens of drones and workers of Tunisian and golden Italian honey-bees.

W. DEW. MILLER, Plainfield, N. J.

4 *Cychnus elevatus*.

PROF. JAMES NEEDHAM, Lake Forest, Ill.

Specimens of a new species of *Cecidomyia* on goldenrod.

CHARLES PALM, New York City.

1 pair *Strategus cessus* from Arizona.

A small collection of Diptera from the United States.

CAPT. WIRT ROBINSON, Fort Totten, N. Y.

A colored drawing of *Pseudosphinx tetrio*.

A number of Lepidoptera from Cuba.

3 *Papilio andraemon* and other Lepidoptera from Santiago, Cuba.

Insects from Jamaica, B. W. I.

WM. SCHAUS, London, England.

A collection of 26,000 unmounted butterflies and moths from Mexico and South America.

E. SHOEMAKER, Brooklyn, N. Y.

2 *Orthodes vecors* from Long Island, N. Y.

MRS. A. F. SLOSSON, New York City.

3 Specimens of *Ignotus enigmaticus*.

ELLISON A. SMYTH, Blacksburg, Va.

2 *Catocala marmorata* from Virginia.

J. J. VIELE, Bronxville, N. Y.

Specimens of drone cells and Italian and German honey-bees.

DR. WM. M. WHEELER, Bronxville, N. Y.

Nest of an ant (*Oecophylla smaragdina*) from Ceylon, India.

A number of rare insects from Arizona, etc.

Cotypes of *Apteronina schmitti* and *Dinardilla liometopi*.

2 *Vespa maculata* from Bronxville, N. Y.

Specimens of Cecidomyid galls on maple.

Nest of a species of ant (*Cremastogaster lineolata*) from Colorado.

MRS. W. F. WINSER, New York City.

Nest of *Vespa maculata* from Georgia.

N. YATSU, New York City.

2 Insects from Misaki, Japan.

#### BY PURCHASE.

A fine collection of Orthoptera containing 255 species and 825 specimens.

A swarm of living honey-bees.

A collection of beetles from Adana, Asia Minor.

A collection of mosquitoes from New Jersey and other states.

A collection of insects from Newfoundland.

A collection of Aquatic Hemiptera.

A collection of butterflies from Tugela River, South Africa.

A collection of insects from Sumatra.

Specimens of beeswax from the Philippine Islands.

#### THROUGH MUSEUM EXPEDITIONS.

A collection of insects from Mexico, made by J. H. Batty.

A collection of insects from Arizona, made by Dr. Wm. M. Wheeler.

Specimens of insect-galls collected in the vicinity of New York by Wm. Beutenmüller.

## DEPARTMENT OF MINERALOGY AND CONCHOLOGY.

## MINERALOGY.

## BY GIFT.

J. H. ADAMS, New York City.

Feldspar, Actinolite and Titanite from a dolomite vein, Jerome Avenue and 205th Street, New York City.

HENRY ANTHES, New York City.

Large flint; ballast from Westchester County, N. Y.

J. H. BATTY, New York City.

Specimens of Obsidian, Jalisco, Mexico.

## THE MATILDA W. BRUCE FUND.

2 Specimens of Andorite from Bolivia.

1 " " Apophyllite from Michigan.

2 " " Azurite from Bolivia.

3 " " Beryl from Connecticut.

1 " " Blende from Colorado.

1 " " Cabrerite from Greece.

1 " " Calaverite from Colorado.

1 " " Calcite from Texas.

1 " " Calcite from Missouri.

2 " " Carnotite from Colorado.

1 " " Cerussite from Arizona.

1 " " Chabazite from New Jersey.

1 " " Chalcedony from California.

4 " " Chalcocite from Montana.

1 " " Chalcopyrite from France.

1 " " Chalcopyrite from Colorado.

4 " " Copper from Michigan.

4 " " Covellite from Montana.

1 " " Cuprite from Arizona.

1 " " Danburite from Switzerland.

1 " " Emery from New York.

1 " " Enargite from Montana.

1 " " Fluorite from Ohio.

1 " " Gadolinite from Norway.

2 " " Garnet from California.

11 Nuggets of Gold from Australia.

1 Specimen of Gold (mustard) from Australia.

1 " " Guanajuatite from Mexico.

1 " " Hessite from Transylvania.

1 " " Hutchinsonite from Switzerland.

1 " " Jade (labret).

5	Specimens of	Kalgoorlite	from	Australia.
1	“	“	Lengenschite	from Switzerland.
1	“	“	Lepidolite	from California.
1	“	“	Limonite	from Michigan.
1	“	“	Magnetite	from New York.
1	“	“	Pentlandite	from Ontario.
1	“	“	Petzite	from Colorado.
1	“	“	Pollucite	from Maine.
1	“	“	Powellite	from Michigan.
2	“	“	Prehnite	from Lower California.
3	“	“	Pyrite	from Colorado.
1	“	“	Pyrite	from Montana.
2	“	“	Quartz	from New Jersey.
1	“	“	Quartz	from Oklahoma.
1	“	“	Quartz	from Colorado.
1	“	“	Richmondite	from New Zealand.
1	“	“	Scorodite	from Brazil.
2	“	“	Silver	from Michigan.
1	“	“	Slickenside	from Montana.
1	“	“	Smithite	from Switzerland.
3	“	“	Spodumene	from California.
1	“	“	Stannite	from Bolivia.
1	“	“	Stilbite	from Nova Scotia.
2	“	“	Topaz	from California.
2	“	“	Topaz	from New Hampshire.
1	“	“	Trechmannite	from Switzerland.
1	“	“	Volborthite	from Utah.

SIR C. PURDON CLARKE, New York City.

1 Specimen of Malachite from Russia.

FRANKLIN COUCH, Peekskill, N. Y.

1 Specimen of Dolomite from New York.

WILLIAM H. CRANE, New York City.

2 Specimens of Quartz from California.

1 “ “ Mica from California.

1 “ “ Amblygonite from California.

HON. ENRIQUE CREEL, Chihuahua, Mexico.

2 Specimens of Calcite and Silver from Mexico.

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

2 Specimens of Manhattan Schist from St. George, S. I.

CHARLES EFROSS, Texas.

4 Specimens of Efrosite from Texas.

JOHN HÜLSS, Brooklyn, N. Y.

A Series of Monazite Sands and Rock from North Carolina

DR. GEORGE F. KUNZ, New York City.

1 Specimen of Naëgite from Japan.

1 " " Fergusonite from Japan.

EMANUEL LEVY, New York City.

28 Specimens of Gum Copal with inclusions.

21 " " Amber.

J. PIERPONT MORGAN, New York City.

A collection being an additional installment to the Morgan Gem Cabinet, containing cut and uncut gems and minerals: Agate, Amethyst, Andalusite, Beryl, Calcite, Carnelian, Chalcedony, Chrysoprase, Cyanite, Datolite, Dumartierite, Emerald, Epidote, Farasite Coral, Gahnite, Garnet, Gold, Hornblende, Hyalite, Iolite, Jade, Jadeite, Kunzite, Malachite, Opal, Peridot, Phenacite, Prehnite, Quartz, Rhodonite, Ruby, Sapphire, Sunstone, Sylvanite, Topaz, Tourmaline, Turquoise, Uthahlite, Wernerite and Wollastonite.

W. H. NIXON, New York City.

1 Specimen of Magnetic Ore.

PROF. J. A. PAINE, New York City.

1 Specimen of Garnet from New York.

N. F. UNDERWOOD, Bloomfield, N. J.

2 Specimens of Muscovite from Pennsylvania.

W. H. D. WASHINGTON, New York City.

A number of Garnets from North Carolina.

C. WEBER, Jersey City, N. J.

1 Specimen of Diabantite from N. Bergen, N. J.

M. A. YESHILIAN, New York City.

Specimens of Manganiferous Schists from 136th Street and Convent Avenue, and Dolomite from 135th Street and Viaduct.

NEWFOUNDLAND EXPEDITION.

A collection of ores from various localities in Newfoundland.

J. PIERPONT MORGAN, New York City.

Collection of Meteorites (purchased from Dr. George F. Kunz), including Sidenites, Siderolites and Aerolites, in all 186 masses, representing the following falls: Bluff, Brenham, Cosby Creek, Decatur County, Kansas, Leland, Long Island, Smithville, York, Cañon Diablo.

## CONCHOLOGY.

### BY GIFT.

FREDERICK A. CONSTABLE, New York City.

320 Species of Japanese Land Shells.

D. M. FERGUESON, Brooklyn, N. Y.

1 Specimen of *Hippopus maculata*, Lam.

G. H. GARDINAR, New York City.

1 Specimen of *Ostrea edulis* with pearl attached.

ESTATE OF DR. GEO. L. HYSLOP, New York City.

A collection of Marine Shells containing about 50 genera and 500 specimens.

WM. M. METCALFE, New York City.

40 Specimens of *Physa ancillaria* Say.

4 " " *Planorbis bicarinata* Say.

DR. ROBERT T. MORRIS, New York City.

40 Specimens of recent and fossil shells from Hudson Bay.

MISS LUCY A. SANDFORD, New York.

2 Specimens of *Argonauta nodosa* Sol.

1 " " *Argonauta argo* Linn.

DR. WM. M. WHEELER, Bronxville, N. Y.

35 Specimens *Meleagrina ala-perdix* Rv., Bahamas.

22 " *Lævicardium serratum* L., Bahamas.

35 " *Neritina virginia* L., Bahamas.

3 " *Orthalicus undatus* Brug., Florida.

4 " *Ovula uniplicata* Sow., Andros Is.

8 " *Cylindrella bahamensis* Pfr., Nassau.

1 " *Oleacina solidula* Pfr., Nassau.

2 " *Stenogyra octona* Chem., Nassau.

BY EXCHANGE.

THEODOR KORMOS, Budapest, Hungary.

26 Species of Land and Fresh-water Shells from Hungary.

WM. M. METCALFE, New York City.

6 Specimens of *Cypræa albuginosa* Mawe.

1 " " " *physis* Broc.

1 " " " *lentiginosa* Gray.

2 " " " *microdon* Gray.

1 " " " *adansonii* Gray.

1 " " " *erythræensis* Beck.

JOHN RITCHIE, JR., Roxbury, Mass.

5 Specimens *Ancylus kirtlandi* Walker.

4 " *Cæcum orcutti* Dall.

2 " *Cepolis maynardi* Pils.

1 " *Ganesella myomphala* var. *fusca* Gude.

4 " *Ganesella turrita* Gude.

1 " *Helix xanthophaes* Pils.

1 " *Helix faunus* Phil., var. *ritchiana* Pils.

1 " *Omphalius eurymphalus* Pfr.

4 " *Pyramidula pauper* Gld. var. *depressa* A. Ad.

2 " *Pyramidula leptata* Smith.

16 " *Pyrgulopsis mississippiensis* Pils.

2 " *Rotula serrula* Bens.

- 4 Specimens *Somotogyrus humerosus* Walker.  
 3 “ “ *rotundatus* Walker.  
 8 “ “ *substriatus* Walker.

MAXWELL SMITH, New York City.

- 4 Specimens *Acmæa depicta* Hds.  
 1 “ *Cerithium ocellatum* Brug.  
 5 “ *Pedipes unisulcata* Copper.  
 3 “ *Pyramidula alternata* Say.  
 5 “ *Rictaxis puncto-costatus* Cpr.  
 13 “ *Scala tincta* Cpr.

WM. WEEKS, Brooklyn, N. Y.

- 4 Specimens *Astralium harmatragus* Mke.  
 1 “ *Buccinum striatissimum* Sby.  
 1 “ *Buccinum undatum* Linn.  
 2 “ *Chione reticulata* Linn.  
 4 “ *Chlorostoma nigricolor* Dkr.  
 22 “ *Littorina palliata* Say.  
 3 “ *Macrocallicta pacifica* Dill.  
 2 “ *Pholas costata* Linn.  
 2 “ *Psammobia ornata* Desh.  
 4 “ *Purpura browni* Dkr.  
 12 “ *Purpura lapillus* Linn.  
 4 “ *Purpura tumulosa* Rv. var.  
 4 “ *Scutus unguis* Linn.  
 2 “ *Sunetta excavata* Hanl.  
 3 “ *Tapes englyptus* Phil.  
 3 “ *Tapes graffi* Dkr.  
 3 “ *Tapes punctata* Chem.  
 4 “ *Tapes philippinarum* Ad. & Rv.  
 2 “ *Tellina virgata* var. *jubas* Hanl.  
 4 “ *Turbo coronatus* Gmel.  
 4 “ *Venus jedoensis* Lisk.

BY PURCHASE.

- 3 Specimens of *Acmæa cruciata* Lam.  
 2 “ “ *Anapella cuneata* Lam.  
 2 “ “ *Astralium aureum* Jones.  
 1 “ “ *Bulimus dufresni* Pfr.  
 3 “ “ *Euchelus baccatus* Mke.  
 2 “ “ *Gari zonalis* Lam.  
 2 “ “ *Fulgur canaliculata* Linn.  
 3 “ “ *Fulgur carica* Gmel.  
 2 “ “ *Helecarion cingulata* Melv. & Pons.  
 1 “ “ *Lampusia eburnea* Rv.

3	Specimens of	<i>Machella ovalina</i>	Gray.
2	“	“	<i>Maetra solidissima</i> Chem.
2	“	“	<i>Macrochisma tasmaniæ</i> Sby.
1	“	“	<i>Meretrix planatella</i> Lam.
3	“	“	<i>Polinices duplicata</i> Say.
2	“	“	<i>Polinices heros</i> Say.
2	“	“	<i>Pyramidula elrodi</i> Pils.
2	“	“	<i>Siphonaria zonata</i> Rv.
1	“	“	<i>Tellina albinella</i> Lam.
1	“	“	<i>Trivia grando</i> Gask.
4	“	“	<i>Trivia sulcata</i> Gask.
2	“	“	<i>Zingis crawfordi</i> Melv. & Pons.

## THROUGH MUSEUM EXPEDITIONS.

## NEWFOUNDLAND EXPEDITION.

324 Specimens, including *Ancylus*, *Helix*, *Littorina*, *Purpura*, *Unio*, *Vivipara* and *Zonites*.

## COLLECTING IN LONG ISLAND SOUND.

368 Specimens, including *Anomia*, *Arca*, *Crepidula*, *Ensis*, *Eupleura*, *Littorina*, *Maetra*, *Modiola*, *Mya*, *Mytilus*, *Nassa*, *Natica*, *Ostrea*, *Pandora*, *Pyrula*, *Urosalpinx* and *Venus*.

## DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

## INVERTEBRATES.

## BY GIFT.

PROF. J. F. ABBOTT, St. Louis, Mo.

A collection of Formicidæ from Japan.

C. G. BAKER, Las Vegas, Cuba.

A collection of Formicidæ from Cuba, California and British Honduras.

DR. S. A. BINION, New York City.

1 Echinoid (*Clypeaster rosaceus*) and 1 Coral specimen from Florida.

DR. W. S. BLATCHLEY, Indianapolis, Ind.

A collection of Formicidæ from Indiana.

DR. THEODORE BUTERMAN.

2 Centipedes from Mindanao, Philippine Islands.

DEPARTMENT OF PARKS, New York City.

2 Pythons.

CARL EICKEMEYER, Yonkers, N. Y.

1 Centipede, 1 Spider and 1 Scorpion.



- EDWARD A. FORD, New York City.  
Various insects from Gaboon, West Africa.
- ESTATE OF DR. GEORGE L. HYSLOP, New York City.  
A collection of shells, insects and corals.
- F. T. LACY, New York City.  
Fresh-water Sponge from Herkimer County, N. Y.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
1 Cat-fish, 1 Erignathus, 1 Lycodontis, 1 Crocodile, 1 Pogonias.
- DR. F. C. PAULMIER, Albany, N. Y.  
A collection of Formicidæ from Costa Rica.  
Various Arthropods from Costa Rica.
- PHILADELPHIA ACADEMY OF SCIENCES.  
A collection of Formicidæ of the United States.
- CAPT. WIRT ROBINSON, Fort Totten, L. I.  
5 Centipedes from Arizona.
- W. H. ROCKWOOD, New York City.  
1 Sponge from the Gulf of St. Lawrence.
- MISS LUCY A. SANDFORD, New York City.  
1 Coral specimen from Bermuda.
- MR. SCHMIDT.  
A Hawk-billed Turtle.
- R. L. STUART.  
A Cameo shell from the West Indies.
- QUINCY TUCKER, New York City.  
2 Beetles and 2 Caterpillars from Bolivia.
- H. L. VIERECK, Philadelphia, Pa.  
A collection of Formicidæ of the United States.
- E. B. WILLIAMSON, Bluffton, Ind.  
10 Crayfish from Indiana.
- N. YATSU, New York City.  
Various Arthropods from Misaki and Yezo, Japan.

BY EXCHANGE.

- GEORGE M. GRAY, Woods Hole, Mass.  
Various Cœlenterates.
- DR. W. KARAWAIEW, Kieff, Russia.  
A collection of Formicidæ from Russia.
- PROF. A. L. TREADWELL, Poughkeepsie, N. Y.  
13 Vials of Annelids from the Hawaiian Islands, British Columbia  
and Woods Hole, Mass.

## BY PURCHASE.

- GEORGE M. GRAY, Woods Hole, Mass.  
Various typical Coelenterates from Woods Hole, Mass.
- J. D. JOHNSON, Belise, British Honduras.  
A collection of Formicidæ from British Honduras.
- ALAN OWSTON, Yokohama, Japan.  
2 Glass Sponges (in alcohol) from Japan.  
A collection of Formicidæ from Japan.
- A. SCHMIEDL, Benkulen, Sumatra.  
A collection of Formicidæ from Sumatra.
- LOUISIANA PURCHASE EXPOSITION, St. Louis, Mo.  
Various invertebrates from the Philippine Islands (part of the Philippine Exhibit).
- FRANK E. TRABAUDT.  
Various insects from southwestern United States.
- ALEXANDER E. WIGHT, Wellesley, Mass.  
16 Lots of Cerion shells from the Bahamas.

## THROUGH MUSEUM EXPEDITIONS.

- DR. J. E. DUERDEN, Grahamstown, South Africa.  
48 Cases of Corals from the Hawaiian Islands.
- L. P. GRATACAP, New York City.  
A collection of Formicidæ from Newfoundland.  
27 Corallines and 14 Sea-urchins from Newfoundland.
- DR. WM. M. WHEELER, Bronxville, N. Y.  
1 Frog and 6 Salamanders from the Ramapo Mts., N. Y.

## REPTILES AND BATRACHIANS.

## BY GIFT.

- WM. T. DAVIS, New Brighton, S. I.  
3 Salamanders from New York State.
- MISS M. C. DICKERSON, Providence, R. I.  
460 Specimens of the batrachians of the United States.
- ROBERT H. HAY, Washington, D. C.  
1 Turtle from Guatemala.
- GNEOMAR VON KROCKOW, Brooklyn, N. Y.  
Various reptiles and amphibians from Saxony, Germany and New York State.
- G. M. LONG & COMPANY, New London, Conn.  
1 Leatherback Turtle, harpooned thirty miles east of Block Island.
- LOUISIANA PURCHASE EXPOSITION, St. Louis, Mo.  
Various reptiles and batrachians from the Philippine Islands.

W. DEW. MILLER, Plainfield, N. J.

2 Salamanders from near Plainfield, N. J.

PROF. T. H. MORGAN, Columbia University, New York City.

2 Vials of batrachian eggs.

NEW YORK ZOÖLOGICAL SOCIETY, Bronx Park, New York City.

1 Ground Rattlesnake (*Sistrurus miliarius*).

15 Snakes from the United States and Egypt.

48 Reptiles and batrachians from various localities.

1 Albino Wood Turtle from Owego, N. Y.

1 Skeleton of "Bushmaster."

WILLIAM NIVEN, City of Mexico.

1 Amphisbænia from Balsas Station, near City of Mexico.

DR. F. C. PAULMIER, Albany, N. Y.

1 Snake from Costa Rica.

FRANK E. TRABAUDT.

Various reptiles from southwestern United States.

QUINCY TUCKER, New York City.

14 Snakes, 1 Snake's head, 1 Salamander and 1 Lizard.

DR. A. WOODWARD, New York City.

4 Box Tortoises from Rockland County, N. Y.

N. YATSU, New York City.

1 Salamander from Misaki, Japan.

THROUGH MUSEUM EXPEDITIONS.

J. H. BATTY, New York City.

1 Snake and 5 Lizard-skins from near Jalisco, Mexico.

2 Lizard- and 3 Snake-skins.

FISHES.

BY GIFT.

J. HARVEY LADEW, New York City.

15 Mounted Fish.

MAMMALS.

BY PURCHASE.

WARD'S NATURAL SCIENCE ESTABLISHMENT, Rochester, N. Y.

1 *Hyrax capensis*.

BIRDS.

BY GIFT.

C. A. MARSH, New York City.

1 Mounted Peacock.

MRS. ALEXANDER L. MARTIN, New York City.

15 Mounted Birds.



# 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 and recreation.

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



# 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 con-

tinuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

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

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

grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

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

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

In presence of  
D. PORTER LORD.

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

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

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

SEAL  
of the American  
Museum of  
Natural History

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

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

[SEAL.]

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

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

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

[SEAL.]

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

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

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

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

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

CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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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, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be

eligible unless his name shall be presented by the Nominating Committee at a regular or special meeting of the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

### ARTICLE III.

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

### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

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

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

ARTICLE V.

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

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

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act.

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

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

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

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

#### ARTICLE VI.

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

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

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

#### ARTICLE VIII.

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.



ARTICLE IX.

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

ARTICLE X.

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

ARTICLE XI.

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

ARTICLE XII.

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

ARTICLE XIII.

The contribution of \$1,000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

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

#### ARTICLE XIV.

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

#### ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

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 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and 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 Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

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

### III.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

### IV.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting

as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

## V.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

## VI.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VII.

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



FOR THE COMPLETION OF THE CONSTRUCTION OF  
THE UNFINISHED PORTIONS OF THE BUILDING.

LEGAL ENACTMENTS OF 1903.

BY THE BOARD OF ALDERMEN.

AN ORDINANCE providing for an issue of Corporate Stock in the sum of one hundred and eighty-eight thousand dollars (\$188,000), to provide means for the completion of the construction of the unfinished portions of the American Museum of Natural History Building in the Borough of Manhattan.

Be it ordained by the Board of Aldermen of the City of New York, as follows:

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution, adopted by the Board of Estimate and Apportionment May 8, 1903, and authorizes the Comptroller to issue Corporate Stock of the City of New York to the amount and for the purposes therein specified:

*Resolved*, That, pursuant to the provisions of Section 47 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding one hundred and eighty-eight thousand dollars (\$188,000) to provide means for the completion of the construction of the unfinished portions of the American Museum of Natural History Building in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by Section 169 of the Greater New York Charter, to an amount not exceeding one hundred and eighty-eight thousand dollars (\$188,000), the proceeds whereof shall be applied to the purposes aforesaid."

Adopted by the Board of Aldermen June 16, 1903, a majority of all the members elected voting in favor thereof.

Approved by the Mayor June 22, 1903. (Signed) P. J. SCULLY, *Clerk*.

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Contracts awarded to December 31, 1905.

For the completion and construction of Corridors and Approaches to the Power Wing, and the Heating, Lighting and Ventilation of same for The American Museum of Natural History.

Contract awarded Richard L. Walsh Company, September 31, 1904, \$52,355.

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APPROPRIATION AND EXPENDITURES MADE THEREFROM  
DECEMBER 31, 1904, TO DECEMBER 31, 1905.

APPROPRIATION:

By Balance January 1, 1905. . . . . \$54,822.97

EXPENDITURES:

To Richard L. Walsh Company. . . . . \$52,355 00

To Charles Volz. . . . . 1,006 91 \$53,451 91

Balance January 1, 1906. . . . . \$1,371 06

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

LEGAL ENACTMENTS OF 1905.

BY THE BOARD OF ALDERMEN.

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

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

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment March 16, 1905, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

*“Resolved,* That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 499 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid.”

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

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

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Contracts awarded to December 31, 1905.

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

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

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APPROPRIATION AND EXPENDITURES MADE THEREFROM  
TO DECEMBER 31, 1905.

APPROPRIATION:

By Direct Appropriation..... \$500,000 00

EXPENDITURES:

Museum orders.....\$5,253 37

Carpenters' Payroll, etc..... 4,167 38 9,420 75

Balance January 1, 1906..... \$490,579 25





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In Memoriam.

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At the Regular Quarterly Meeting of the Board of Trustees of The American Museum of Natural History, held May 8, 1905, the following Minute was adopted:

---

The Trustees of The American Museum of Natural History record with profound sorrow and regret the loss of their esteemed friend and associate,

**ADRIAN ISELIN.**

Mr. Iselin aided in the preliminary efforts to establish the Museum; was one of its original incorporators in 1869, and served as a Trustee during a period of thirty-six years.

Mr. Iselin rendered efficient service for many years as a member of the Executive, Finance, and Auditing Committees, and was ever faithful in the discharge of his duties as a Trustee. In later years his failing health prevented his regular attendance at the meetings of the Board, greatly to the regret of his associate Trustees, but his interest in the growth and advancement of the Museum was unrelaxed, and was evinced by his generous contributions for the enlargement of its collections and for its maintenance. In his death the Museum suffers a great loss.

Mr. Iselin belonged to the class of public spirited citizens, who find in the promotion of the public welfare and in the full discharge of their duties to their fellow-men, ample reward for their conscientious efforts, and who leave after them a loving remembrance of good deeds unpretentiously performed.

At the Adjourned Meeting of the Board of Trustees of The American Museum of Natural History, held February 8, 1906, the following Minute was adopted:

---

The Trustees desire to record their sense of loss in the death of

**JOHN H. WINSER**

for so many years the faithful Secretary and Assistant Treasurer of the Museum.

Mr. Winsor was appointed to his office in 1892, and for fourteen years served the Board of Trustees and the officers of the staff of the Museum with the greatest fidelity. He was invariably accurate in all his accounts and records, absolutely trustworthy in all matters of administration, devoted to the best interests of the Museum, giving its interests his very constant thought and attention, and extremely courteous and kindly in his manner. When acting under the direction of the President or other members of the Board he could always be depended upon to faithfully represent their wishes and instructions. During all the long years of his service he never failed to do his duty to the best of his ability. His genial and kindly presence will be greatly missed at the Museum.



THE  
AMERICAN MUSEUM OF NATURAL HISTORY.



THE  
AMERICAN MUSEUM OF NATURAL  
HISTORY,

CENTRAL PARK, NEW YORK CITY,  
Seventy-seventh Street and Central Park West.

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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.

FOR THE YEAR 1906.



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1907.



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# OFFICERS AND COMMITTEES

## FOR 1907.

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### First Vice-President.

J. PIERPONT MORGAN.

### Second Vice-President.

HENRY FAIRFIELD OSBORN.

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### Asst. Secretary and Asst. Treasurer.

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FOR 1907.

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*DEPARTMENT OF GEOLOGY AND INVERTEBRATE  
PALÆONTOLOGY.*

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

*DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.*

Prof. J. A. ALLEN, Ph.D., Curator.  
FRANK M. CHAPMAN, Associate Curator.

*DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.*

Prof. HENRY FAIRFIELD OSBORN, A.B., Sc.D., LL.D., D.Sc., Curator.  
W. D. MATTHEW, Ph.B., A.B., A.M., Ph.D., Associate Curator.  
O. P. HAY, A.B., A.M., Ph.D., Associate Curator of Chelonia.

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

*DEPARTMENT OF ETHNOLOGY.*

CLARK WISSLER, A.B., A.M., Ph.D., Curator.  
HARLAN I. SMITH, Assistant Curator.  
GEORGE H. PEPPER, Assistant.  
CHARLES W. MEAD, Assistant.

*DEPARTMENT OF ARCHÆOLOGY.*

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*DEPARTMENT OF ENTOMOLOGY.*

WILLIAM BEUTENMÜLLER, Curator.

*DEPARTMENT OF MINERALOGY AND CONCHOLOGY.*

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*DEPARTMENT OF BOOKS AND PUBLICATIONS.*

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

*DEPARTMENT OF INVERTEBRATE ZOÖLOGY.*

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

*DEPARTMENT OF MAPS AND CHARTS.*

A. WOODWARD, Ph.D., Curator.

FORM OF BEQUEST.

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

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## THIRTY-EIGHTH ANNUAL REPORT.

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*To the Trustees and Members of The American Museum of Natural History :*

The President submits herewith a report of the affairs of the Museum for the year 1906.

FINANCES.—As described in an earlier number of the Report, the financial transactions of the Museum have been carried in three separate accounts, designated as the City Maintenance Account, the General Account and the Endowment and Investment Account. The details of the receipts and disbursements, thus classified, will be found in the Treasurer's Report, pages 35 to 41 inclusive. All books and vouchers of these accounts have been duly examined and certified by the Audit Company of New York. A few statements may help in making the details of this report clear.

*Permanent Endowment.*—The interest on the Permanent Endowment, \$47,880, constitutes the principal source of income of the General Account. The urgency for a substantial increase in the Permanent Endowment is evident when it is remembered that appropriations from the City cannot be used for the purchase of specimens, for carrying on field work or for publications.

*City Maintenance Account.*—The Museum has received from the City for maintenance \$170,000, an increase of \$10,000 over the appropriations for maintenance of the last four years. Although the City has thus generously increased its contribution, the sum has been insufficient to meet the increased cost of maintenance entailed by the opening of new exhibition halls and storage rooms and the care of collections recently received. A deficit of \$2,924.04 in the running expenses has been met by the Trustees.

*General Account.*—Upon this account, as stated above, the regular development of the collections of the Museum and the extension of its scientific work are largely dependent. Contributions to this fund are especially desired.

During the year 1906 the total income of this account has been \$74,771.17. The interest on the Permanent Endowment Fund amounted to \$47,880; Life Membership fees totaled \$1,400, and \$14,710 were received from Annual Members.

*Endowment and Investment Account.*—Very frequently friends of the Museum, through their own interest in some particular collection or subject, contribute funds for advancing such work. These sums are carried in the Endowment and Investment Account, which is composed almost wholly of *funds for special purposes*.

The contributions in this account have been very generous, the total receipts amounting to \$67,608.68, a sum more than three times as great as that received last year.

**BUILDING OPERATIONS.**—The contract for the construction of the south section of the West Façade, namely, the first construction on Columbus Avenue, was awarded to Messrs. Guidone & Galardi for \$325,000. Ground was broken for the new wing on May 25, 1906, and the work has progressed satisfactorily. Unless unforeseen obstacles arise, the building should be completed in contract time.

The installation of fire lines and sprinkler systems (made by Gerstle & Company under the appropriation of \$500,000 in 1905) has finally been completed, and the building is now supplied with adequate fire preventing and fire fighting appliances.

By special permission of the City authorities, the Museum has been allowed to pay its carpenters, masons, painters, etc., who have been engaged on new construction, out of the building appropriation. Under this arrangement a large number of new exhibition cases, storage drawers and rooms have been constructed.

In the north basement a large amount of rock has been excavated, thereby bringing the floor of the basement through-

out the building to an even grade. Six large fire-proof storage vaults have been finished and four are nearing completion. A number of similar fire-proof store-rooms have been begun in the attic. Thirty-five thousand square feet of wall space have been painted and 11,300 square feet of concrete laid.

MEMBERSHIP.—The total membership on January 1, 1907, was 2,046, divided into classes as follows: Patrons, 95; Fellows, 41; Life Members, 345; Annual Members, 1,565.

NEW MEMBERS.

The following persons were elected Patrons:

MRS. F. A. CONSTABLE,	ADOLPH LEWISOHN,
MRS. WILLIAM E. DODGE,	J. G. PHELPS STOKES,
SAMUEL V. HOFFMAN,	MRS. FRANK K. STURGIS.

The following persons were elected Fellows:

PROF. CHAS. F. CHANDLER,	CHARLES D. STICKNEY,
	MRS. FRANK K. STURGIS.

The following persons were elected Life Members:

BERNARD G. AMEND,	GEORGE G. HEYE,
FRANCIS R. APPLETON,	THEO. F. JACKSON,
MRS. ALBERT BIERSTADT,	DAVID LYDIG,
J. HULL BROWNING,	CHAS. M. SCHOTT, JR.,
AUGUSTUS L. CLARKSON,	JAMES A. SCRYMSER,
W. R. COE,	GARDINER SHERMAN,
MRS. ERNEST A. FAIRCHILD,	S. NEWTON SMITH,
JOHN CLINTON GRAY,	WILLIAM L. SWAN,
FRANKLIN U. GREGORY,	WILLIAM H. TAYLOR.

DECEASED MEMBERS.

*Fellows.*

PHILIP SCHUYLER.

*Life Members.*

JAMES A. BAILEY,	JACOB MEYER,
HENRY I. BARBEY,	ROLAND G. MITCHELL,
JAMES B. M. GROSVENOR,	E. A. MOEN,
WILLIAM M. KINGSLAND,	EDWARD UHL,
JOHN R. LIVERMORE,	MISS FANNY ELLEN WRIGHT.

*Annual Members.*

BRANDEGEE, DR. W. P.	LIVINGSTON, EDWARD
BRESLIN, JAMES H.	MALCOLM, W. L.
BROTHERHOOD, FRED	MAN, WILLIAM
BURDEN, JAMES A.	MCALAN, JOHN
CALHOUN, HENRY W.	MCDONALD, JOHN E.
CARDOZO, MICHAEL H.	NISBET, WILLIAM F.
COHEN, SAMUEL M.	OSBORN, WILLIAM F.
CROCKER, GEORGE AUGUST	PULSFORD, J. E.
DAVIES, FRANCIS H.	REMICK, ALBERT
DENNY, THOMAS	RHOADES, JOHN HARSEN
DRAKE, JAMES M.	ROOSEVELT, ROBERT B.
FLEITMANN, EWALD	SCHERMERHORN, J. E.
FOWLER, ANDERSON	SHAFFER, HARVEY L.
GARLAND, JAMES A.	SPENCER, SAMUEL
HAYNES, FREDERICK W.	STANTON, JOHN
HODGMAN, GEORGE F.	STILLMAN, T. E.
HOLDEN, E. B.	STONE, EDWIN
HUNTER, MRS. M. L.	TAYLOR, HENRY E.
JACKSON, CHARLES A.	WENTZ, JAMES M.
JONES, WALTER R. T.	WILLCOX, ALBERT

ADMINISTRATION.—Early in the year Mr. G. H. Sherwood was appointed Assistant Secretary and Assistant Treasurer, to fill the vacancy caused by the death of Mr. John H. Winsor, who for fourteen years had served the Museum as Secretary and Assistant Treasurer.

Mr. J. B. Foulke, as Administrative Assistant, has continued to have direct supervision of the engineer's, the carpenter's and the custodian's forces, and has introduced a number of changes which have improved the general admin-

istration of this work and have added materially to the comfort of visitors.

DEPARTMENT OF PUBLIC INSTRUCTION.—The prolonged illness of Professor Bickmore made it inadvisable for him to continue in active charge of this department, of which he had been the efficient head since its foundation, and while he still remained Curator Emeritus, Mr. Sherwood was made Curator. At the same time all the work connected with the public schools and the lecture system was placed under the direction of this department, as well as the general photographic work and the custody of all negatives, photographs, electros and slides belonging to the Museum.

Important relations continue to exist between the Museum and the school system of the City. So far as possible all requests for nature collections have been granted, although this has necessitated the purchase of several hundred new specimens and the construction of new cabinets. The records show that during the year 300 schools have been supplied with collections which were studied by more than 800,000 school children.

Various courses of lectures were arranged and given as stated later in this report. One of these was the "Children's Course," which was attended by 17,187 pupils.

Besides a large number of photographs for illustrating the *Museum Journal*, *Bulletin* and other publications, the photographic work has included the making of many negatives for use in the preparation of exhibits and for future reference.

Writers, artists and illustrators have frequently consulted our photograph files, and many have been supplied with prints for publication.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.—The cataloguing of the collections of American fossils has been completed, showing a total of 10,416 species represented. Similar work is now being done on the European fossils. The collection of building and ornamental stones has been temporarily installed in the Hall of North American Woods.

The Curator has published in the *Bulletin* a paper entitled "Notes on Some Jurassic Fossils from Franz Josef Land," and, jointly with the Associate Curator, a paper "Remarks on and Descriptions of Jurassic Fossils of the Black Hills."

Dr. Hovey has continued to attend to the publication of the *American Museum Journal*, with the exception of the October issue which was edited by Mr. Chapman. He has also assisted in the Members' course of lectures, in the children's course and in the holiday lectures.

During the summer Dr. Hovey was granted leave of absence to enable him to attend the Tenth International Geological Congress held in Mexico, at which he represented the Museum. On the expeditions in connection with the Congress a valuable series of rocks, ores and fossils was secured for the Museum, together with about 450 negatives of characteristic scenery.

DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.—Several noteworthy gifts have been received in this department. Among the first should be mentioned the generous contributions of Mr. George S. Bowdoin for the development of the Museum's collection of Cetacea (whales, dolphins, porpoises, etc.). This is a most important work, as these animals are decreasing in numbers so rapidly that their extinction is not far distant. Mr. Bowdoin's gift has enabled the Museum to purchase a complete skeleton of a Fin-back Whale more than seventy feet in length, and five skeletons of smaller whales, including the very rare species *Mesoplodon layardi*. A life-size model of a Sulphur-bottom Whale, measuring seventy-six feet in length, is nearing completion.

The widespread interest taken in the bird groups, mentioned in earlier reports, and their evident educational value induced the original subscribers to the North American Ornithology Fund and some of their friends to make additional contributions for carrying on this important work. Under this gift, Mr. Chapman went into the field in May and spent three months in collecting material for new groups and in making studies of the bird life of the regions visited. The Prairie Hen Group, Arizona Desert Group and Golden Eagle



Group (all of which have been completed), not to mention other groups in preparation, show some of the results of the expedition. The Water Turkey Group and the rearrangement of the Brown Pelican Group have been finished. In the preparation of these exhibits several new features of installation have been introduced with gratifying results. Twenty-nine birds have been mounted to show the different types of bills and their adaptation to methods of feeding.

The expedition in Mexico came to an end in May through the untimely death of Mr. J. H. Batty.

The list of accessions includes a collection of mammals from Hainan, China, containing thirteen species new to science. Again we are indebted to the New York Zoölogical Society and to the Central Park Menagerie for many courtesies and for the donation of several mammals and birds in the flesh.

The total number of accessions for the year was 638 mammals and 915 birds.

While the Curator has supervised the routine work of the department, he has continued his scientific researches. His duties as editor of the *Bulletin* are exacting, nevertheless he has published two papers and has several others in preparation.

DEPARTMENT OF VERTEBRATE PALEONTOLOGY.—The total collection of fossil vertebrates numbers between 17,000 and 18,000 catalogued specimens, all of which have been identified, labeled and fully recorded, besides about a thousand specimens not yet catalogued.

Among the most striking specimens placed on exhibition may be mentioned the Columbian Mammoth; the *Glyptodon*, a large mammal related to the armadillo, but with a solid shell like a tortoise; the *Tyrannosaurus*, a huge carnivorous dinosaur, almost as large as the *Brontosaurus*, and another extinct reptile, the *Naosaurus*, with a remarkable bony dorsal fin.

The department has been indebted repeatedly to Mr. J. Pierpont Morgan for many generous gifts, but his latest donation, namely, the Warren Mastodon Collection, eclipses all others. The principal specimen in this collection is that of the Warren Mastodon skeleton. It is one of the largest in

size, complete except for the tusks and a few of the phalanges, and is in a remarkably perfect state of preservation. Other valuable specimens in the Warren Collection are a mastodon skull and jaws, a skeleton of *Zeuglodon*, a series of dinosaur footprints and a series of casts of European fossil mammals.

Another noteworthy gift was the skeleton of the race-horse "Sysonby," presented to the Museum by Mr. James R. Keene.

During the summer three parties were sent into the field under the direction of Professor Osborn. One, immediately in charge of Mr. Barnum Brown, continued exploration in the Hell Creek region of Montana and yielded several important fossil reptiles, including a skeleton and several fragments of the "Duck-bill" Dinosaur, *Claosaurus*. A second expedition, in charge of Mr. Walter Granger, worked in the Bridger country of southwestern Wyoming, where a valuable collection (197 specimens in all) of the remains of rare mammals from the Eocene formations was obtained. The third party was in charge of Mr. Albert Thomson, and explored, with good results, the fossil beds in the Pine Ridge Reservation of South Dakota. Among the finds were skulls or parts of skeletons of fossil carnivores, rodents, peccaries, camels, rhinoceroses and horses, and a complete skeleton and about fifty skulls of primitive ruminants, nearly all of which are new to science.

Several important scientific papers, mentioned in another part of this report, have been published by the Curator and the members of his staff, and others are nearly ready for publication.

Under the skilful direction of Dr. Dean excellent progress has been made in the arrangement, exhibition and development of our collections of Fossil Fishes, which, at the present time, number 7,890 specimens.

Through the generous gift of Mr. Cleveland H. Dodge it has been possible to purchase several valuable specimens and to take up important field work.

Dr. Hussakof and Mr. Charles Mead visited the fossil beds along Scaumenac Bay, Quebec, and secured about 200 specimens of fishes.

DEPARTMENT OF ETHNOLOGY.—The rearrangement of the Indian collections in the West Hall was undertaken by Dr. Wissler, the Acting Curator, early in the year. The general scheme of installation has been to show in a simple and effective way the various phases of culture of the Indians of the Plains. Transportation, warfare, art, religion, amusements, industries, are some of the topics treated. The installation has received most favorable comment, not alone from the layman, but from the visiting anthropologist.

A similar method has been followed with gratifying results in the reinstallation of the Eskimo collection in the North Wing. The attractiveness of this hall will be greatly increased when the mural paintings, provided through the generosity of Mr. Arthur Curtiss James and executed by Mr. F. W. Stokes, have been completed.

The care of the study collections which cannot be placed on exhibition is no small task. With the storage system recently devised it has been possible to catalogue and arrange this material so that it is readily accessible to students.

In spite of the heavy draft that the routine of the department has made on the Acting Curator's time, he has continued his researches and has directed the scientific work of the members of his staff. He has gathered data for papers on "The Origin and Distribution of the Blackfoot Indians," "The Secret Societies of the Dakota" and "The Protective Designs of the Dakota."

Mr. Harlan I. Smith, besides assisting in the regular work of the department, has completed his memoir on the "Archæology of Puget Sound," and has in preparation an exhibit representing the culture of the Indians of the North Pacific coast.

Mr. Mead and Mr. Pepper have made progress in their respective departments.

Dr. A. E. Jenks, who was formerly Chief of the Bureau for the Ethnological Survey of the Philippines and Superintendent of the Philippine Exhibit at the St. Louis Exposition,

was engaged to identify and catalogue our extensive ethnological collections from the Philippines, and the work has been most satisfactorily done.

Among the field workers, Dr. J. R. Walker has made considerable progress with the physical measurements among the Dakota at Pine Ridge. Mr. D. C. Duvall, among the Blackfoot, has completed his field notes upon games and amusements. Mr. R. H. Lowie has visited the Shoshone Indians on the Lemhi Indian Reservation in Idaho for the purpose of studying their ethnology. Dr. C. C. Vinton is collecting material in Korea, and Mr. M. R. Harrington has been commissioned to make a collection from the Iroquois in Canada.

The Acting Curator has also assumed the editorship of the anthropological papers published by the Museum.

JESUP NORTH PACIFIC EXPEDITION PUBLICATIONS.—In June Professor Franz Boas retired as Curator of the Department of Anthropology, and has since acted as the editor of the Jesup North Pacific Expedition publications on a fund established by Mr. Jesup. During the year the following parts have been completed :

Vol. II, Part V. "The Lillooet Indians." By James Teit.

Vol. X, Part I. "Kwakiutl Texts—Second Series." By Franz Boas and George Hunt.

DEPARTMENT OF ENTOMOLOGY.—A considerable portion of the Curator's time has been occupied in identifying, labeling and cataloguing the collections received. In connection with this work Mr. Beutenmüller has visited the United States National Museum at Washington, the American Entomological Society at Philadelphia, and the New York State Museum at Albany for purposes of study. In all, 9,300 specimens have been mounted.

Among the important gifts should be mentioned a collection of 2,000 butterflies, from Mr. William Schaus, and a collection of termites and nests from Panama, presented by Mrs. A. Beaumont. These were collected by the late James Beaumont.

The generosity of Mr. Samuel V. Hoffman enabled the Curator to continue his entomological survey of the Black Mountains of North Carolina. Although the unusual rain and fog handicapped the party, about 8,000 specimens were collected, including a large number of very interesting species, many of which are new to science.

The Curator has made considerable progress on a monograph on the "Genus *Catocala*," and has four shorter papers in preparation.

The following experts have aided in identifying specimens or in preparing papers on our collections, and we gratefully acknowledge their assistance :

- Mr. W. D. Kearfott.....Montclair, N. J.
- Mr. James A. G. Rehn.....Philadelphia, Pa.
- Prof. J. B. Smith.....New Brunswick, N. J.
- Prof. T. D. A. Cockerell.....Boulder, Colo.
- Prof. Herbert Osborn.....Columbus, Ohio
- Mr. E. A. Back.....Amherst, Mass.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.—The event of the year was the receipt of the famous Willamette meteorite, presented by Mrs. William E. Dodge. This mass, composed almost entirely of pure iron and weighing more than fifteen tons, is the largest meteorite which has been found in the United States, and is one of the three largest known. The great hollows and deep pits which characterize its surface combine with its enormous size to make it the most remarkable and interesting meteorite that has been discovered. The specimen has been installed in the foyer where it is a constant source of attraction to the many visitors to the Museum. With this notable acquisition the Museum possesses one of the finest collections of meteorites known to science.

By purchase the Museum has acquired the Selma meteorite, the largest *entire* stone meteorite known.

The development of the mineral collection has been continued by the judicious selection of rare and showy specimens, which has been made possible by the income from the Bruce

Fund. An unusually fine boulder, bearing opal, has been received through the generosity of Mr. George S. Bowdoin.

Progress has been made in cataloguing the minerals and in revising the shell collections.

During the summer the Curator visited Iceland and secured minerals, insects, mollusks and other material for the Museum.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.—The opening of the East Mammal Hall and the North Corridor has made it possible to remove the reptile and fish collections from the Synoptic Hall and to give them space for growth and consistent development. Mr. Miner has made progress in an attractive installation of the fishes, and the reptile collection has been improved by the addition of fine groups of the Painted Turtle and Florida Rattlesnake. A group of Flying Lizards is now being prepared.

Dr. B. E. Dahlgren, who early in the year was appointed an Assistant Curator, has spent most of his time working on a series of models representing the structure of the malarial mosquito and the stages of the malarial plasmodia in the human blood corpuscle. Dr. L. W. Williams has made a fine large model of the Common Squid.

The attractiveness and educational value of the Jesup Collection of North American Woods, at present in the custody of this department, have been increased by placing in the cases with some of the specimens artificial sprays showing the foliage, flower and fruit of the tree in natural size and color. The entire Magnolia Family has been reinstalled with such good results that a similar treatment will be applied to the remainder of the Wood Collection.

In all, twenty-five papers, based on the material in the department, have been published. Of these, sixteen were by the Curator, one by Mr. Miner, four by Professor T. D. A. Cockerell, and one each by Messrs. James A. G. Rehn, J. F. McClendon, Nathan Banks and Charles T. Brues.

Early in the year Dr. N. L. Britton, Director of the New York Botanical Garden, organized an expedition to Culebra

and Porto Rico, and very kindly invited Dr. Wheeler to accompany him for the purpose of studying the terrestrial invertebrate fauna of the islands. Although only four weeks were devoted to the work, Dr. Wheeler secured an extensive collection of the ants of Culebra and Porto Rico, regions from which no ants have been described heretofore. The collection contains some 5,000 specimens, representing about 60 species, subspecies and varieties.

Dr. Alexander G. Ruthven, accompanied by Mr. Gneomar von Krockow, proceeded to southern New Mexico and Arizona to study the reptiles of these regions. Valuable field notes and about 1,000 specimens were secured, besides a small collection of invertebrates, consisting principally of ants, mollusks and parasitic worms. The results of this expedition are now being worked up in several papers, the mollusks by Mr. Bryant Walker, the vertebrates by Dr. Ruthven.

Upon invitation of Professor T. D. A. Cockerell of the University of Colorado, who had organized an expedition for this purpose, Dr. Wheeler spent June and July in Florissant, Colo., exploring the Miocene fossil beds of the region. The summer's work was successful beyond expectation. Upwards of 2,000 specimens of fossil plants and insects were secured. With few exceptions the Florissant insects hitherto described, although all belonging to extinct species, are nevertheless very similar to those found in subtropical America at the present time. This is an extremely interesting and significant fact, since it emphasizes the enormous age and singular morphological stability and persistence of the insect type.

DEPARTMENT OF BOOKS AND PUBLICATIONS.—It is a recognized fact that a thoroughly equipped library is a necessary adjunct to an institution devoted to scientific research. With this need in view the Curator has endeavored to secure not only recent publications required in a science library, but earlier works which would complete the broken series we already possess. While progress has been made in filling unfortunate gaps, much remains to be done, and additional funds are urgently needed for this purpose.

The department has received during the year 2,652 volumes and 1,148 pamphlets, making the working library at the close of 1906 number about 34,666 books and 17,732 pamphlets. Among the important accessions of the year should be mentioned two superbly illustrated volumes on "Jade," by the late Heber R. Bishop, presented to the Museum by the Executors of his Estate, and the books, pamphlets and separates that have been received from Dr. Allen, Dr. Wheeler and Dr. Bumpus, whose private libraries had already been given to the Museum. All gifts and exchanges have been duly acknowledged.

The reference catalogue has been increased by the intercalation of 15,967 cards received from the Concilium Bibliographicum, and a like number has been distributed to the series on deposit. A great many visiting scientists have made use of the library.

The Curator is the official custodian of all works of art, and in his care have been placed the busts of the pioneers of American science, which were given to the Museum by your President. These busts occupy niches in the foyer of the Museum, and were unveiled with impressive ceremonies during "Convocation Week." A full report of these ceremonies is now being printed and will soon be issued. The scientists thus represented are:

Benjamin Franklin,	Jean Louis Rodolphe Agassiz,
Alexander von Humboldt,	James Dwight Dana,
John James Audubon,	Spencer Fullerton Baird,
John Torrey,	Joseph Leidy,
Joseph Henry,	Edward Drinker Cope.

Following is a list of the scientific publications of the Museum issued in 1906, as received by the Curator for distribution and exchange:

DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

*Bulletin*, Volume XXII.

R. P. Whitfield. "Notes on Some Jurassic Fossils from Franz Josef Land, brought by a Member of the Ziegler Exploring Expedition." (Pages 131-134, plates xviii, xix.)



R. P. Whitfield and E. O. Hovey. "Remarks on and Descriptions of Jurassic Fossils of the Black Hills." (Pages 389-402, plates xlii-lxii.)

## DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.

*Bulletin*, Volume XXII.

J. A. Allen. "Mammals from the States of Sinaloa and Jalisco, Mexico, collected by J. H. Batty during 1904 and 1905." (Pages 191-262, plates xx-xxxiii, with 3 text figures.)

J. A. Allen. "Mammals from the Island of Hainan, China." (Pages 463-490, plate lxix.)

W. de W. Miller. "List of Birds Collected in Northwestern Durango, Mexico, by J. H. Batty, during 1903." (Pages 161-184.)

## DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

*Memoir*, Volume IX.

Barnum Brown. "The Osteology of *Champsosaurus* Cope." (Pages 1-26, plates i-v.)

Louis Hussakof. "Studies on the Arthrodira." (Pages 103-154, plates xii and xiii, with 25 text figures.)

J. H. McGregor. "The Phytosauria, with Especial Reference to *Mystriosuchus* and *Rhytidodon*." (Pages 27-101, plates vi-xi, with 26 text figures.)

*Bulletin*, Volume XXII.

Barnum Brown. "New Notes on the Osteology of Triceratops." (Pages 297-300, plate xl, with 2 text figures.)

E. C. Case. "On the Skull of *Edaphosaurus pogonias* Cope." (Pages 19-26, plate vii.)

J. W. Gidley. "A New Genus of Horse from the Mascall Beds, with Notes on a Small Collection of Equine Teeth in the University of California." (Pages 385-388, with 1 text figure.)

O. P. Hay. "Descriptions of Two New Genera (*Echmatemys* and *Xenochelys*) and Two New Species (*Xenochelys formosa* and *Terrapene putnami*) of Fossil Turtles." (Pages 27-32, with 7 text figures.)

O. P. Hay. "On Two Interesting Genera of Eocene Turtles, *Chisternon* Leidy and *Anosteira* Leidy." (Pages 155-160, with 3 text figures.)

W. D. Matthew. "Hypothetical Outlines of the Continents in Tertiary Times." (Pages 353-384, with 7 text figures.)

W. D. Matthew and J. W. Gidley. "New or Little Known Mammals from the Miocene of South Dakota." (Pages 135-154, with 20 text figures.)

H. F. Osborn. "Milk Dentition of the Hyracoid Saghatherium from the Upper Eocene of Egypt." (Pages 263-266, with 3 text figures.)

H. F. Osborn. "*Tyrannosaurus*, Upper Cretaceous Carnivorous Dinosaur. (Second Communication.)" (Pages 281-296, plate xxxix.)

J. W. Sinclair. "Volcanic Ash in the Bridger Beds of Wyoming." (Pages 273-280, plates xxxv-xxxviii.)

## DEPARTMENT OF ETHNOLOGY.

*Memoirs of the Jesup North Pacific Expedition.*

Franz Boas and George Hunt. "Kwakiutl Texts—Second Series." Volume X, Part I. (Pages 1-269.)

James Teit. "The Lillooet Indians." Volume II, Part V. (Pages 193-300, plates viii and ix, with text figures 61-100.)

## DEPARTMENT OF INVERTEBRATE ZOOLOGY.

*Bulletin*, Volume XXII.

Nathan Banks. "Arachnida of the Bahamas." (Pages 185-190, with 4 text figures.)

C. T. Brues. "Fossil Parasitic and Phytophagous Hymenoptera from Florissant, Colorado." (Pages 491-498.)

T. D. A. Cockerell. "The Bees of Florissant, Colorado." (Pages 419-456.)

T. D. A. Cockerell. "A Fossil Cicada from Florissant, Colorado." (Pages 457 and 458, with 1 text figure.)

T. D. A. Cockerell. "The Fossil Mollusca of Florissant, Colorado." (Pages 459-462.)

T. D. A. Cockerell. "Fossil Saw-Flies from Florissant, Colorado." (Pages 499-501.)

J. F. McClendon. "The Myzostomes of the 'Albatross' Expedition to Japan." (Pages 119-130, plates xv-xvii.)

J. A. G. Rehn. "The Orthoptera of the Bahamas." (Pages 107-118, with 2 text figures.)

W. M. Wheeler. "The Habits of the Tent-Building Ant (*Cremastogaster lineolata* Say). (Pages 1-18, plates i-vi.)

W. M. Wheeler. "On the Founding of Colonies by Queen Ants, with Special Reference to the Parasitic and Slave-Making Species." (Pages 33-106, plates viii-xiv.)

W. M. Wheeler. "A New Wingless Fly (*Puliciphora borinquensis*) from Porto Rico." (Pages 267-272, plate xxxiv.)

W. M. Wheeler. "The Ants of Japan." (Pages 301-328, plate xli, with 2 text figures.)

W. M. Wheeler. "The Ants of the Grand Cañon." (Pages 329-346.)

W. M. Wheeler. "The Ants of the Bermudas." (Pages 347-352, with 1 text figure.)

W. M. Wheeler. "An Ethological Study of Certain Maladjustments in the Relations of Ants to Plants." (Pages 403-418, plates lxiii-lxviii, with 1 text figure.)

*The American Museum Journal*, Volume VI, published in four numbers, with the following Guide Leaflets :

F. M. Chapman. "The Birds of the Vicinity of New York City." (Leaflet No. 22, April and July, pages 1-96, with 44 text figures.)

B. E. Dahlgren. "The Development of a Mollusk." (Leaflet No. 21, January, pages 1-29, with 30 text figures.)

R. W. Miner. "A Guide to the Sponge Alcove." (Leaflet No. 23, October, pages 1-36, with 32 text figures.)

DEPARTMENT OF PHYSIOLOGY.—As usual, this department has taken charge of all animals "in the flesh" which have been received at the Museum during the year. These number 267 specimens. The "digestion method" of preparing osteological material, which was used with such good success in 1905, was continued, with the result that 103 complete skeletons, 34 skulls and 3 shoulder-girdles have been cleaned and turned over to the various departments.

Progress has been made in the preparation of anatomical parts and in the construction of models and mechanical devices which will assist in demonstrating the function of certain organs of the body. Dr. Muenchehofe has prepared successfully a working model of the heart to show the action of the aortic and auriculoventricular valves.

During the summer Dr. Muenchehofe spent several weeks visiting the museums of London, Berlin, Dresden, Leipsic, Prague, Innsbrück and Naples, from which many ideas have been obtained. We gratefully acknowledge the many courtesies extended to the Museum by the Director of the New York Zoölogical Society, the Director of the New York Aquarium, and the Director of the Central Park Menagerie.

DEPARTMENT OF MAPS AND CHARTS.—The maps of the Western Hemisphere have been classified, and 2,344 have been arranged on the filing frames.

The summary of the acquisitions for the year is as follows:

By Donation.....	Atlases	46.....	Maps	169
" Exchange .....	"	99.....	"	31
" Purchase.....	"	0.....	"	679
		145		879

ATTENDANCE.—The total number of visitors for the year was 476,133. While this does not quite equal the record fig-

ures of 1905, it does exceed the attendance of any other year. This decrease may be explained in part by the omission of the lectures for school children during the fall. As a result the attendance of school children was only 24,000, as against 46,000 of the preceding year. About 45,000 people were present at the public lectures.

Repeatedly our attention has been called to the intelligent character of those visiting the Museum. The average visitor is seeking not merely amusement, but is ready and anxious to gain as much information as possible.

ASSOCIATED SOCIETIES AND ORGANIZATIONS.—Early in the spring a reception was tendered to the Governor-General of Canada and his wife, Earl and Countess Grey, which brought to the Museum a notable gathering. After the formal reception, which was held in the Japanese Reception Room, the guests visited the exhibition halls.

On account of its accessibility and equipment, the Museum is regarded as a desirable meeting place for various scientific societies of the City and vicinity. The New York Academy of Sciences and Affiliated Societies hold their meetings here, and our lecture rooms are in great demand for use by visiting classes from public and private schools.

In May, representative museum men from all over the United States and Canada met at the Museum for the purpose of organizing the American Association of Museums, the object of which is "to promote the welfare of museums, to increase and diffuse knowledge of all matters relating to them, and to encourage helpful relations among museums and those interested in them."

The New York Academy arranged for an exhibition during "Convocation Week" of December, to show the recent progress that had been made in science. The Museum set aside the Siberian Hall and part of the west Indian Hall for the use of the Academy during the exhibition.

The Geological Society of America and the American Palæontological Society were also entertained at the Museum during "Convocation Week."

The following is a list of the societies and classes which have held meetings at the Museum during the year:

- American Association for the Advancement of Science.
- American Ethnological Society.
- American Psychological Association, New York Section.
- American Society of Vertebrate Palæontologists.
- Audubon Society of the State of New York.
- Classes from Columbia University and various private schools.
- Geological Society of America.
- Germanistic Society of America.
- Linnæan Society of New York.
- National Association of Audubon Societies for the Protection of Wild Birds and Animals.
- Natural Science Committee of the Associate Alumnae of the Normal College, New York City.
- New York Academy of Sciences.
- New York Entomological Society.
- New York Mineralogical Club.
- Torrey Botanical Club.

TRANSPORTATION. — The friendly consideration which various transportation companies have shown the Museum is most gratifying, and their assistance in granting our field parties free transportation and in giving our freight free haul has contributed in no small measure to the success of the expeditions. We are pleased to acknowledge our indebtedness to the transportation companies.

The list is as follows:

- Atchison, Topeka & Santa Fe Railway.
- Chicago, Burlington & Quincy Railway.
- Chicago, Milwaukee & St. Paul Railway.
- Chicago & Northwestern Railway.
- Cunard Steamship Company.
- Denver & Rio Grande Railway.
- Erie Railroad.
- Great Northern Railway.
- Missouri Pacific Railway.
- Northern Pacific Railway.
- Oregon Short Line Railroad.
- Southern Pacific Company.
- Union Pacific Railroad.
- Wabash Railroad.

LECTURES.—Several lecture courses have been delivered during the year. These include (1) a spring and a fall course to Members, (2) a public course given on holidays, (3) a spring course to pupils of the public schools, (4) a course in conjunction with the New York Academy of Sciences, (5) a course in conjunction with the Linnæan Society of New York, and (6) a course under the auspices of the Board of Education of the City of New York, in coöperation with the Museum.

Through the courtesy of the Members of the Peary Arctic Club, arrangements were made with Commander Robert E. Peary to give at the Museum, on December 8, the first public account of his remarkable exploring expedition and of the voyage of the "Roosevelt." The interest of the public in the work of this intrepid explorer was evidenced by the unusual number who came to hear him. Fully 30,000 people sought admission.

## LECTURES TO MEMBERS.

Members of the scientific staff of the Museum delivered the following lectures :

February	15.—The Five American Nations: Conquerors of the Snow, Forest, Mist, Desert and Plain.....	Harlan I. Smith
March	1.—Impressions of English Bird Life.....	Frank M. Chapman
"	8.—Travels in Patagonia.....	Barnum Brown
"	15.—Meteors and Comets—Their Mutual Relations,	Prof. Robert W. Prentiss
"	22.—The Planets—Their Telescopic Appearance and Physical Condition.....	Prof. Robert W. Prentiss
November	8.—A Sketch of California Bird Life.....	Frank M. Chapman
"	15.—A Zoölogist's Journey to the Society Islands,	Henry E. Crampton
"	22.—Iceland—Its Scenery and Inhabitants.....	Louis P. Gratacap
December	6.—Fragments of Other Worlds.....	S. Alfred Mitchell
"	13.—A Journey in Old Mexico.....	Edmund Otis Hovey

## PUBLIC LECTURES ON HOLIDAYS.

New Year's Day, January 1.—The Philippines—Manila,	Prof. Albert S. Bickmore
Washington's Birthday, February 22.—The Philippines—Luzon,	George H. Sherwood

Thanksgiving Day, November 29.—Volcanoes . . . . . Edmund Otis Hovey  
Christmas Day, December 25.—Iceland—Its Scenery and Inhabitants,  
Louis P. Gratacap

LECTURES FOR CHILDREN.

A spring course of lectures was given for pupils of the public schools and for the children of Members on Monday, Wednesday and Friday afternoons at four o'clock, as follows:

- January 8.—The Development of New York City. . . . . Louis P. Gratacap
- “ 10.—The Work of Water . . . . . Edmund Otis Hovey
- “ 12.—Travels Through Western Europe and British Isles,  
Roy W. Miner
- “ 15.—The Physical Divisions of the United States,  
Edmund Otis Hovey
- “ 17.—Our South American Neighbors. . . . . George H. Sherwood
- “ 19.—In the Nile Country. . . . . Roy W. Miner
- March 12 and April 2.—Japan and Her Neighbors. . . . . George H. Sherwood
- “ 14 and April 4.—Travels in the West Indies. . . . . Frank M. Chapman
- “ 16 and April 20.—Animals of North America—Their Habits and  
Uses. . . . . Roy W. Miner
- “ 19 and April 23.—Life in California and the Great Southwest,  
George H. Pepper
- “ 21 and April 25.—The Region of the Great Lakes,  
Edmund Otis Hovey
- “ 23 and April 27.—American Trees and Their Products,  
George H. Sherwood
- “ 26 and April 30.—“Hiawatha's” People. . . . . Harlan I. Smith
- “ 28 and May 2.—Historic Scenes in the Colonies,  
Roy W. Miner
- “ 30 and May 4.—Mediterranean Countries—Ancient and Modern,  
Roy W. Miner

NEW YORK ACADEMY OF SCIENCES.

*In Coöperation with the Museum.*

Members of the Museum were invited to attend the following lectures delivered under the auspices of the New York Academy of Sciences:

- February 19.—The Total Eclipse of the Sun of August, 1905,  
S. Alfred Mitchell
- October 29.\*—The Collection of Extinct Elephants in the American Museum,  
Henry Fairfield Osborn
- December 5.—The Yellowstone National Park. . . . . Charles Truax

\* In the absence of Professor Osborn, this lecture was delivered by Mr. Frederic A. Lucas.

## LINNÆAN SOCIETY OF NEW YORK.

*In Coöperation with the Museum.*

Members of the Museum were invited to attend the following lectures delivered under the auspices of the Linnæan Society of New York:

February	21.	—The Tortugas Marine Laboratory of the Carnegie Institution; Its Aims and Problems.....	Alfred G. Mayer
March	7.	—New Zealand Bird Life.....	Edgar F. Stead
"	14.	—A Naturalist's Camping Trip to Hudson Bay, Robert T. Morris, M.D.	
"	21.	—Bird-Hunting with a Camera.....	Clinton G. Abbott

## BOARD OF EDUCATION LECTURES.

*In Coöperation with the Museum.*

These lectures were given on Tuesday and Saturday evenings. The Tuesday evening lectures were on geographical subjects; the Saturday evening lectures consisted of several courses more technical in character.

*Tuesday Evenings.*

January	9.	—Jerusalem.....	Lewis Gaston Leary
"	16.	—To and Fro in Babylon.....	Mrs. Cassandra A. Haynes
"	23.	—Bedouin Arabs and Things Seen Among Them, Mrs. Cassandra A. Haynes	
"	30.	—In Reed Encampments.....	Mrs. Cassandra A. Haynes
February	6.	—Egypt: Life, Religion, Art and Symbolism..	Walter Scott Perry
"	13.	—Egypt: Life, Religion, Art and Symbolism..	Walter Scott Perry
"	20.	—Egypt: Life, Religion, Art and Symbolism..	Walter Scott Perry
"	27.	—Egypt: Life, Religion, Art and Symbolism..	Walter Scott Perry
March	6.	—A Tour of the World's Markets and Market Places, Oscar Phelps Austin	
"	13.	—The Yellowstone National Park.....	Barry Bulkeley
"	20.	—First Ascents and Explorations in the Canadian Alps, Herschel C. Parker	
"	27.	—The Land of Lewis and Clark.....	Azel Hull Fish
April	3.	—The Lake Superior Copper Country.....	Claude F. Walker
"	10.	—The South To-day.....	James Arthur MacKnight
"	17.	—The City of Washington.....	William T. Dorward
"	24.	—Historic Landmarks of New York City.....	Albert Ulmann, R. P. Bolton and Edward Hagaman Hall
October	2.	—A Walking Tour in Switzerland.....	Louis Auguste Loiseaux
"	9.	—The Austrian Tyrol.....	William A. Murrill
"	16.	—The Mighty Danube.....	Lewis Gaston Leary
"	23.	—Munich and the Bavarian Alps.....	Henry E. Northrop
"	30.	—Northern Italy.....	Louis Auguste Loiseaux



- November 6.—The Mediterranean.....Edwin A. Havers  
“ 13.—Naples—Its Environs and Vesuvius....Arthur Stanley Riggs  
“ 20.—Vistas in Sicily .....Arthur Stanley Riggs  
“ 27.—Greece.....Frederick E. Partington  
December 4.—Constantinople and the Bosphorus....Frederick E. Partington  
“ 11.—Egypt and the Nile .....Arthur Stanley Riggs

*Saturday Evenings.*

A course of three lectures on “Natural Science,” by Professor John B. Smith.

- January 6.—Insects and Their Transformations.  
“ 13.—Insects in Their Relations to Plant Life.  
“ 20.—Insects in Their Relations to Man and to Other Animals.

A course of five lectures on “Astronomy,” by Professor Robert W. Prentiss.

- January 27.—The Sun : Its Phenomena.  
February 3.—The Sun : Spectrum Analysis, Light and Heat.  
“ 10.—The Moon : Its Appearance, Motions, Scenery and Physical Condition.  
“ 17.—The Planets : Their Telescopic Appearance and Physical Condition.  
“ 24.—Comets and Meteors : Their Mutual Relations.

A course of nine lectures on “Physics,” by Professor Ernest R. von Nardroff and Dr. Charles H. Tyndall.

- March 3.—The Nature of Light and Color.  
“ 10.—Spectrum Analysis and the Stars.  
“ 17.—Color Photography.  
“ 24.—The Optics of Painting.  
“ 31.—The Colors of Polarized Light.  
April 7.—Colors from the Interference of Light.  
“ 14.—The Relation of Light to Electricity.  
“ 21.—Optical Illusions.  
“ 28.—Wireless Telegraphy.

A course of five lectures on “Chemistry,” by Professor Morris Loeb.

- October 6.—Introduction to the Study of the Carbohydrates.  
“ 13.—Classification of Carbohydrates. Their Occurrence in Nature.  
(a) Single Sugars.  
“ 20.—(b) Double Sugars.  
“ 27.—Complex Carbohydrates.—I.  
November 3.—Complex Carbohydrates.—II.

A course of six lectures on "Physical Geography," by Professor William Libbey.

November 10.—Erosion.  
 " 17.—Rivers.  
 " 24.—Geysers.  
 December 1.—Volcanoes.  
 " 8.—Earthquakes.  
 " 15.—Glaciers.

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A great institution of this kind attains its highest measure of success not alone through what it may do for the public, but perhaps quite as much through what the public may do for *it*. The Museum, from its inception, has had friends—indeed, many friends—and never in its history have these assisted more unselfishly than during the year just drawn to a close. While the City authorities may appropriate funds for the construction of the building and for the care and custody of the collections, public funds cannot be used for the purchase of specimens. Although we have an endowment of over \$1,000,000, the income from this amount is far too small to permit the Museum to develop as its Trustees desire. Generous gifts to the endowment, therefore, are urgently requested.

The efforts of the Museum to instruct, to improve, and to elevate are now supplemented by the regular contributions of over two thousand "Members" and "Patrons." It is this assistance and the endorsement implied thereby that encourage those entrusted with the management of the Museum to increased endeavor, and assure larger opportunities and wider fields for development in the future.

Very respectfully yours,

MORRIS K. JESUP, *President.*

## FINANCIAL STATEMENT.

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### *PERMANENT ENDOWMENT.\**

General Fund.....	\$972,000 00
John B. Trevor Fund.....	15,000 00
Josiah M. Fiske Fund.....	10,000 00
Matilda W. Bruce Fund.....	11,000 00
Solomon Loeb Fund.....	5,000 00
	<hr/>
	\$1,013,000 00
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\*The interest on the Permanent Endowment is the chief source of income of the General Account (see page 38).

*CITY MAINTENANCE ACCOUNT.*

RECEIPTS.

Capital Account, January 1, 1906.....	\$15,000 00
Department of Parks.....	\$170,000 00
Transfer from General Account to meet deficit.....	2,924 04
<b>Total receipts for the maintenance of all departments.....</b>	<b>172,924 04</b>
Interest on Balances.....	163 73

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\$188,087 77

Examined and Approved. { ANSON W. HARD, } *Auditing*  
                                  { GEORGE G. HAVEN, } *Committee.*  
                                  { GUSTAV E. KISSEL. }

*CITY MAINTENANCE ACCOUNT.\**

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$7,018 75	
Mammalogy and Ornithology.....	8,082 51	
Mineralogy and Conchology.....	3,205 02	
Vertebrate Palæontology.....	13,708 02	
Anthropology .....	11,337 74	
Entomology.....	2,108 83	
Invertebrate Zoölogy.....	5,908 13	
Physiology.....	2,621 69	
Library.....	9,447 92	
Public Instruction.....	4,502 04	
Preparation and Exhibition.....	13,313 57	
General Supplies and Expenses.....	7,631 61	
Heating and Lighting.....	19,693 71	
Repairs and Installation.....	13,723 06	
Administration .....	50,621 39	
<b>Total disbursements for the maintenance of all departments.....</b>		<b>\$172,924 04</b>
Interest on Balances transferred to General Account.....		163 73
Cash on hand December 31, 1906.....		15,000 00
		<u>\$188,087 77</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, December 31, 1906.

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\*The annual appropriation of the City can be used only for the *maintenance* of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions.



GENERAL ACCOUNT.\*

DISBURSEMENTS.

Geology and Invertebrate Palæontology.....	\$2,697 87
Mammalogy and Ornithology.....	8,155 53
Mineralogy and Conchology.....	282 78
Vertebrate Palæontology.....	10,303 67
Anthropology.....	6,064 51
Entomology.....	682 84
Invertebrate Zoölogy.....	2,733 91
Library.....	5,712 62
Physiology.....	283 02
Public Instruction.....	4,435 74
Preparation and Exhibition.....	1,975 72
Publications.....	14,696 93
General Supplies and Expenses.....	8,507 32
<b>Total disbursements for the development of all departments.....</b>	<b>\$66,532 46</b>
Interest on Loans and Overdrafts.....	140 89
Sale of Specimens and Reimbursements.....	177 88
City Maintenance Account: Transferred to this account to balance deficit...	2,924 04
Morris K. Jesup: Transferred to Endowment and Investment Ac- count.....	5,000 00
Loans.....	4,000 00
Cash on hand December 31, 1906.....	9,995 90
	<hr/>
	<b>\$88,771 17</b>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]  
NEW YORK, December 31, 1906.

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

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT AND INVESTMENT ACCOUNT.

RECEIPTS.

MAMMALOLOGY AND ORNITHOLOGY:

North American Ornithology Fund:

Balance from 1905.....	\$1,569 45	
Mrs. Frank K. Sturgis Fund.....	100 22	
John L. Cadwalader.....	500 00	
F. Aug. Schermerhorn.....	500 00	
Mrs. John B. Trevor.....	100 00	
Mrs. Robert Winthrop.....	250 00	
Mrs. Harriet L. Schuyler.....	250 00	
Mrs. Morris K. Jesup.....	150 00	
H. B. Hollins.....	250 00	
Henry Clay Pierce.....	500 00	
Henry W. Poor.....	500 00	\$4,669 67
George S. Bowdoin Fund for Cetacea.....	5,000 00	
Mrs. Frank K. Sturgis Fund.....	1,000 00	\$10,669 67

MINERALOGY:

Matilda W. Bruce Fund:

Balance from 1905.....	\$231 54	
Interest.....	660 00	\$891 54

George S. Bowdoin for purchase of Opal.....	500 00	1,391 54
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VERTEBRATE PALÆONTOLOGY:

J. P. Morgan Gift.....	\$30,000 00	
Morris K. Jesup Fund.....	1,265 16	
Fossil Fish Exploring Fund; Cleveland H. Dodge.....	1,000 00	
Horse Exploration Fund:		
George J. Gould.....	\$500 00	
Percy R. Pyne.....	500 00	
Arthur Curtiss James.....	500 00	
Francis R. Appleton.....	100 00	1,600 00
Egyptian Expedition; Morris K. Jesup.....	3,500 00	
Synoby Fund; James R. Keene.....	2,000 00	
E. H. Harriman Fund, balance.....	74 44	39,439 60

ANTHROPOLOGY:

Hyde Exploration Fund; B. T. B. Hyde.....	\$1,200 00	
African Collections, balance.....	148 59	
Wm. Demuth Collection, balance.....	82 17	
Ethnological Research Fund, balance.....	47 55	
East Asiatic Fund.....	5,197 39	
Berlin North American Fund, balance.....	123 59	
Morris K. Jesup Fund, balance.....	344 43	
Board of Missions Fund, balance.....	840 00	
Mural Decoration Fund; Arthur Curtiss James.....	1,000 00	8,983 54

ENTOMOLOGY:

Hoffman Entomological Fund; Samuel V. Hoffman.....	500 00	
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INVERTEBRATE ZOÖLOGY:

Tahiti Expedition.....	1,500 00	
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FORESTRY:

Mrs. C. P. Huntington Fund.....	124 33	
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PUBLICATIONS:

Jesup North Pacific Expedition Publications.....	5,000 00	
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**Total receipts for the development of specific departments** \$67,608 68

PERMANENT ENDOWMENT:

Balance from 1905.....	1,000 00	
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INTEREST ON CREDIT BALANCES:

Earnings to December 31, 1906.....	280 98	
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\$68,889 66

Examined and Approved. { ANSON W. HARD, } Auditing  
 { GEORGE G. HAVEN, } Committee.  
 { GUSTAV E. KISSEL. }



**ENDOWMENT AND INVESTMENT ACCOUNT.\***

DISBURSEMENTS.

MAMMALOGY AND ORNITHOLOGY :		
North American Ornithology Fund.....	\$4,631 51	
George S. Bowdoin Fund for Cetacea.....	3,995 17	
Mrs. Frank K. Sturgis Fund.....	668 47	
	<hr/>	\$9,205 15
MINERALOGY:		
Matilda W. Bruce Fund.....	\$757 94	
George S. Bowdoin for purchase of Opal.....	500 00	
	<hr/>	1,257 94
VERTEBRATE PALEONTOLOGY :		
J. P. Morgan Gift.....	\$30,000 00	
Morris K. Jesup Fund.....	1,265 16	
Fossil Fish Exploring Fund.....	1,000 00	
Horse Exploration Fund.....	1,600 00	
Egyptian Expedition.....	2,595 52	
Sysonby Fund.....	69 16	
E. H. Harriman Fund.....	74 44	
	<hr/>	36,604 23
ANTHROPOLOGY :		
Hyde Exploration Fund.....	\$1,200 00	
African Collections.....	140 33	
Wm. Demuth Collection.....	25 00	
East Asiatic Fund.....	1,295 55	
Morris K. Jesup Fund.....	9 32	
Mural Decoration Fund.....	1,000 00	
	<hr/>	3,673 20
ENTOMOLOGY:		
Hoffman Entomological Fund.....		350 00
INVERTEBRATE ZOOLOGY:		
Tahiti Expedition.....		1,500 00
FORESTRY:		
Mrs. C. P. Huntington Fund.....		124 33
PUBLICATIONS:		
Jesup North Pacific Expedition Publications.....		3,753 06
<b>Total disbursements for the development of specific departments.....</b>	<b>\$56,467 96</b>	
Interest on Credit Balances, transferred to General Account.....		250 98
Cash on hand December 31, 1906.....		12,140 72
		<hr/>
		\$68,889 66

[E. & O. E.]

CHARLES LANIER, *Treasurer.*

NEW YORK, *December 31, 1906.*

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

# LIST OF ACCESSIONS, 1906.

## DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

### BY GIFT.

- ALASON T. BRIGGS, New York City.  
1 Specimen of *Encrinurus lilliiformis* Lamarck from Europe.
- FRANK SPRINGER, Las Vegas, N. Mex.  
3 Specimens of *Talarocrinus palei* Miller & Gurley, showing arms.  
12 " " " " " " " " dome.  
12 " " " " " " " " calyces only.
- STANDARD PLUNGER ELEVATOR COMPANY, New York City.  
12 Drill-cores.
- PROF. J. J. STEVENSON, New York City.  
1 Block with *Philipsia stevensoni* from near Uniontown, Pa.
- MRS. M. B. STREETER, New York City.  
2 Specimens of *Productus costatus* Sowerby.  
1 Specimen *Teredo* boring from Seattle, Wash.
- PROF. R. P. WHITFIELD, New York City.  
12 Specimens of Post-pliocene fossils from Point Loma, Cal.  
15 " " " " " " " " Tenth Street, San Diego,  
Cal.  
250 Specimens of Post-pliocene fossils from Twenty-sixth Street, San  
Diego, Cal.
- REV. T. W. WILLIAMS, Shamokin, Pa.  
Stem of leaf of Tree Fern from Burnside Mine, near Shamokin, Pa.

### BY EXCHANGE.

- 1 Specimen of *Eugaster concinnus* Ringueberg.  
2 Specimens of *Protaster stellifer* Ringueberg.  
1 Block of *Phialacrinus magnificus* Miller & Gurley.

### BY PURCHASE.

- 6 Specimens of *Toucasia lonsdalei* Sowerby.  
2 " " *Requienia ammonica* Goldfuss.  
2 " " " *carinata* Matheron.  
6 " " *Monopleura varians* "  
2 " " " *depressa* "  
6 " " " *urgoniensis* "  
2 " " *Matheronia gryphoides* "

## THROUGH MUSEUM EXPEDITIONS.

- 350 Laramie fossils from Montana. Collected by Barnum Brown.  
 1 Specimen of *Unio endlichii* White from Sweetwater, Wyo.  
 Collected by Walter Granger.
- 100 Cretaceous fossils from near Cárdenas, Mex., and 200 specimens  
 of rocks and ores from Mexico. Collected by E. O. Hovey.  
 1 Specimen of *Aviculopecten princeps* Conrad sp. from Delaware,  
 Ohio; 1 specimen of *Gomphoceras eximium* Hall from Sandusky,  
 Ohio; 1 specimen of *Orthoceras* sp. indet. from Sandusky, Ohio.  
 Collected by L. Hussakof.
- 20 Specimens of Devonian plants from Scaumenac Bay, opposite Dal-  
 housie, New Brunswick. Collected by C. S. Mead and L.  
 Hussakof.

DEPARTMENT OF MAMMALOGY AND  
ORNITHOLOGY.

## MAMMALS.

## BY GIFT.

Mrs. ALFRED BIERSTADT, New York City.

- 1 Buffalo head (mounted).

HERBERT BROWN, Yuma, Ariz.

- 1 Spermophile.

HERMON C. BUMPUS, New Rochelle, N. Y.

- 2 White-footed Mice.

N. G. BUXTON, Johnstown, Ohio.

- 1 Jumping Rat.

JAMES CHAPIN, Staten Island, N. Y.

- 1 Brown Rat.

Miss CARRIE I. CLOSE, Brooklyn, N. Y.

- 1 Fox Terrier.

WILLIAM COOK, New York City.

- 2 Dried Rats.

DEPARTMENT OF PUBLIC PARKS, New York City.

- 18 Monkeys, 1 Ringtail Monkey, 1 Ashy-black Monkey, 3 Mar-  
 mosets, 1 Lion, 1 Coyote, 3 Foxes, 1 Black Bear, 1 Brown Bear,  
 1 Raccoon, 1 Fisher, 1 Black-footed Ferret, 1 Goat, 5 Aoudads,  
 1 Zebu, 1 Yak, 1 Black-buck, 1 Peccary, 3 Mexican Deer, 4  
 Axis Deer, 1 Virginia Deer, 2 Fallow Deer, 1 Agouti, 1 Fox  
 Squirrel, 1 Prairie Dog, 1 Porcupine.—Total, 57 specimens re-  
 ceived in the flesh.

A. W. DIMOCK, Marco, Fla.

- 1 Manatee.

DR. J. DWIGHT, New York City.

1 Flying Squirrel.

W. K. GREGORY, New York City.

1 Scalp and skull of Yaguarondi Cat.

O. R. MEDSGER, Arlington, N. J.

1 Georgia Bat.

NEW YORK ZOÖLOGICAL SOCIETY, New York City.

1 Korean Monkey, 1 Tchile Monkey, 1 Black Ape, 1 Pig-tail Monkey,  
1 Mandrill, 1 Marmoset, 3 Lemurs, 2 Leopards, 2 Clouded Leopards,  
2 Ocelots, 1 Blue Fox, 1 Red Fox, 1 Azara's Dog, 1 Japanese Bear,  
1 Polar Bear, 1 Sloth Bear, 1 Black Bear, 1 Civet Cat, 2 Wolverines,  
1 Genet, 1 Fennec, 1 Mongoose, 1 Binturong, 1 Viverrine, 1 Rocky Mountain Goat,  
1 Markhor, 1 Aoudad, 2 Mountain Sheep, 1 Nylghau, 2 Buffaloes, 1 Maral,  
1 American Antelope, 1 Whitetail Deer, 1 Chinese Deer, 1 Sambar Deer, 1 Muntjac,  
1 Caribou, 1 Moose, 1 Grant's Zebra, 4 Hedgehogs, 1 Beaver, 1 Capybara,  
1 Agouti, 1 Viscacha, 1 Sloth, 1 Wallaby, 1 Echidna.—Total, 58 specimens received in the flesh.

JAMES RICALTON, Maplewood, N. J.

1 Young Indian Elephant.

CAPT. WIRT ROBINSON, Fort Totten, N. Y.

1 Jumping Rat.

F. A. SCHNEIDER, Brooklyn, N. Y.

2 Brown Bats, 1 White-footed Mouse.

E. T. SETON, Cos Cob, Conn.

1 Red Squirrel.

MRS. JOHN WHEELWRIGHT.

1 Whale-tooth.

ZIEGLER POLAR EXPEDITION.

1 Polar Bear.

BY EXCHANGE.

87 Specimens from Colorado, 20 specimens from Utah, 10 Old World Bats.

BY PURCHASE.

2 Zebra skulls, 1 Otter skin, Texas Steer horns, 4 Whale skeletons, 79 Mammals from the Island of Hainan, China.

THROUGH MUSEUM EXPEDITIONS.

1 Puma, 2 Ocelots, 3 Foxes, 1 Weasel, 3 Skunks, 1 Bassariscus, 4 Coatimondis, 4 Opossums, 7 Deer, 1 Peccary, 1 Rabbit, 5 Squirrels, 15 Peromyscus, 1 Reithrodontomys, 2 Black Rats, 1 Brown Rat, 63 Bats.—Total, 115 specimens from Mexico. Collected by J. H. Batty.

- 4 Spermophiles (in alcohol) from Tucson, Ariz. Collected by Mr. F. M. Chapman and Mr. J. D. Figgins.  
1 Porpoise from Pelham Bay Park, N. Y. Collected by W. Dolan.  
1 Deer, 1 Mountain Sheep, 1 Antelope, 11 Prairie Dogs, 1 Deer skull and horns, from Wyoming. Collected by James L. Clark.

BIRDS.

BY GIFT.

- G. J. ATKINSON, New York City.  
1 Pied-billed Grebe.
- HERBERT BROWN, Yuma, Ariz.  
5 Skins from Arizona.
- NATHAN C. BROWN, Portland, Me.  
72 Beautifully prepared skins from South Carolina.
- JAMES CHAPIN, New York City.  
1 Osprey, 7 small birds, sternums of 2 birds.
- J. G. CREIGHTON, New York City.  
1 White Leghorn Rooster.
- REV. G. G. CROZIER, Assam, India.  
137 Skins from Assam.
- HOMER DAVENPORT, Morris Plains, N. J.  
1 Blue-winged Teal, 1 Gray Jungle Fowl, 2 Quail, 1 Manchurian Pheasant, 1 Mongolian Pheasant, 1 Crested Pheasant, 1 Silver Pheasant.
- DEPARTMENT OF PUBLIC PARKS, New York City.  
1 Cassowary, 1 Tern, 12 White Swans, 2 Black Swans, 1 Canada Goose, 1 Duck, 3 Pheasants, 3 Eagles, 3 Hawks, 3 Owls, 13 Parrots, 3 Cockatoos, 1 Crow, 3 Cardinals, 4 Java Sparrows, 2 small birds.—Total, 56 specimens received in the flesh from the Central Park Menagerie.
- DR. JONATHAN DWIGHT, JR., New York City.  
7 Small birds from New York.
- CHAPMAN GRANT, New York City.  
128 Skins, mostly from California.
- R. C. MURPHY, New York City.  
4 Skins of small birds from New York.
- MIRON NEALE.  
31 Skins from Michigan.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.  
2 Rheas, 1 Emu, 3 Cassowaries, 1 Ostrich, 1 Swan, 1 Duck, 1 American Egret, 1 Brush Turkey, 1 Vulturine Guinea Fowl, 2 Crowned Pigeons, 1 California Condor.

F. A. SCHNEIDER, New York City.

1 American Goldfinch.

COL. NICOLI P. SOKOLNIKOFF.

2 Skins of adult Ross's Gull from Siberia.

EDGAR F. STEAD, Christchurch, New Zealand.

1 Penguin skin from New Zealand.

C. C. WARREN, White Plains, N. Y.

Humming-bird on burdock.

BY EXCHANGE.

11 Specimens from Sonora and Isle of Pines.

150 Specimens, mostly from South America.

3 Specimens from Florida.

THROUGH MUSEUM EXPEDITIONS.

LOCAL COLLECTING.

32 Small birds from New Jersey.

WESTERN EXPEDITION (North American Bird Group Fund).

131 Specimens from Arizona, Nebraska, California and Oregon.

MEXICAN EXPEDITION.

328 Birds from western Mexico.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

BY GIFT.

PROF. BASHFORD DEAN, New York City.

Mounted skeleton of *Cryptobranchus*, the "giant salamander" of Japan.

Several specimens of fossil fishes from various formations and localities.

MAJOR F. McLAUGHLIN, Santa Cruz, Cal.

Tooth of mammoth from the Klondike, Yukon Territory.

J. PIERPONT MORGAN, New York City.

The Warren Collection of fossils, etc., including :

1. The "Warren Mastodon," the largest and finest mastodon skeleton ever found.
2. Skull and jaws of the "Shawangunk Mastodon," and various incomplete skeletons, jaws and teeth of mastodons and mammoths.
3. Incomplete skeleton of the primitive Cetacean, *Zeuglodon*, from the Eocene of Alabama, estimated to be 70 feet in length.
4. Series of footprints of dinosaurs on Triassic flagstones from near Turner's Falls, Connecticut River.

5. Series of casts of the historic collection of fossils in the Darmstadt Museum, and other valuable casts.
6. Series of skeletons, skulls, and other preparations of modern mammals, reptiles, etc., and various miscellanea.

BY EXCHANGE.

BRITISH MUSEUM, London, England (through Dr. A. Smith Woodward).

Casts of eight specimens of fossil vertebrates in the British Museum.

UNIVERSITY OF BASEL, Switzerland (through Prof. H. G. Stehlin).

Collection of named specimens of teeth of Eocene mammals from Egerkingen, Switzerland.

BY PURCHASE.

Part of skeleton of mastodon from near Buffalo, Kan. Collected by C. H. Sternberg.

Complete shell and part of skeleton of a Miocene tortoise from Kansas. Collected by C. H. Sternberg.

Two skeletons of a large new fossil rhinoceros and a fossil crocodile skeleton from the Big Badlands of South Dakota. Collected by H. F. Wells.

Specimens of Devonian fishes, *Cladoselache* and *Dinichthys*, from Dr. W. Kepler.

24 Specimens of fossil fishes purchased in Germany through Professor Dean.

10 Plaster casts of fossil fishes from F. Krantz, Bonn, Germany.

7 Specimens of fossil fishes from Ward's Natural Science Establishment, Rochester, N. Y.

5 Specimens of fossil fishes from B. Stütz, Bonn, Germany.

THROUGH MUSEUM EXPEDITIONS.

DEVONIAN OF CANADA.

200 Specimens of fossil fishes from Baie Chaleur, P. Q.

LARAMIE CRETACEOUS OF MONTANA.

Specimens of dinosaurs, including a skeleton and parts of several others, of the "Duck-bill" Dinosaur. Also a number of teeth, etc., of rare Cretaceous mammals.

LOWER MIOCENE OF SOUTH DAKOTA.

256 Specimens of fossil mammals, mostly new to science, from the Rosebud formation in southwestern South Dakota.

MIDDLE EOCENE OF WYOMING.

180 Specimens of fossil mammals and 10 specimens of fossil reptiles from the Bridger and Washakie formations of southwestern Wyoming.

## DEPARTMENT OF ETHNOLOGY.

BY GIFT.

- CHAMPE S. ANDREWS, New York City.  
2 Photographs of Dookhboors of Canada.
- ANONYMOUS GIFT.  
1 African tray.
- ANONYMOUS GIFT.  
1 Pair of Russian shoes.
- GEORGE S. BOWDOIN, New York City.  
1 Robe, 1 sago-squeezer, 2 quivers with arrows, from Africa.
- IRVING BROKAW, New York City.  
1 Skull, 2 flat-irons, 1 bunch of keys and spoons, relics of St. Pierre eruption.
- WILLIAM DEMUTH, New York City.  
A collection of pipes and smoking utensils, including 6 African pipes, 20 pipes and a number of cigars from Philippine Islands, and 1 clay pipe bowl from Africa.
- T. E. DONNE, Wellington, New Zealand.  
1 Skull from Chatham Island.
- RICHARD DOUGLAS, New York City.  
1 Upright queue from Barotse Land, Africa.
- ROBERT DUMONT, New York City.  
29 Specimens from islands of the Pacific Ocean.
- LIEUT. G. T. EMMONS, Princeton, N. J.  
1 Coiled basket, 1 birch-bark basket, 1 bag, from Alaska.
- J. B. FOULKE, Babylon, L. I.  
1 Large gold-embroidered cloth from India.
- DR. W. FREUDENTHAL, New York City.  
1 Pair of moccasins from Bonita, Ariz.
- WILBUR F. GOODRICH, Somerville, Mass.  
11 Chipped points from Midlothian, Va.
- THOS. M. GUERIN, New York City.  
1 Skirt from the Hawaiian Islands.
- ALFRED HAMMERSTEIN, Canada.  
1 Copy of newspaper printed in Cree language.
- GERALD E. HART, New York City.  
1 Basket from Chilkat Indians of British Columbia.
- GEORGE G. HEYE, New York City.  
1 Grinding stone from Mexico; a similar stone from Mississippi;  
1 wooden spear, 1 bow and three arrows from Africa; 1 skull from battlefield of Waterloo.



- HENRY W. HOWELL, New York City.  
1 Implement and boat model from the South Seas.
- HENRY E. JONES, New York City.  
1 Doll from the Ojibway Indians.
- GEORGE B. KING, Lawrence, Mass.  
5 Casts of stone implements from the Merrimac Valley.
- MRS. CHARLES B. KNOX, New York City.  
1 Carved wooden dish from Alaska.
- E. KUZMIER, Long Island.  
2 Chipped quartzite points from Huntington, L. I.
- FRANK G. LAHEY, Akron, Ohio.  
1 Grooved stone ax, 2 arrow points.
- DR. A. B. LEWIS, New York City.  
1 Fragment of flaked stone from Trenton, N. J.
- G. ARCHIBALD McTAVISH, New York City.  
3 Stone implements, 2 fish-hooks, 2 stone adzes, from islands of the Pacific Ocean.
- GEORGE W. MAYNARD, New York City.  
8 Pairs of shoes from Belgium.
- PAUL C. MILLER, New York City.  
3 Stone implements from Wyoming.
- J. P. MORGAN, New York City.  
8 Stone implements and 1 piece of pottery, from North America.
- B. T. NASH, New York City.  
1 Pitted stone from Ohio.
- GEORGE N. PINDAR, New York City.  
3 Bracelets from the Philippine Islands.
- CAPT. WIRT ROBINSON, Fort Totten, N. Y.  
Fragments of pottery and broken bones from Tennessee.
- SHELDON RODMAN, New York City.  
1 Hat from India.
- T. S. RUMNEY, Liberty, N. Y.  
1 War gong from Philippine Islands.
- M. F. SAVAGE, New York City.  
2 Javanese cigars.
- ERNEST SCHERNIKOW, New York City.  
2 Hammer-stones from southeastern Nevada.
- MRS. J. SMITH, New York City.  
1 Terra cotta garden seat, probably from China.

- J. G. PHELPS STOKES, New York City.  
 Collection of silver work from India.  
 Collection of ethnological specimens from various localities in North America.
- W. A. WELCH, New York City.  
 Pot of arrow poison from South America.
- Mrs. JOHN WHEELWRIGHT, New York City.  
 1 Terra cotta whistle from Central America.  
 1 Decorated gourd from South America.  
 25 Pieces of pottery “ “ “  
 1 Ladle, 1 sheet bearing paintings of costumes, from Asia.
- GEN. CHARLES A. WHITTIER, New York City.  
 Models representing torture, from Philippine Islands.
- LOUIS G. ZUMAYA, New York City.  
 1 Belt from Mexico.

THROUGH MUSEUM EXPEDITIONS.

- Specimens from the natives of Mexico. Collected by Mr. J. H. Batty.
- Specimens from the Central Eskimo. Collected by Capt. George Comer.
- Specimens from the California Indians. Collected by Miss Constance Goddard DuBois.
- Specimens from the Ojibway Indians. Collected by Dr. William Jones.
- Specimens from the Shoshone Indians. Collected by Mr. R. H. Lowie.
- Specimens from the State of Washington. Collected by Mr. Edward Sapir.
- Specimens from Korea. Collected by Dr. C. C. Vinton.
- Specimens from Pine Ridge, S. D. Collected by Dr. J. R. Walker.
- Specimens from Blackfoot Indians. Collected by Dr. Clark Wissler.

BY EXCHANGE.

- ACADEMY OF SCIENCES, St. Petersburg, Russia.  
 Ethnological specimens from Siberia.
- ACADEMY OF NATURAL SCIENCES, Philadelphia, Pa.  
 Cast of bone club from Vancouver Island.
- MUSEUM OF THE COLLEGE OF CHARLESTON.  
 7 Casts of fossilized human bones from the Island of Guadeloupe.
- THOMAS B. CLARKE, New York City.  
 7 Casts of pottery from China.
- REV. S. COULING, New York City.  
 9 Casts of archæological specimens from China.

- LIEUT. G. T. EMMONS, Princeton, N. J.  
Ethnological specimens from the Pacific coast of North America.
- PROF. JACOB, Erlangen, Germany.  
3 Shadow-play figures from Turkey.
- PROF. OKAZAKI, New York City.  
Casts of bronze vessels from China.
- ROYAL SCOTTISH MUSEUM, Edinburgh.  
1 Cast of stone ax from China.
- DECOST SMITH, New York City.  
1 Cast of bust of an Iowa Indian.

BY PURCHASE.

- 3 Ivory horns and 6 shields from Africa.  
11 Archæological specimens from Costa Rica.  
87 Specimens from the Iroquois Indians, Cattaraugus Co., N. Y.  
1 Carved club from New Zealand.  
Blackfoot medicine woman's outfit from Browning, Mont.  
1 Model of sailing vessel from Colombo, Ceylon.  
3 Specimens from the Maidu Indians of California.  
99 Ethnological specimens from the Samoan Islands.

DEPARTMENT OF ENTOMOLOGY.

BY GIFT.

- DR. WILLIAM H. ASHMEAD, Washington, D. C.  
A number of North American insect-galls.
- MRS. A. BEAUMONT, Vineland, N. J.  
A collection of termites and nests from Panama, collected by the late James Beaumont.
- C. F. BAKER, Santiago de las Vegas, Cuba.  
*Exochomus cubensis* from Cuba.  
*Bradynotes excelsa* from Mount Tyndall, Cal.  
*Bradynotes compacta* from Ormsby County, Nev.
- BUREAU OF ENTOMOLOGY (through Dr. A. D. Hopkins), Washington, D. C.  
A number of rose-galls from Arizona and Colorado.
- DR. D. M. CASTLE, Philadelphia, Pa.  
50 Beetles from Tybee Island, Ga., and Enterprise, Fla.  
1 *Cychrus ridingsii* from Pennsylvania.
- PROF. T. D. A. COCKERELL, Boulder, Colo.  
A collection of galls from Colorado.  
A collection of bees from Colorado.
- DR. J. DWIGHT, JR., New York City.  
A collection of insects from Douglas, Wyo.

- DR. HARRISON G. DYAR, Washington, D. C.  
A number of Lepidoptera from Kaslo, B. C.
- DR. JAMES FLETCHER, Ottawa, Canada.  
1 *Sphinx canadensis*.  
4 *Barathra curialis*.
- E. A. FORD, New York City.  
A number of butterflies from Gaboon, Congo, Africa.
- C. P. GILLETTE, Fort Collins, Colo.  
Specimen of gall of *Andricus spongiola*.
- L. P. GRATACAP, New York City.  
A collection of insects from Iceland.
- CARL HARTMAN, Austin, Texas.  
Galls of *Pachypsylla venusta*.
- GEORGE KELLER, Newark, N. J.  
2 *Apatela manitoba*.
- GNEOMAR VON KROCKOW, Brooklyn, N. Y.  
1 *Amblychila schwarzi* from Salt Lakes, N. M.  
Specimens of galls from Tucson, Ariz.
- J. F. McCLENDON, Philadelphia, Pa.  
A collection of insects from Mexico.
- T. H. MCHATTON, Macon, Ga.  
A collection of insects from Fannin County, Ga.
- A. L. MELANDER, Pullman, Wash.  
25 Types and cotypes of North American Diptera.
- W. DEWITT MILLER, Plainfield, N. J.  
Specimens of galls on violet.
- T. COTTIM NELLIST, Astoria, N. Y.  
Specimens of silks in different stages of manufacture.
- CAPT. WIRT ROBINSON, Fort Totten, N. Y.  
A collection of beetles from the United States.  
Beetles from British Guiana, South America.
- A. I. ROOT COMPANY, New York City.  
Swarm of stingless bees and nest from the upper Orinoco, Venezuela.
- WILLIAM SCHAUS, London, England.  
A collection of Lepidoptera from Cuba.
- DR. HENRY SKINNER, Philadelphia, Pa.  
12 Specimens of beetles from Carr Canyon, Huachuca Mountains,  
Ariz.  
6 *Cicindela roguensis* from Rogue River, Ore.
- PROF. JOHN B. SMITH, New Brunswick, N. J.  
59 Specimens of North American Noctuidæ.
- A. L. TREADWELL, Poughkeepsie, N. Y.  
1 *Lepidota bimaculata* from Borneo.

- DR. WILLIAM M. WHEELER, Bronxville, N. Y.  
A collection of Chalcididæ.  
Specimens of galls from Colorado.  
A number of insects from Colorado.  
A collection of fossil insects from Florissant, Colo.
- ALEX. E. WIGHT, Wellesley, Mass.  
Specimens of insects from Jamaica, B. W. I.

BY PURCHASE.

- A collection of North and South American Orthoptera.  
A collection of insects from Santiago, Cuba.  
A collection of insects from Adana, Asia Minor.  
25 Specimens of North American *Cicindela*.  
400 Specimens of North American Diptera.  
Swarm of Italian honey-bees.

THROUGH MUSEUM EXPEDITIONS.

HOFFMAN ENTOMOLOGICAL EXPEDITION.

- About 8,000 insects from the Black Mountains, N. C. Collected by  
William Beutenmüller.

DEPARTMENT OF MINERALOGY AND CONCHOLOGY.

MINERALOGY.

BY GIFT.

AMERICAN MINERAL AND ALLOY COMPANY.

- 1 Specimen of Carnotite, Colorado.

F. BOHM, New York City.

- Various Copper and Lead ores from Helena, Mont.

H. BOOTH, Poughkeepsie, N. Y.

- 1 Specimen of Fulgurite, Benzie, Frankfort Co., Mich.

MR. GEORGE S. BOWDOIN, New York City.

- Specimen of Opal, Australia.

THE MATILDA W. BRUCE FUND.

- 65 Specimens of minerals, including Anapaite, Astrolite, Beryl, Bismuth, Bowenite, Bröggerite, Cassiterite, Chalmersite, Cinabar, Columbite, Corundophyllite (Amesite), Dolomite (twinned), Dumortierite, Gypsum, Hellandite, Hematite, Herderite, Heulandite, Indicolite (Tourmaline), Knoxvilleite, Lapis Lazuli, Lead, Malakon (Zircon), Manganite, Minium, Monazite, Natrolite, Peridot, Prehnite, Pseudoapatite, Quartz (unusual), Riebeckite, Silver, Smaltite, Stephanite, Stilbite, Sulphur, Teallite, Titanite and Wollastonite (after Pyroxene).

- L. V. CASE, Tarrytown, N. Y.  
2 Specimens of Cyrtolite, Bedford, N. Y.
- PROF. CHARLES H. CHANDLER, New York City.  
About one-third of the Russel Gulch, Colorado, Meteorite, weight,  
11 pounds, 3 ounces; also cast of the whole mass.
- DEPARTMENT OF VERTEBRATE PALÆONTOLOGY, from the  
Warren Collection.  
Specimens of various minerals.
- DR. JONATHAN DWIGHT, New York City.  
1 Specimen of Mica (Muscovite), Larchmont, N. Y.
- MRS. VICTOR M. HACKLEY, Philadelphia, Pa.  
1 Specimen of Stalactite, Luray Cave, W. Va.
- DR. DAVID L. HAIGHT, New York City.  
1 Specimen of Black Pearl.
- MESSRS. BERNARDO HIRIART and PEDRO LEILETCHE, California.  
1 Specimen of Beryl (white and curiously marked), Pala, San Diego  
Co., Cal.
- MISS MARY W. LANGDON, New York City.  
Specimens of Cinnabar, Copper, Proustite, Silver, etc.
- M. MCLEOD, Ontario, Canada.  
1 Specimen of Annabergite, Cobalt, Ontario, Canada.  
1 " " Bismuth, " " "  
1 " " Erythrite, " " "  
1 " " Mica (Muscovite), Cobalt, Ontario, Canada.  
1 " " Niccolite, " " "  
2 " " Smaltite, " " "
- J. D. MALLONEE, Alstead, N. H.  
2 Specimens of Soapstone (Steatite) water-pipes.
- J. PIERPONT MORGAN, New York City.  
1 Specimen of Tourmaline (Rubellite) crystal, Pala, San Diego Co.,  
Cal.  
1 Specimen of Tourmaline (grouped Rubellite), Pala, San Diego  
Co., Cal.  
1 Specimen of Turquoise Matrix, Santa Rosa, Mexico.  
1 " " " from Persia.
- PREMIER (Transvaal) DIAMOND MINING CO., LIMITED.  
Model of the "Cullinan" diamond, South Africa.
- RAUL REYES, VENEZUELA.  
1 Specimen of Malachite, Estado Laca, Venezuela.
- T. SANDERS, JR., Newark, N. J.  
1 Specimen of Pyroxene, Warren Co., N. Y.

MRS. JOHN WHEELWRIGHT (deceased), through Miss MARY LANGDON WHEELWRIGHT, New York City.

Large Mexican Onyx nodule.

BY EXCHANGE.

Specimens of Aurichalcite, Chalcophanite and Smithsonite.

1 Specimen of Riebeckite.

CONCHOLOGY.

BY GIFT.

H. BOEKELMAN, Cotorro, Cuba.

12 Specimens of *Modiola sulcata* Lam.

20 " " *Polygyra paludosa* Pfr.

E. W. HISTED, New York City.

1 Specimen of *Argonauta argo* Linn.

SLOMAN ROUS, New York City.

4 Specimens of *Helix aperta* Born. (with epiphragm), France.

1 " " *Helix (Pleurodonta) dentiens* Fer., Cuba.

PROF. MARSHALL H. SAVILLE, New York City.

1 Specimen of *Astrarium* sp.?

1 " " *Cassis inflata* Shaw.

2 " " *Conus interruptus* Brod.

2 " " *Cypræa arabicula* Lam.

1 " " " *cervinetta* Kien.

2 " " " *pustulosa* Lam.

1 " " *Hemicardium* sp.?

1 " " *Strombus granulatus* Gray.

1 " " *Sycotypus decussatus* Wood.

1 " " *Trochus* sp.?

FREDERICK SCHNEIDER, New York City.

Several Living Land Shells (*Helix*).

PROF. R. P. WHITFIELD, New York City.

1 Specimen of *Nassa*.

1 " " *Trochus*.

6 " " *Purpura patula* Linn.

BY PURCHASE.

1 Specimen of *Amussium japonica* Gmel.

1 " " *Arca granosa* Linn.

1 " " *Avicula* sp.?

1 " " *Caliostoma unicum* D'Orb.

1 " " *Cassis coronulata* Sowb.

1	specimen	of	<i>Chlorostoma rustica</i> Gmel.
1	"	"	<i>Clanculus clanguloides</i> Gray.
1	"	"	<i>Crepidula walshi</i> Hermanson.
1	"	"	<i>Dolium perdix</i> Linn.
1	"	"	" <i>zonatum</i> Green.
1	"	"	<i>Drillia flavidula</i> Lam.
1	"	"	<i>Euthria ferrea</i> Rve.
1	"	"	<i>Hydalina albocincta</i> Hœv.
1	"	"	<i>Infundibulum</i> sp.?
1	"	"	<i>Lima squamosa</i> Lam.
1	"	"	<i>Mytilus</i> sp.?
1	"	"	<i>Nassa picta</i> Desh.
1	"	"	<i>Patella nigrisquamata</i> Rve.
2	"	"	<i>Pecten crassicosata</i> Sowb.
2	"	"	" <i>irregularis</i> Sowb.
1	"	"	" <i>squamosus</i> Gmel.
1	"	"	<i>Pleurotoma garnonsu</i> Rve.
1	"	"	<i>Scala lamellosa</i> Lam.
1	"	"	<i>Scutus unguis</i> Linn.
1	"	"	<i>Vulsella lingulata</i> Lam.

## BY EXCHANGE.

DR. BINION, New York City.

2 Specimens of *Cypræa cervus* Linn.

H. GOMEZ, New York City.

Numerous specimens of *Amnicola panamensis* Tryon.

30 " " " *vulcani* Martens.

C. DAYTON GWYER, New York City.

2 Specimens of *Anodonta cataracta* Say.

4 " " " *implicata* Say.

2 " " " *undulata* Say.

1 " " *Fulgur canaliculata* Say.

4 " " *Lymnæa auricularia* Linn.

1 " " *Lunatia heros* Say.

1 " " *Neverita duplicata* Say.

12 " " *Petricola pholadiformis* Lam.

3 " " *Pholas truncata* Say.

3 " " *Solen ensis* Linn.

1 " " *Tellina* sp.?

2 " " *Unio complanatus* Dillw.

MRS. E. O. HOVEY, New York City.

2 Specimens of *Zonites bilineata* var. *venusta* Shebel.

DR. THEODORE KORMOS, Budapest, Hungary.

476 Specimens, embracing 50 species of Hungarian Land Shells.



JOHN RITCHIE, JR., Boston, Mass.

- 2 Specimens of *Ashmunella rhyssa* var. *hyporhyssa* Cockerell.  
 2 " " *Bathybembex argenteonitens* Pils.  
 2 " " *Bulinus maritzburgensis* Melv. & Pons.  
 1 " " *Carychima noduliformis* Reinhardt.  
 2 " " *Eulota mackenzii* Ad. & Rve.  
 2 " " *Ganesella tanegashima* Pils.  
 3 " " *Hemitrochus gaymanensis* Maynard.  
 3 " " " *maynardi* Pils.  
 3 " " " *xanthophæus* Pils.

(The above three species types and cotypes.)

- 2 Specimens of *Leptopoma halophilum* Bens.  
 6 " " *Pupa (Bifidaria) armigerella* Rein.  
 3 " " *Stenogyra (Opeas) tuckeri* Pfr.

SLOMAN ROUS, New York City.

- 1 Specimen of *Columbarium pagoda* Less.  
 1 " " *Lyria cassidula* Rve.  
 1 " " *Patella nigrisquamata* var. *boninensis* Pils.  
 2 " " *Pedicularia californica* Newc.  
 10 " " *Plectopylis fulltoni* Godwin-Austin.

MAXWELL SMITH, New York City.

- 5 Specimens of *Achatinella abbreviata* Rve.  
 2 " " " *loricata* Fer.  
 4 " " " *olivacea* Rve.  
 5 " " " *ovata* Newc.  
 2 " " " *producta* Rve.  
 2 " " " sp.?  
 1 " " *Gyraulus vermicularis* Gould.  
 1 " " *Amalthea antiquata* Linn.  
 1 " " *Ancylus kirklandi* Walker.  
 1 " " " *patelloides* Walker var.  
 1 " " *Arionta traskii* Newc.  
 1 " " *Auricula stagnalis* D'Orb.  
 13 " " *Barbatia gradata* Swb.  
 1 " " *Bulla gouldiana* Pils.  
 1 " " *Calliostoma gloriosum* Dall.  
 1 " " *Cassis tenuis* Gray.  
 5 " " *Carinifex newberryi* Lea.  
 2 " " *Cerithium ocellatum* Brug.  
 3 " " *Cooperella diaphana* Cpr.  
 1 " " *Cypræa helvola* var. *hawaiiensis* Melv.  
 5 " " *Epiphragmophora stearnsiana* Gabb.  
 2 " " *Erato columbella* Mke.  
 2 " " *Eulima polita* Linn.  
 3 " " *Euryta aciculata* Linn.

11	specimens of	<i>Fluminicola nuttallina</i>	Lea.
5	"	"	<i>seminalis</i> Lea.
2	"	"	<i>virens</i> Lea.
1	"	"	<i>Gadinia reticulata</i> Cpr.
7	"	"	<i>Goniobasis nigrina</i> var.
1	"	"	<i>plicifera</i> Lea.
3	"	"	var. <i>oregonensis</i> Lea.
2	"	"	<i>Isapis fenestrata</i> Cpr.
1	"	"	<i>Limnaea bulimoides</i> Lea.
1	"	"	<i>decollata</i> Mgh.
1	"	"	<i>lanceolata</i> Walk.
2	"	"	<i>nuttalliana</i> Lea.
1	"	"	<i>Liotia acuticostata</i> Cpr.
3	"	"	<i>Lyonsia californica</i> Cpr.
3	"	"	<i>Mangelia striosa</i> Adams.
3	"	"	<i>Marginella jewettii</i> Cpr.
3	"	"	<i>pyriformis</i> Cpr.
1	"	"	<i>Metis alta</i> Conr.
1	"	"	<i>Monoceros lugubre</i> Swb.
2	"	"	<i>Murex incisus</i> Brod.
1	"	"	<i>nuttallii</i> Conr.
1	"	"	<i>Ovula avena</i> Sowb.
1	"	"	<i>deflexa</i> var. <i>barbarensis</i> Dall.
1	"	"	<i>uniplicata</i> Sowb.
1	"	"	<i>Pedicularia californica</i> Newc.
10	"	"	<i>Phasianella perforata</i> Phil.
1	"	"	<i>Physa ancillaria</i> var. <i>maqualacustus</i> Walker.
2	"	"	<i>Planorbis lentens</i> Walker.
3	"	"	<i>binneyi</i> Walker.
1	"	"	<i>Pomatias gracilis</i> Pfr.
1	"	"	<i>herei</i> Sloss.
1	"	"	<i>philippianus</i> Gade.
1	"	"	<i>plumbeus</i> West.
1	"	"	<i>scalarinus</i> Villa.
1	"	"	<i>septemspiralis</i> Raz.
1	"	"	<i>Semele rupium</i> Cpr.
1	"	"	<i>Triton gibbosus</i> Brod.
2	"	"	<i>Valvata virens</i> Tryon.
1	"	"	<i>Vitrinella complanata</i> Cpr.

MRS. H. A. ZECH, Los Angeles, Cal.

10	Specimens of	<i>Cooperella subdiaphana</i>	Cpr.
12	"	"	<i>Helix kellesti</i> Fbs.
8	"	"	<i>gabbi</i> Newc.
12	"	"	<i>Haminea vesicula</i> Gld.
5	"	"	<i>Ianthina exigua</i> Lam.

17 specimens of	<i>Marginella varia</i>	Swb.
1	"	" <i>Murex barbarensis</i> Gabb.
1	"	" " <i>foliatus</i> Mart.
1	"	" " <i>trialatus</i> Swb.
1	"	" <i>Tellina carpenteri</i> Dall.
1	"	" <i>Trivia pilula</i> Kien.

DEPARTMENT OF INVERTEBRATE ZOÖLOGY.

INVERTEBRATES.

BY GIFT.

ALEDA, COUNTESS VON KROCKOW, Brooklyn, N. Y.

Oyster shells attached to roots of the mangrove from Key Francis, Cuba.

W. H. ARNTON, New York City.

1 Tarantula, Barracoa, Cuba.

DR. S. A. BINION, New York City.

4 Specimens of Coral from Planter, Fla.

MESSRS. BORRELLI AND VITELLI, New York City.

9 Specimens of red and white Precious Coral from various parts of the world.

COLUMBIA UNIVERSITY, New York City.

1 Giant Spider Crab.

J. H. COMSTOCK, Ithaca, N. Y.

Stones containing Rock-boring Mites.

WILLIAM T. DAVIS, New Brighton, Staten Island.

2 Fresh-water Sponges.

PROF. BASHFORD DEAN, New York City.

Various invertebrates from the Sea of Japan.

P. J. EDER, New York City.

Various insects and scorpions from Cale, Cauca Valley, Colombia.

B. FROEHLY, New York City.

1 Queen White Ant from Bechuanaland, South Africa.

MRS. G. J. GUNTHER, New York City.

2 Sea-fans and 2 encrusting Millepores from Tortugas, Fla.

FRED HIRSHBACK, New York City.

1 Crab (*Leucosia perryi* Miers).

MR. JUDD, New York City.

1 Land Crab from eastern Cuba.

DR. CARL LUMHOLTZ, New York City.

3 Land Crabs from Jalisco, Mexico.

NEW YORK AQUARIUM, New York City.

Several Holothurians and Starfishes from the Grand Banks, Newfoundland.

DR. F. C. PAULMIER, Albany, N. Y.

1 Hermit Crab from Port Limon, Costa Rica.

F. SILVESTRI, Portici, Italy.

Collection of South American Ants.

DR. N. YATSU, Japan.

2 Nummulites from Japan.

BY PURCHASE.

1 Lot of *Sagartia*, including 6 species.

1 Large Monaxonid Sponge from Santa Lucia, West Indies.

1 Large specimen of *Ctenactes*.

1 Specimen of Glass Sponge (*Ilyalaseus similis* Ijima). Type and only specimen from coast of Totomi, Japan.

Various insects and centipedes from Venezeula and Guiana.

1 Collection of tropical ants.

THROUGH MUSEUM EXPEDITIONS.

1,577 Fossil insects and leaves, including 1,006 ants from Florissant, Colo. Collected by Dr. William M. Wheeler.

Various invertebrates from Woods Hole, Mass. Collected by Mr. E. Müller.

Various ants, mollusks and beetles. Collected by Dr. Alexander Ruthven and Mr. Gneomar von Krockow in New Mexico and Arizona.

ACRANIA.

BY GIFT.

G. H. PARKER, Harvard University, Cambridge, Mass.

5 Specimens of *Branchiostoma caribbeum* from the Bermudas.

REPTILES AND BATRACHIANS.

BY GIFT.

DR. S. A. BINION, New York City.

1 Terrapin and 2 Lizards from Key Largo, Fla.

MISS ESTHER CARST, New York City.

1 Snake skin.

CENTRAL PARK MENAGERIE, New York City.

1 Rock Python.

JAMES CHAPIN, New York City.

1 *Hyla andersoni* from Lakehurst, N. J.

2 Larvæ of *Hyla andersoni*.

- WILLIAM T. DAVIS, New Brighton, Staten Island.  
 1 *Rana virgatipes* from Lakehurst, N. J.
- P. J. EDER, New York City.  
 11 Snakes from Cale, Colombia.
- A. HERMANN, New York City.  
 2 *Phrynosoma regalis* from Phoenix, Ariz.
- GNEOMAR VON KROCKOW, New York City.  
 1 Lot of young Water-snakes from Saugerties, N. Y.
- NEW YORK AQUARIUM, New York City.  
 1 Soft-shelled Turtle.
- DR. ALEXANDER G. RUTHVEN, Ann Arbor, Mich.  
 1 Leopard Lizard from Utah.
- F. A. SCHNEIDER, New York City.  
 4 Salamanders.
- DR. S. C. THOMPSON, San Francisco, Cal.  
 Various reptiles and batrachians from California.

## BY PURCHASE.

- 4 Lizards from summit of Doros Mountains, Turkey in Asia.  
 3 Crocodile skulls.  
 Various reptiles from Venezuela and Dutch Guiana.

## THROUGH MUSEUM EXPEDITIONS.

- Various batrachians and reptiles from Culebra, Porto Rico. Collected by Dr. William M. Wheeler.  
 About 1,000 reptiles and batrachians from New Mexico and Arizona. Collected by Dr. Alexander Ruthven and Mr. Gneomar von Krockow.

## FISHES.

## BY GIFT.

- JAMES CHAPIN, New York City.  
 1 Menhaden.
- WILLIAM CHAPMAN, Albany, N. Y.  
 5 Specimens of *Cottus icталops* Raf. from Nipegon River, Canada.
- PROF. BASHFORD DEAN, New York City.  
 Various fishes and fish-eggs from the Sea of Japan.
- NEW YORK AQUARIUM, New York City.  
 24 Fishes from various localities.  
 1 *Tarpon atlanticus*.
- UNITED STATES FISH COMMISSION, Washington, D. C.  
 1 Lot of California and Argentine fishes, including 12 species.

## BY PURCHASE.

- 1 Collection of Guatemala fishes from the Motagua River. Collected by Mr. Newton Miller, Indiana University.

## BIRDS.

## BY PURCHASE.

- 1 *Apteryx mantelli* from New Zealand.

## PLANTS.

## BY GIFT.

MISS IDA ADAMS, New York City.

Various dried plants.

REV. JOHN T. WILDS, New York City.

1 Specimen of Bird Cherry from eastern Tennessee.

## DEPARTMENT OF MAPS AND CHARTS.

## BY GIFT.

WILLIAM BEUTENMÜLLER, New York City.

3 Maps and 1 Atlas.

MISS J. BROWN, Brooklyn, N. Y.

90 Maps and 3 Atlases.

DR. H. C. BUMPUS, New Rochelle, N. Y.

1 Map.

CARTAGENA-MAGDALENA RAILROAD COMPANY, Mexico.

2 Maps.

DEPARTMENT OF THE INTERIOR, Dominion of Canada.

3 Maps.

NEW YORK STATE ENGINEER AND SURVEYOR, Albany, N. Y.

1 Map.

F. B. ROSS, Hackensack, N. J.

1 Map.

F. SCHNEIDER, Brooklyn, N. Y.

1 Map.

UNITED STATES COAST AND GEODETIC SURVEY, Washington, D. C.

1 Atlas.

CAPT. B. F. WALLING, "S. S. Alliance."

1 Map.

MISS LUCY A. WOODWARD, New York City.

10 Maps.

BY EXCHANGE.

UNITED STATES GEOLOGICAL SURVEY, Washington, D. C.

33 Maps and 44 Atlases.

NEW JERSEY GEOLOGICAL SURVEY.

3 Maps.

GEOLOGICAL SURVEY OF CANADA.

1 Map.

BY PURCHASE.

UNITED STATES GEOLOGICAL SURVEY, Washington, D. C.

679 Sheets.

LOANS.

NEW YORK ACADEMY OF SCIENCES.

33 Atlases.





# 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 and recreation.

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



# 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 con-

tinuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

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

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

grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

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

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

In presence of  
D. PORTER LORD.

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

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

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

SEAL  
of the American  
Museum of  
Natural History

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

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

[SEAL.]

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

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

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

[SEAL.]

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

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

Witness my hand and official seal,

[SEAL.]

FREDERICK W. LOEW,  
*Register.*

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

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



CONSTITUTION  
OF THE  
AMERICAN MUSEUM OF NATURAL HISTORY,  
IN THE CITY OF NEW YORK.

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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, shall be the Trustees to manage the affairs, property and business of the Corporation.

The members of the Board of Trustees holding office at the time of the regular quarterly meeting of November, 1905, shall then, or at the first meeting of the Board thereafter, be divided by lot into five classes of five members each, to serve for the terms of one, two, three, four and five years respectively from the date of the annual meeting of February, 1906. The Board of Trustees at each annual meeting thereafter, or an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect five Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years or until their successors are elected. In case of a vacancy in the Board by death, resignation, disqualification or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular meeting or special meeting, for the unexpired term. No person shall be eligible for election as Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board, nor be

eligible unless his name shall be presented by the Nominating Committee at a regular or special meeting of the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

### ARTICLE III.

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

### ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary. The President and Vice-Presidents shall be elected from among the Trustees. The Treasurer and Secretary may or may not be chosen from such Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

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

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

#### ARTICLE V.

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

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

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act.

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

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

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

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

#### ARTICLE VI.

The Executive Committee shall consist of nine Trustees, of whom the President, First and Second Vice-Presidents and Treasurer, in case he be a Trustee, shall be four, and five other members to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

#### ARTICLE VII.

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

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

#### ARTICLE VIII.

The Finance Committee shall consist of four Trustees, including the Treasurer in case he be a Trustee. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

## ARTICLE IX.

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

## ARTICLE X.

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

## ARTICLE XI.

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

## ARTICLE XII.

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

## ARTICLE XIII.

The contribution of \$1,000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

*No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.*

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of 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, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

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

#### ARTICLE XIV.

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

#### ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

## BY-LAWS.

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### I.

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 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and 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 Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

### II.

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

### III.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

### IV.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting

as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

## V.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

## VI.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

## VII.

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



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

LEGAL ENACTMENTS OF 1905.

BY THE BOARD OF ALDERMEN.

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

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

SECTION 1. The Board of Aldermen hereby approves of and concurs in the following resolution adopted by the Board of Estimate and Apportionment March 16, 1905, and authorizes the Comptroller to issue Corporate Stock of The City of New York to the amount and for the purposes therein specified:

"*Resolved*, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York, to an amount not exceeding five hundred thousand dollars (\$500,000), to provide means for the equipping and furnishing of The American Museum of Natural History in Manhattan Square, Borough of Manhattan, and the construction of additions thereto, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five hundred thousand dollars (\$500,000), the proceeds whereof to be applied to the purposes aforesaid."

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

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

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Contracts awarded to December 31, 1906.

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

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

Completed January 11, 1907.

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

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

APPROPRIATION AND EXPENDITURES MADE THEREON  
TO DECEMBER 31, 1906.

APPROPRIATION :

By Direct Appropriation.....	\$500,000 00	
Premium on Sale of Bonds.....	3,570 81	
		\$503,570 81

EXPENDITURES:

Museum Orders.....	\$15,077 73	
Carpenters' Payroll, etc.....	16,800 62	
Cady, Berg & See.....	6,935 71	
R. J. F. Gerstle Co.,		
Payments to Dec. 31, 1906....	16,134 70	
Charles Volz, Architect's Fees.	899 31	
Guidone & Galardi,		
Payments to Dec. 31, 1906....	65,000 00	
Charles Volz, Architect's Fees.	9,749 99	
Total Expenditures to Dec. 31, 1906,	\$130,598 06	

OUTSTANDING CONTRACTS :

R. J. F. Gerstle Co., balance.....	\$3,703 30	
Charles Volz, balance.....	92 59	
Guidone & Galardi, balance.....	260,000 00	
Charles Volz, balance.....	6,500 01	270,295 90
		400,893 96
Available Balance Dec. 31, 1906.....	\$102,676 85	

## PATRONS.

MORRIS K. JESUP.  
 ROBERT L. STUART.\*  
 Miss C. L. WOLFE.\*  
 ROBERT COLGATE.\*  
 FREDERIC W. STEVENS.  
 PERCY R. PYNE.\*  
 JAMES M. CONSTABLE.\*  
 JOHN B. TREVOR.\*  
 ADRIAN ISELIN.\*  
 HUGH AUCHINCLOSS.\*  
 JOSEPH W. DREXEL.\*  
 WILLIAM E. DODGE, 1st.\*  
 JOHN D. WOLFE.\*  
 ABRAM S. HEWITT.\*  
 C. VANDERBILT.\*  
 J. PIERPONT MORGAN.  
 CHARLES LANIER.  
 D. JACKSON STEWARD.\*  
 EDWARD CLARK.\*  
 A. G. PHELPS DODGE.  
 JAMES BROWN.\*  
 A. T. STEWART.\*  
 S. WHITNEY PHENIX.\*  
 BENJAMIN H. FIELD.\*  
 WILLIAM T. BLODGETT.\*  
 OLIVER HARRIMAN.\*  
 ROBERT BONNER.\*  
 JAMES B. COLGATE.\*  
 ALEXANDER STUART.\*  
 WILLIAM A. HAINES.\*  
 BENJAMIN AYMAR.\*  
 RICHARD ARNOLD.\*  
 JOSEPH H. CHOATE.  
 JONATHAN THORNE.\*  
 Miss PHEBE ANNA THORNE.  
 D. O. MILLS.  
 JOHN A. C. GRAY.\*  
 HEBER R. BISHOP.\*  
 CHAS. G. LANDON.\*  
 WILLIAM E. DODGE, 2d.\*  
 PETER COOPER.\*  
 WILLIAM H. ASPINWALL.\*  
 B. H. HUTTON.\*  
 J. TAYLOR JOHNSTON.\*

D. N. BARNEY.\*  
 I. N. PHELPS.\*  
 JAMES STOKES.\*  
 D. WILLIS JAMES.  
 EDWARD MATTHEWS.  
 WILLIAM T. GARNER.\*  
 JAMES LENOX.\*  
 A. H. BARNEY.\*  
 COLEMAN T. ROBINSON.\*  
 BENJAMIN B. SHERMAN.\*  
 JAMES R. ELY.  
 JONAS G. CLARK.\*  
 JOHN ANDERSON.\*  
 JOHN JACOB ASTOR.\*  
 WILLIAM WALDORF ASTOR.  
 CATHERINE L. SPENCER.\*  
 JAS. GORDON BENNETT.  
 CYRUS W. FIELD.\*  
 ALEX. H. BROWN, M. P.  
 J. A. BOSTWICK.\*  
 FREDERICK BILLINGS.\*  
 Mrs. ROBERT L. STUART.\*  
 JESSE SELIGMAN.\*  
 THEODORE ROOSEVELT.  
 OSWALD OTTENDORFER.\*  
 J. HAMPDEN ROBB.  
 J. F. LOUBAT.  
 H. J. JEWETT.\*  
 WM. D. SLOANE.  
 D. G. ELLIOT.  
 Lieut. G. T. EMMONS, U. S. N.  
 C. P. HUNTINGTON.\*  
 GEO. W. VANDERBILT.  
 EDWARD D. ADAMS.  
 WILLIAM C. SCHERMERHORN.\*  
 JOHN J. CROOKE.  
 HENRY SELIGMAN.  
 RICHARD T. WILSON.  
 JOHN E. PARSONS.  
 FRANCIS O. MATTHIESSEN.\*  
 A. J. FORBES-LEITH.  
 GEORGE BLISS.\*  
 M. C. D. BORDEN.  
 ARCHIBALD ROGERS.

\* Deceased

GEORGE C. COOPER.\*  
 MRS. M. SCHUYLER ELLIOT.  
 APPLETON STURGIS.\*  
 THEODORE A. HAVEMEYER.\*  
 WILLIAM C. WHITNEY.\*  
 GEORGE G. HAVEN.  
 JAMES BAKER SMITH.\*  
 CYRUS W. FIELD, Jr.\*  
 JAMES ANGUS.\*  
 HENRY VILLARD.\*  
 DR. WM. PEPPER.\*  
 AUSTIN CORBIN.\*  
 ANSON W. HARD.  
 GUSTAV E. KISSEL.  
 ELBRIDGE T. GERRY.  
 DR. EDGAR A. MEARNES, U. S. A.  
 JOHN D. CRIMMINS.  
 MRS. WM. H. OSBORN.\*  
 HENRY FAIRFIELD OSBORN.  
 JONATHAN THORNE.  
 VICTOR CORSE THORNE.  
 EDWIN THORNE.  
 JOEL WOLFE THORNE.  
 W. M. DONGAN DE PEYSTER.  
 HICKS ARNOLD.\*  
 J. PIERPONT MORGAN, Jr.  
 WM. CHURCH OSBORN.  
 ALEXANDER I. COTHEAL.\*  
 WM. ROCKEFELLER.  
 B. T. BABBITT HYDE.  
 FREDERICK E. HYDE, Jr.  
 L. P. DI CESNOLA.\*  
 GEORGE DEXTER BRADFORD.\*  
 HENRY O. HAVEMEYER.  
 A. D. JUILLIARD.  
 DR. FREDERICK E. HYDE.  
 MRS. JOHN B. TREVOR.  
 WM. SCHAUS.  
 JOHN B. MARCOU.  
 PHILLIPE MARCOU.  
 GEORGE T. BLISS.\*  
 GEORGE A. HEARN.  
 MRS. MORRIS K. JESUP.

DR. ELIZABETH M. STURGIS.  
 FREDERICK A. CONSTABLE.\*  
 CHARLES M. JESUP.  
 PERCY R. PYNE.  
 EDWIN H. WEATHERBEE.  
 SUSAN DWIGHT BLISS.  
 GEORGE S. BOWDOIN.  
 JOHN L. CADWALADER.  
 MRS. C. P. HUNTINGTON.  
 ARCHER M. HUNTINGTON.  
 GEORGE FOSTER PEABODY.  
 JOHN D. ROCKEFELLER.  
 JOHN D. ROCKEFELLER, Jr.  
 JACOB H. SCHIFF.  
 Rev. RODERICK TERRY, D. D.  
 JOHN T. TERRY, Jr.  
 MRS. F. F. THOMPSON.  
 ANDREW E. DOUGLASS.\*  
 Very Rev. E. A. HOFFMAN, D. D., LL. D. \*  
 HAROLD GARRISON VILLARD.  
 EDWARD M. SHEPARD.  
 LUDWIG MAX GOLDBERGER.  
 MRS. EUGENE A. HOFFMAN.  
 JAMES H. HYDE.  
 ARTHUR CURTISS JAMES.  
 CLEVELAND H. DODGE.  
 HENRY W. POOR.  
 HENRY CLAY PIERCE.  
 CORNELIUS C. CUYLER.  
 MRS. ABRAM S. HEWITT.  
 Miss MATILDA W. BRUCE.  
 HERMON C. DUMPUS.  
 ROBERT W. GOELET.  
 MRS. GUY ELLIS BAKER.  
 ADRIAN ISELIN, Jr.  
 SETH LOW.  
 MRS. FREDERICK A. CONSTABLE.  
 ADOLPH LEWISOHN.  
 MRS. WILLIAM E. DODGE.  
 J. G. PHELPS STOKES.  
 SAMUEL V. HOFFMAN.  
 MRS. FRANK K. STURGIS.

\* Deceased.

FELLOWS.

SAMUEL WILLETS.\*  
 ROBERT GORDON.  
 HOWARD POTTER.\*  
 C. V. S. ROOSEVELT.\*  
 CHARLES W. GRISWOLD.\*  
 SAMUEL F. B. MORSE.\*  
 RUTHERFORD STUYVESANT.  
 MEREDITH HOWLAND.\*  
 MARSHALL O. ROBERTS.\*  
 JOHN ALSTYNE.\*  
 O. B. POTTER.\*  
 HON. LEVI P. MORTON.  
 HANSON K. CORNING.\*  
 STEWART BROWN.\*  
 ABRAM DUBOIS.\*  
 TIFFANY & Co.  
 LUCIUS TUCKERMAN.  
 ALFRED B. DARLING.\*  
 A. A. LOW.\*  
 RICHARD MORTIMER, Jr.  
 THOS. A. VYSE, Jr.  
 GEORGE G. GRAY.\*  
 GOUVERNEUR KEMBLE.\*  
 SAMUEL HAWK.\*  
 JOHN SNEDEN.\*  
 GEORGE BLISS.\*  
 R. A. WITTHAUS, M. D.  
 THOMAS BARRON.\*  
 GEORGE W. CASS.\*  
 CHARLES W. CASS.\*  
 H. M. SCHIEFFELIN.\*  
 WILLIAM LIBBEY, Jr.  
 ROBERT LENOX KENNEDY.\*  
 F. R. HALSEY.  
 CYRUS W. FIELD, Jr.\*  
 H. M. FLAGLER.  
 D. B. IVISON.\*  
 H. MCK. TWOMBLY.  
 HENRY G. MARQUAND.\*  
 JOHN T. TERRY.

JOSIAH M. FISKE.\*  
 ELLIOTT F. SHEPARD.\*  
 JOHN SLOANE.\*  
 JOHN D. ROCKEFELLER.  
 PHILLIPS PHENIX.  
 LLOYD PHENIX.  
 Mrs. GEO. W. COLLORD.  
 Gen. EGBERT L. VIELE, U. S. A.\*  
 WM. H. HARBECK.\*  
 DAVID WOLFE BISHOP.  
 CORTLANDT FIELD BISHOP.  
 WHEATON B. KUNHARDT.  
 SAMUEL P. AVERY.\*  
 JAMES H. JONES.  
 JAMES B. HAGGIN.  
 Mrs. RICHARD P. DANA.\*  
 JAMES THOMSON.\*  
 AYMAR JOHNSON.  
 PHILIP SCHUYLER.\*  
 FRANCIS CHILD NICHOLAS, Ph. D.  
 Very Rev. E. A. HOFFMAN, D. D., LL. D.\*  
 Miss LAURA P. HALSTED.  
 ROBERT S. BREWSTER.  
 JOHN L. CADWALADER.  
 WM. EARL DODGE, 4th.  
 WM. LANMAN BULL.  
 CHARLES M. JESUP.  
 SAMUEL N. HOYT.  
 CHARLES T. BARNEY.  
 HENRY W. POOR.  
 LEWIS S. THOMPSON.  
 JAMES C. CARTER.\*  
 H. B. HOLLINS.  
 F. AUGUSTUS SCHERMERHORN.  
 Mrs. HARRIET L. SCHUYLER.  
 Dr. WILLIAM W. RADLOFF.  
 CHARLES D. STICKNEY.  
 Mrs. FRANK K. STURGIS.  
 Prof. CHAS. F. CHANDLER.

\* Deceased.

## LIFE MEMBERS.

ERNEST KEMPTON ADAMS.\*  
 C. R. AGNEW.  
 G. B. AGNEW.  
 JOHN E. ALEXANDRE.  
 Admiral ALEXIEFF.  
 RICHARD H. ALLEN.  
 BERNARD G. AMEND.  
 MRS. BLANCHE L. ANDREWS.  
 CONSTANT A. ANDREWS.  
 FRANCIS R. APPLETON.  
 MRS. MARTIN ARCHER-SHEE.  
 S. T. ARMSTRONG, M. D.  
 B. G. ARNOLD.\*  
 JOHN JACOB ASTOR.  
 J. T. ATTERBURY.  
 HUGH D. AUCHINCLOSE.  
 SAMUEL P. AVERY.\*  
 SAMUEL P. AVERY, JR.  
 MRS. JAMES C. AYER.\*  
 Miss E. AYMAR.  
 JAMES A. BAILEY.\*  
 JAS. MUHLENBERG BAILEY.  
 JOSEPH C. BALDWIN.  
 DAVID BANKS.  
 HENRY I. BARBEY.\*  
 MRS. P. HACKLEY BARHYDT.  
 THOMAS BARING.  
 FORDYCE BARKER, M. D.\*  
 Miss CORA F. BARNES.  
 JOHN S. BARNES.  
 J. O. BARTHOLOMEW.\*  
 W. H. BEADLESTON.\*  
 GEORGE E. BELCHER, M. D.\*  
 BERTRAND F. BELL.  
 C. M. BELL, M. D.\*  
 DENNISTOUN M. BELL.  
 AUGUST BELMONT.  
 THEODORE BERDELL.\*  
 JOHN E. BERWIND.  
 SAMUEL R. BETTS.  
 MRS. ALBERT BIERSTADT.  
 FREDERICK BILLINGS.  
 Miss MARY M. BILLINGS.  
 Miss CATHERINE A. BLISS.

CORNELIUS N. BLISS.  
 GEORGE BLUMENTHAL.  
 A. K. BOLAN.  
 GEORGE C. BOLDT.  
 FREDERICK G. BOURNE.  
 MRS. WM. H. BRADFORD, Sr.  
 HENRI M. BRAEM.\*  
 BENJAMIN BREWSTER.  
 GEORGE S. BREWSTER.  
 WILLIAM BREWSTER.  
 CHAS. P. BRITTON.  
 Hon. ADDISON BROWN.  
 FRANK G. BROWN.\*  
 GEORGE H. BROWN.\*  
 JAMES M. BROWN.\*  
 J. HULL BROWNING.  
 DAVID L. BRUCE-BROWN.  
 GEO. MCKESSON BROWN.  
 Miss MATILDA W. BRUCE.  
 R. L. BURTON.  
 JOSEPH BUSHNELL.  
 THOMAS C. BUSHNELL.\*  
 JOHN L. CADWALADER.  
 MRS. ALEX. CAMERON.  
 KATHARINE L. CAMMANN.  
 CHAS. M. CAULDWELL, M. D.  
 ISAAC P. CHAMBERS.\*  
 C. W. CHAPIN, JR.  
 MRS. GEO. H. CHATILLON.  
 HENRY CHAUNCEY.  
 J. E. CHILDS.  
 HUGH J. CHISHOLM.  
 E. DWIGHT CHURCH.  
 FREDERIC E. CHURCH.\*  
 LESTER B. CHURCHILL.  
 AUGUSTUS L. CLARKSON.  
 BANYER CLARKSON.  
 GEORGE C. CLAUSEN.  
 CHAS. D. CLEVELAND.  
 TREADWELL CLEVELAND.  
 HENRY CLEWS.  
 W. R. COE.  
 CHARLES L. COLBY.\*  
 W. W. COLE.

\* Deceased.

BIRD S. COLER.  
 EDWARD COLGATE.\*  
 WILLIAM COLGATE.  
 Miss GEORGETTE T. A. COLLIER.  
 Miss ELLEN COLLINS.  
 SAMUEL D. COLLINS.  
 GEORGE W. COLLORD.  
 Mrs. WILLIAM COMBE.  
 FRED. H. COMSTOCK.  
 WASHINGTON E. CONNOR.  
 CHARLES H. CONTOIT.\*  
 Wm. L. CONYNGHAM.  
 HENRY H. COOK.  
 EDWARD COOPER.\*  
 THEODORE COOPER.  
 JOHN J. CORNING.  
 Mrs. SALLY MORRIS CORY.  
 ALEX. I. COTHEAL.\*  
 Miss ELLEN H. COTHEAL.  
 DAVIES COXE, M. D.  
 S. D. COYKENDALL.  
 ZENAS CRANE.  
 FREDERIC CROMWELL.  
 JAMES CRUIKSHANK.\*  
 CHAS. M. DA COSTA.\*  
 A. DALRYMPLE.\*  
 BENJAMIN P. DAVIS.\*  
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 CHAS. STEWART DAVISON.  
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Doll, Jacob	Elliott, Mrs. George	Foster, Edward W.
Dommerich, L. F.	Ellis, John W.	Foster, J. Hegeman
Doremus, R. P.	Ellis, W. H.	Foster, Scott
Dormitzer, Henry	Ely, Frederick G.	Frankenberg, W. V.
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Douglass, Alfred	Embury, Miss Emma C.	Fraser, Alfred
Dow, Mrs. Frederic G.	Emmet, C. Temple	Fraser, Mrs. Geo. S.
Dowd, Joseph	Emmet, Miss Lydia F.	Freedman, Andrew
Downey, John I.	Emmet, Robert Temple	French, S. A.
Dows, Mrs. David	Engler, Ad.	Friedlander, Louis
Dows, Mrs. David, Jr.	Eno, Jno. Chester	Fries, Emilie
Drake, Miss Mary E.	Erbsloh, R.	Frissell, A. S.
Drakenfeld, B. F.	Erdmann, Martin	Frothingham, H. P.
Draper, Chas. A.	Escobar, Francisco	Frye, Jed
Drayton, J. Coleman	Ettlinger, Louis	Fuller, Mrs. Eugene
Drey, Morris	Evans, Richard	.
Drummond, I. Wyman	Evans, William T.	Gade, W. F.
Duane, James May		Gallagher, Miss Angela
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DuBois, Miss Katharine	Fahnestock, H. C.	Gardiner, James T.
DuBois, Dr. Matthew B.	Faile, Chas. V.	Garver, John A.
Dudley, P. H.	Fairchild, Benjamin T.	Gawtry, H. E.
Dulles, Wm., Jr.	Fairchild, Charles S.	Gay, Joseph E.
Duncan, Stuart	Fairchild, S. W.	Geer, George J.
Dunham, Dr. Carroll	Fargo, James C.	Geer, Robert C.
Dunham, G. H.	Farnham, Mrs. H. P.	Geer, Walter
Dunham, H. F.	Farragut, Loyall	Gemmell, John, Jr.
Dunlap, Mrs. R.	Fatman, Morris	Gerard, Victor
Durand, John S.	Fay, Sigourney W.	Gerrish, Frank Scott
Durkee, Eugene W.	Fearons, George H.	Gibney, V. P.
Dutcher, William	Ferguson, Alfred L.	Gilbert, Clinton
Dutton, Chas. T.	Ferguson, Mrs. Farquhar	Gillies, Edwin J.
Dwight, Dr. Jonathan, Jr.	Ferris, Frank A.	Gilmore, W. S.
	Field, Wm. B. Osgood	Glatz, Charles
Eastman, Dr. Robert W.	Fischer, T. Tasso	Glazier, Henry S.

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 Godfrey, Mrs. E. D.  
 Godkin, Mrs. E. L.  
 Goebel, Lewis S.  
 Goldschmidt, Geo. B.  
 Goldschmidt, S. A.  
 Goodchild, John  
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 Goodfriend, Meyer  
 Goodhue, Charles E.  
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 Gottheil, Paul  
 Gould, Chas. W.  
 Gould, Edwin  
 Gould, Miss Helen M.  
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 Graham, Robert Dun  
 Grant, R. Suydam  
 Graves, Wm. Leon  
 Greeff, Ernest F.  
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 Haines, Henry F.  
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 Hall, Mrs. John H.  
 Hall, W. H.  
 Halls, William, Jr.  
  
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 Halsey, John R.  
 Halsey, R. T. H.  
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 Hasslacher, Jacob  
 Hastings, Thos. S.  
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 Havemeyer, John F.  
 Haven, John  
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 Havron, John  
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 Hawke, Madison G.  
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 Hazen, George H.  
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 Heide, Henry  
 Heimann, Julius  
  
 Heineman, Moses  
 Heinsheimer, L. A.  
 Heinze, Arthur P.  
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 Heminway, Homer  
 Hendricks, Edmund  
 Hendricks, Francis  
 Hendricks, Harmon W.  
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 Henning, Gustavus C.  
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 Hirsch, Charles S.  
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 Hoe, William J.  
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 Homans, Mrs. Edw. C.



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 Hudson, Percy K.  
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 Kahn, Otto H.  
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 Lemp, Louis  
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 Levi, Emil S.  
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 Loeb, James  
 Loewi, Valentine  
 Loewy, Benno  
 Lord, Franklin B.  
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 Louis, Chas. H.  
 Lounsbery, R. P.  
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 Low, C. Adolphe  
 Lowell, Miss C. Russell  
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 Ludington, C. H.  
 Ludlow, James B.  
 Lueder, A.  
 Lummis, Benjamin R.  
 Lummis, Wm.  
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 Luttggen, Wm.  
 Lyman, Henry D.  
 Lynde, Rollin H.  
 Lyon, Ralph
- Maas, Gustavus  
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 Mackay, G. D.  
 Mackenzie, Duncan E.  
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 Macy, George H.  
 Macy, Wm. H., Jr.
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 Mahl, Wm.  
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 Mansbach, E.  
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 Mapes, Eugene E.  
 Marbury, Miss E.  
 Marc, Theophilus M.  
 Marcus, Arnold  
 Mark, Jacob L.  
 Markle, John  
 Markoe, J. W.  
 Marling, Alfred E.  
 Marlor, Henry S.  
 Maron, Otto  
 Marsh, C. P.  
 Marsh, J. A.  
 Marshall, Charles H.  
 Marston, Edgar L.  
 Marston, Edwin S.  
 Martin, E. Howard  
 Martin, W. M.  
 Martinez, M. R.  
 Marvin, Charles D.  
 Massey, George  
 Mastin, J. Edward  
 Matheson, Wm. J.  
 Mathews, Thomas  
 Matthiessen, Marie  
 Mayer, Marcus  
 Maynard, George W.  
 McAleenan, Henry A.  
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 McAlpin, George L.  
 McBean, Duncan D.  
 McCagg, Louis B.  
 McCosh, Dr. A. J.  
 McCready, Mrs. C. A.  
 McCurdy, Richard A.  
 McGovern, James  
 McGraw, James H.  
 McIndoe, Peter W.  
 McIntyre, Ewen  
 McKelvey, J. J.

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 McKenzie, Angus  
 McKeon, John C.  
 McKibbin, Gilbert H.  
 McKim, Rev. Haslett  
 McKim, John A.  
 McLane, Jas. W., M.D.  
 McLean, George H.  
 McMahan, Rev. Jos. H.  
 McNaughton, Alex.  
 McWilliams, D. W.  
 Meigs, Titus B.  
 Melcher, John S.  
 Mellen, C. S.  
 Meloy, Andrew D.  
 Merck, George  
 Meredith, Wm. T.  
 Mergentime, J. H.  
 Merrill, William J.  
 Metz, Herman A.  
 Meyer, Dr. Alfred  
 Meyer, Amandus  
 Meyer, George A.  
 Meyer, Harry J.  
 Meyer, Robert B.  
 Meyer, Thomas C.  
 Meyn, Heinrich  
 Middleton, A. D.  
 Milbank, Joseph  
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 Mills, John T., Jr.,  
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 Mitchell, Cornelius B.  
 Mitchell, John J.  
 Mitchell, Miss M. E.  
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 Moller, Peter, Jr.  
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 Morris, Henry Lewis  
 Morris, John  
 Morris, Theo. Wilson  
 Morrison, Edward A.  
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 Mott, Henry C.  
 Muller, Carl  
 Muller, Mrs. Clemens  
 Mulry, Thomas M.  
 Munsey, Frank A.  
 Munson, C. W.  
 Murray, F. W., M.D.  
 Murray, J. Irvin, Jr.  
 Murtha, Thomas F.  
 Muschenheim, Wm. C.  
 Myers, Chas. A.  
 Myers, J. G.  
 Myers, Theodore W.  
 Nash, E. S.  
 Nash, Wm. A.  
 Nathan, Frederick  
 Nathan, Harmon H.  
 Nelson, Mrs. S. B.  
 Neuburger, David  
 Neustadt, S.  
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 Nichols, Seth  
 Niles, Nathaniel  
 Ninick, Mrs. A. K.  
 Norris, Henry D.  
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 North, Thomas M.  
 Norton, Ex.  
 Notman, George  
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 Nunn, Richard J., M.D.  
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 O'Brien, J. M.  
 Obrig, Adolph  
 Ochs, Adolph S.  
 Oettinger, P. J.  
 Ogden, Robert C.  
 Olcott, E. E.  
 Olcott, F. P.  
 Olcott, Geo. M.  
 Oldham, J. L.  
 Olin, S. II.  
 Ollive, Thos. S.  
 Olyphant, R. M.  
 Olyphant, Robert  
 Opdycke, Mrs. Emerson  
 Oppenheimer, Dr. H. S.  
 O'Rourke, John F.  
 Orr, Wm. C.  
 Ortgies, John  
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 Ottinger, Marx  
 Ottman, Louis  
 Oudin, Lucien  
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 Parsell, Henry V. A.  
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 Parsons, Herbert  
 Parsons, Schuyler L.  
 Paterson, R. W.  
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 Pell, Stephen H. P.  
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 Penniman, George H.  
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 Pentz, Frank R.  
 Peoples, W. T.  
 Perkins, George W.  
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 Perry, Chas. J.  
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 Phillips, Guy  
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 Piel, Gottfried  
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 Pierce, Robert Morris  
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 Pinkus, F. S.  
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 Rawson, Edward S.  
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 Remick, W. H.  
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 Rogers, Robert  
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 Rowland, George P.  
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 Rowland, Thomas Fitch  
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 Ruperti, Justus

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Seligman, Jefferson  
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Simpson, John W.  
Sinclair, John  
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- Smith, Nathaniel S.  
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Speir, Archibald W.  
Sperry, Wm. M.  
Speyer, Leo  
Spitzner, Geo. W.  
Spring, Miss Anna R.  
Squibb, Edw. H., M.D.  
Stanley, Mervin C.  
Stanton, J. R.  
Starbuck, C. A.  
Starin, John H.  
Starr, M.A., M.D., LL.D.  
Stearns, John Noble  
Stearns, Louis  
Stebbins, Jas. H.  
Steele, Rev. J. Nevett  
Steinbrugge, E. Jr.  
Steinthal, Martin  
Steinway, Fred. T.  
Steinway, Wm. R.  
Stephens, Benjamin  
Stern, Benjamin  
Sternberger, Maurice M.  
Sterrett, C. N.  
Stettenheim, I. M.  
Stevenson, C. C.  
Stewart, John A.  
Stewart, Lisenard  
Stewart, William R.  
Stiehl, Gustav H.  
Stiger, E. M.  
Stillman, Miss C. R.  
Stillman, J. A.  
Stone, Mrs. Georgiana C.  
Stone, Mason A.  
Stone, Sumner R.  
Storm, Clarence

- Story, Wm. Cummings  
 Stratford, Wm.  
 Strause, H. P.  
 Strauss, Frederick  
 Strong, R. A.  
 Sturges, Henry C.  
 Sturgis, F. K.  
 Stursberg, Julius A.  
 Sulzberger, Cyrus L.  
 Sutphen, John S., Jr.  
 Swayne, Francis B.  
 Swenson, Master S. R.  
 .  
 Taft, Henry W.  
 Tag, Albert  
 Taggart, Rush  
 Tailer, Edward N.  
 Taintor, Charles N.  
 Talcott, James  
 Talmadge, Henry  
 Tanenbaum, Leon  
 Taylor, Mrs. Aug. C.  
 Taylor, George  
 Taylor, Henry R.  
 Taylor, Stevenson  
 Taylor, W. A.  
 Tefft, Erastus T.  
 Terrell, H. L.  
 Tesla, Nikola  
 Thacher, Thomas  
 Thalmann, E.  
 Thaw, Dr. A. Blair  
 Thaw, Benjamin  
 Thayer, H. B.  
 Thebaud, Paul G.  
 Thomas, George C.  
 Thompson, David W.  
 Thompson,  
     Mrs. J. Todhunter  
 Thompson, J. Walter  
 Thompson, John C.  
 Thompson, Mrs. S. C.  
 Thompson, W. Prall  
 Thorne, W. V. S.  
 Thorne, Mrs. W. V. S.  
 Thorp, John R.  
 Tierney, Myles  
 Tiffany, Louis C.  
 Tiffany, Rev. C. C.  
 Tillotson, John B.  
 Tim, Bernard L.  
 Timpson, James  
 Titus, Erastus, Jr.  
 Toel, William  
 Tonnelé, John L.  
 Tousey, William  
 Townsend, David C.  
 Townsend, J. Henry  
 Tracy, J. Evarts  
 Travis, John C.  
 Trevor, H. G.  
 Trowbridge, Frederick K.  
 Tuckerman, Alfred  
 Tuckerman, Miss Emily  
 Tuckerman, Paul  
 Turner, Charles Y.  
 Turnure, George E.  
 Tuttle, G. M., M. D.  
 Twombly, H. McK.  
 Ullmann, E. S.  
 Ulmann, Rev. Aug.  
 Ulmann, Ludwig  
 Untermyer, Isaac  
 Valentine, Mrs. Lawson  
 Valentine, W. A., M. D.  
 Valk, David W.  
 Van Brunt, Jeremiah R.  
 Van Emburgh, D. B.  
 Van Horne, John G.  
 Van Ingen, Edward H.  
 Van Nest, Mrs. Alex. T.  
 Van Norden, Theo. L.  
 Van Norden, Warner  
 Van Norden, Warner M.  
 Van Winkle, Edgar B.  
 Veit, Richard C.  
 Vermeule, John D.  
 Villard, Mrs. Henry  
 Vœlker, John P.  
 Vogel, Herman  
 Vogel, H. G.  
 Vogelstein, L.  
 von Hagen, H. J., Ph. D.  
 Von Zedlitz,  
     Mrs. Anna M.  
 Voss, F. G.  
 Vredenburg,  
     Hon. W. H.  
 Wagner, Frederic C.  
 Wagner, John  
 Wake, Charles  
 Wakeman, Stephen H.  
 Waldo, R. V.  
 Wales, Edward H.  
 Walker, William I.  
 Wall, Mrs. Francis H.  
 Wallace, Franklin R.  
 Wallach, Leopold  
 Walter, W. I.  
 Warburg, F. M.  
 Warburg, Paul M.  
 Ward, Artemas  
 Ward, Henry C.  
 Ward, John Gilbert  
 Wardwell, Wm. T.  
 Warner, John De Witt  
 Warner, Lucien C.  
 Warren, John Hobart  
 Warren, Samuel D.  
 Washburn, John H.  
 Wassermann, E.  
 Watson, A. W.  
 Watson, Miss Emily A.  
 Watson, Rev. J. Henry  
 Watt, Thomas L.  
 Weatherbee, Mrs. E. H.  
 Weber, Dr. Leonard  
 Weed, Geo. E.  
 Wehrhane, Chas.  
 Wehrum, Chas. C.  
 Weidenfeld, Camille  
 Weil, L. J.  
 Weir, Col. John  
 Weiss, W. F.  
 Wellington, A. H.  
 Wells, Oliver J.

- Welsh, Florence M.  
Welsh, S. Charles  
Wendell, Gordon  
Wenman, James F.  
Wentz, James G.  
Wessels, A.  
Westcott, Robert E.  
Westinghouse, George  
Westermayr, R. J.  
Weston, Edward  
Westover, Myron F.  
Wetherill, Mrs. J. B.  
Wetmore, Dr. J. McE.  
Whearty, Daniel C.  
Wheeler, Herbert L.  
Wheelock, G. G., M.D.  
White, Alain C.  
White, Miss Caroline  
White, Horace  
White, John Jay, Jr.  
White, Leonard D.  
White, W. H., Jr.  
Whitehouse, J. Henry  
Whiting, Giles  
Whitman, Clarence  
Whitman, E. S.  
Whitney, Edward F.  
Whitney, Horace P.  
Whitney, H. P.  
Whitson, G. S.  
Wicke, William  
Wickes, Edward A.  
Wickham, Delos O.  
Wilbur, M. T.  
Wilkins, Frederick H.  
Wilkins, H. A. J.  
Willcox, David  
Williams, Blair S.  
Williams, John  
Williams, Mrs. Percy H.  
Williams, Richard H.  
Willis, W. P.  
Wills, Charles T.  
Wills, Wm.  
Wilson, George  
Wilson, Geo. T.  
Wilson, Henry R.  
Wilson, M. Orme  
Winckelbach, L. O.  
Wing, John D.  
Winthrop, Egerton L.  
Winthrop, Miss Marie  
Wisner, Percy  
Witherbee, Frank S.  
Woerz, Ernest G. W.  
Woerz, F. W.  
Wolf, I. S.  
Wolfe, Mrs. Anzonetta B  
Wolff, Emil  
Wolff, Lewis S.  
Wood, Mrs. Cynthia A.  
Wood, Henry R.  
Wood, Mrs. John D.  
Wood, Orrin S.  
Wood, Dr. Wm. B.  
Wood, Wm. C.  
Woodward, James T.  
Woodward, Mrs. Wm. Jr.  
Wormser, Isidor  
Worthington, Mrs. J. A. H.  
Wray, Albert A.  
Wray, Miss Julia  
Wright, Mrs. J. Hood  
Wurts-Dundas, Ralph  
Wurzburger, A.  
Yeaman, George H.  
Young, Edward L.  
Young, E. F. C.  
Young, Richard N.  
Young, Thomas S.  
Zabriskie, Andrew C.  
Zabriskie, George  
Zachry, J. G.  
Ziegler, Henry  
Zinsser, Aug.  
Zinsser, Wm. H.  
Zoller, Charles  
Zollikofer, O. F.









THE MINERAL HALL.





SULPHUR FROM CIACCIANI, ITALY.  
A specimen in the Bement Collection of Minerals presented by J. P. Morgan, Esq.

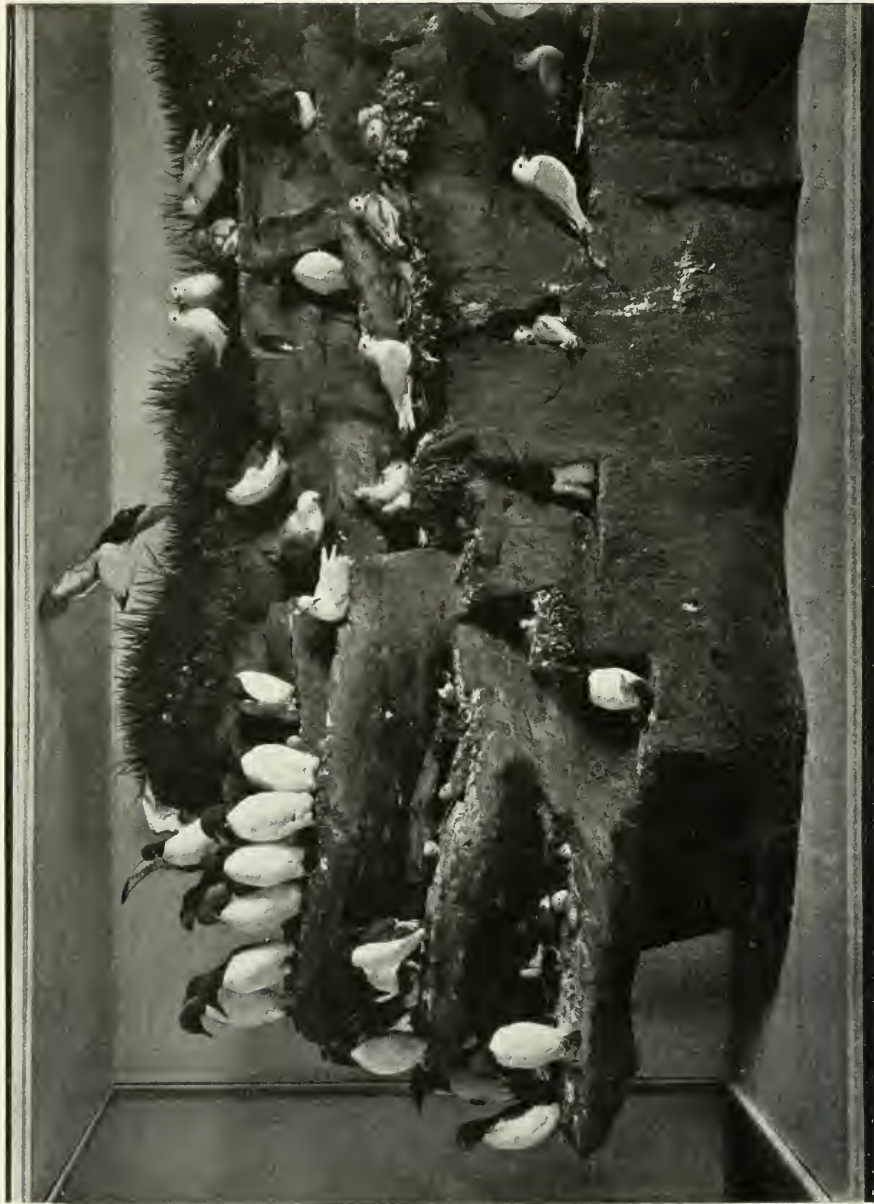




UINTACRINUS SOCIALIS Grinnell. FOSSIL CRINOID FROM KANSAS.

Slab five feet four inches long and three feet two inches wide.  
Gift from Frank Springer, Esq.

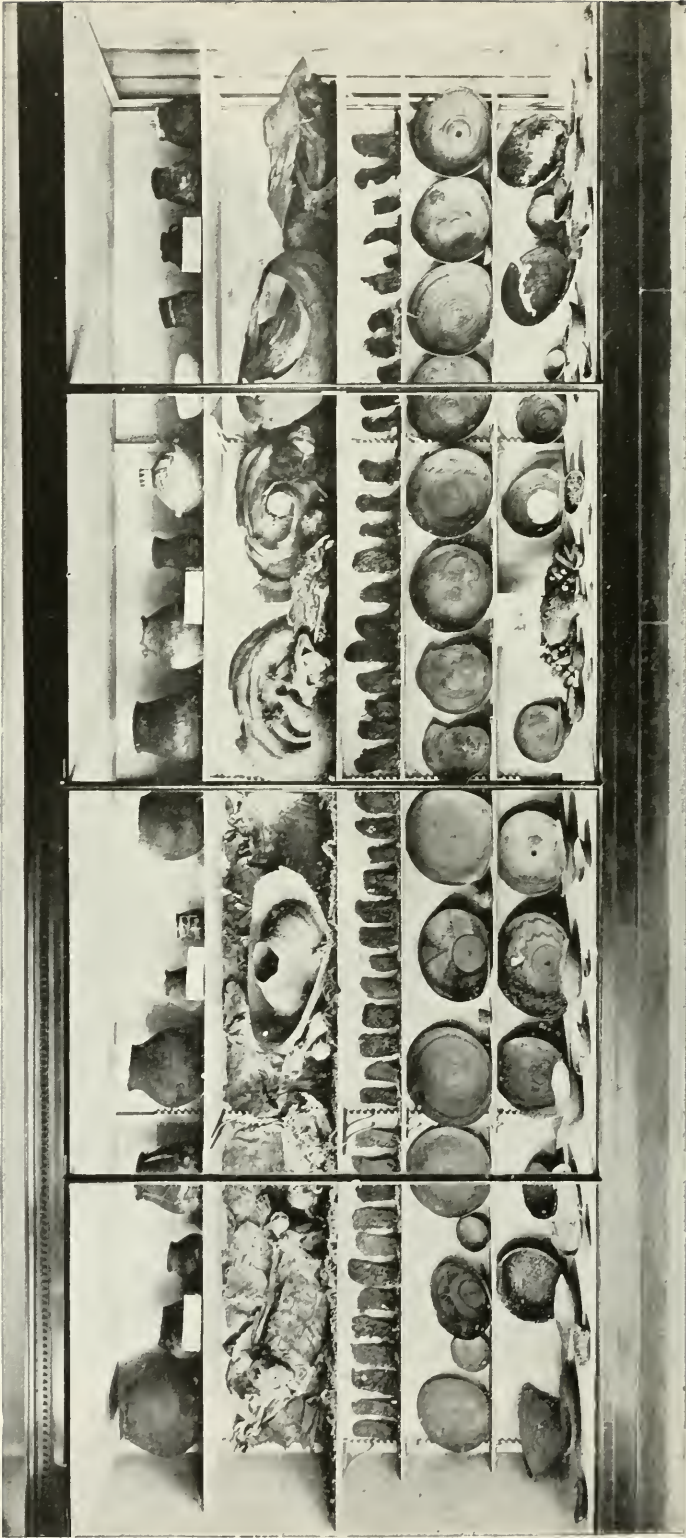




LEFT HALF OF THE BIRD ROCK GROUP.







CASE OF PREHISTORIC BASKETS AND OTHER OBJECTS FROM SOUTHEASTERN UTAH.  
Hyde Expedition.



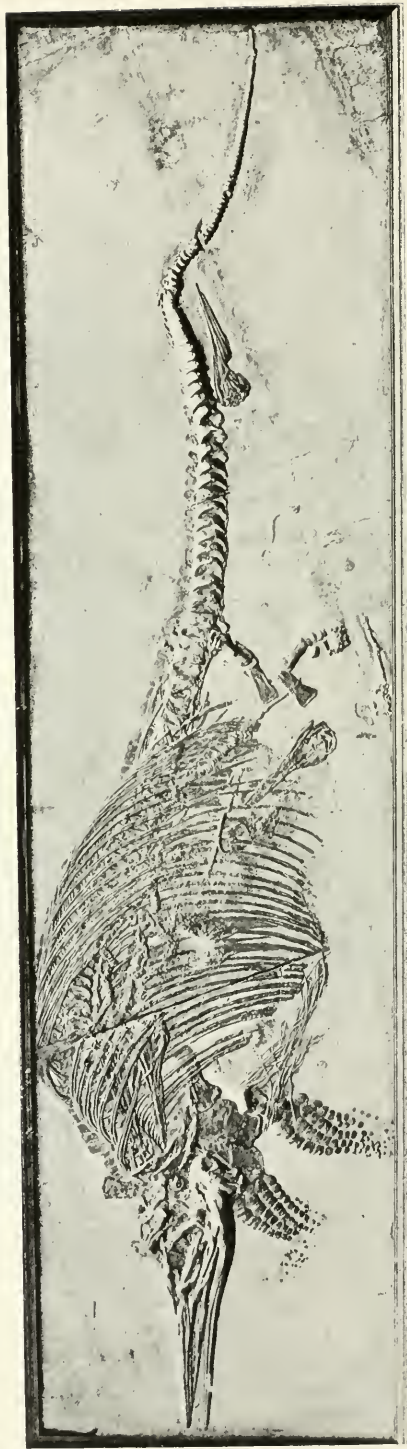


Upper Side.

Under Side.

PAPILIO HOMERUS. Natural size.  
A Jamaican Butterfly in the Hoffmann collection.

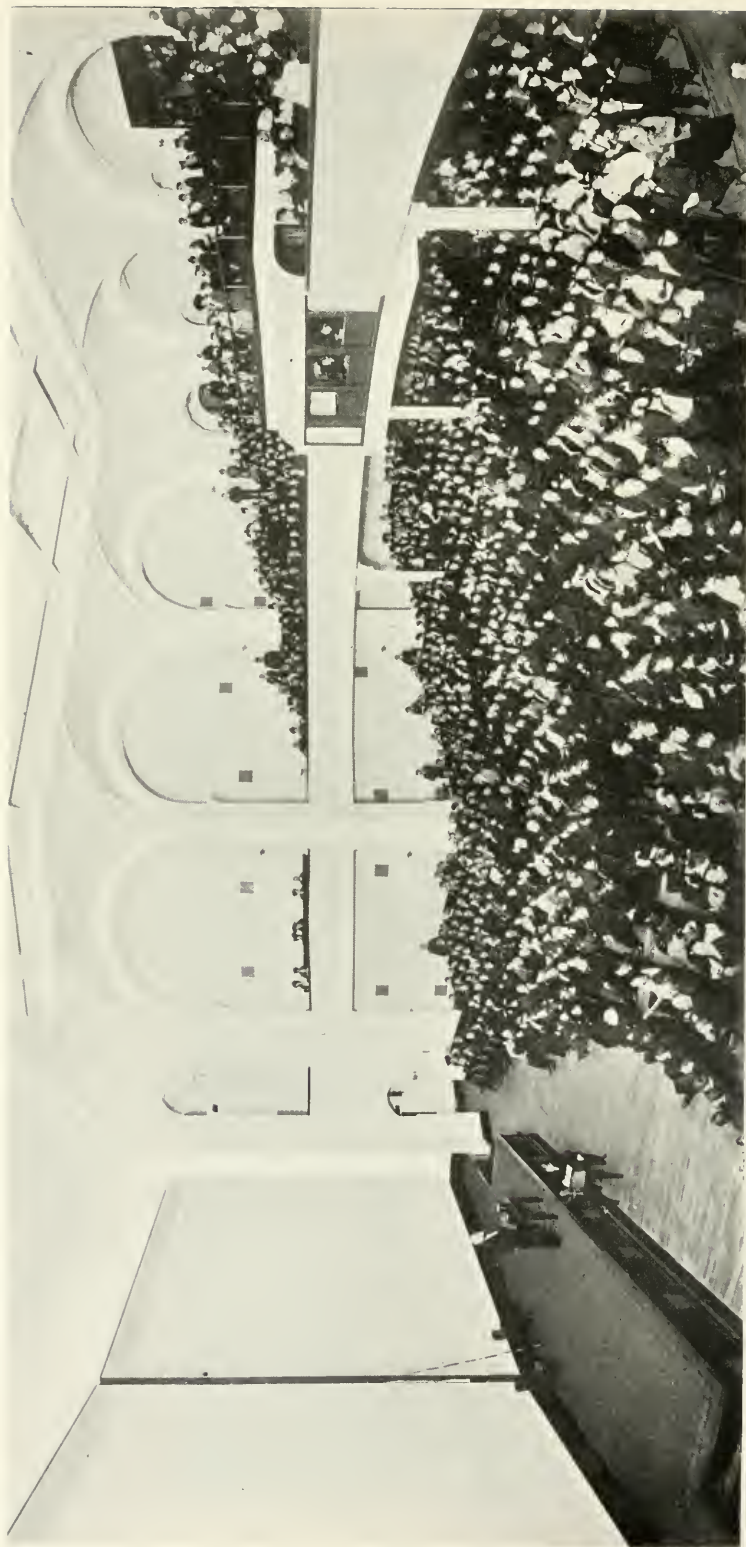




7  
ICHTHYOSAURUS QUADRISCISSUS Quenstedt. THE GREAT FISH-LIZARD CONTAINING YOUNG ONES.

Received by exchange with the Royal Museum, Stuttgart, Germany.





THE NEW AUDITORIUM.

Showing an audience at one of the Lectures in the Members' Course, 1902.





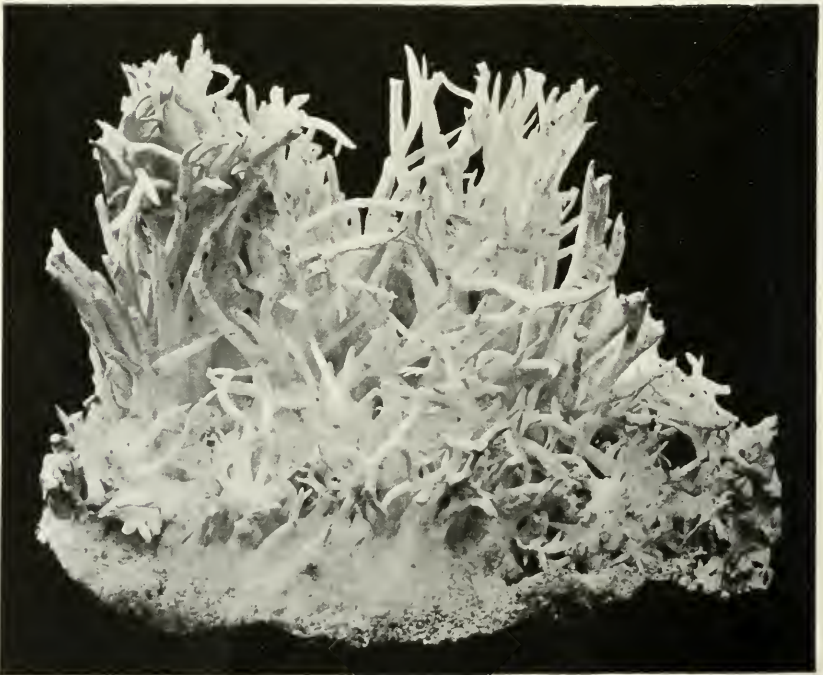


BURDEN BASKETS AND OTHER FORMS, GRAND GULCH, UTAH.  
Hyde Expedition.





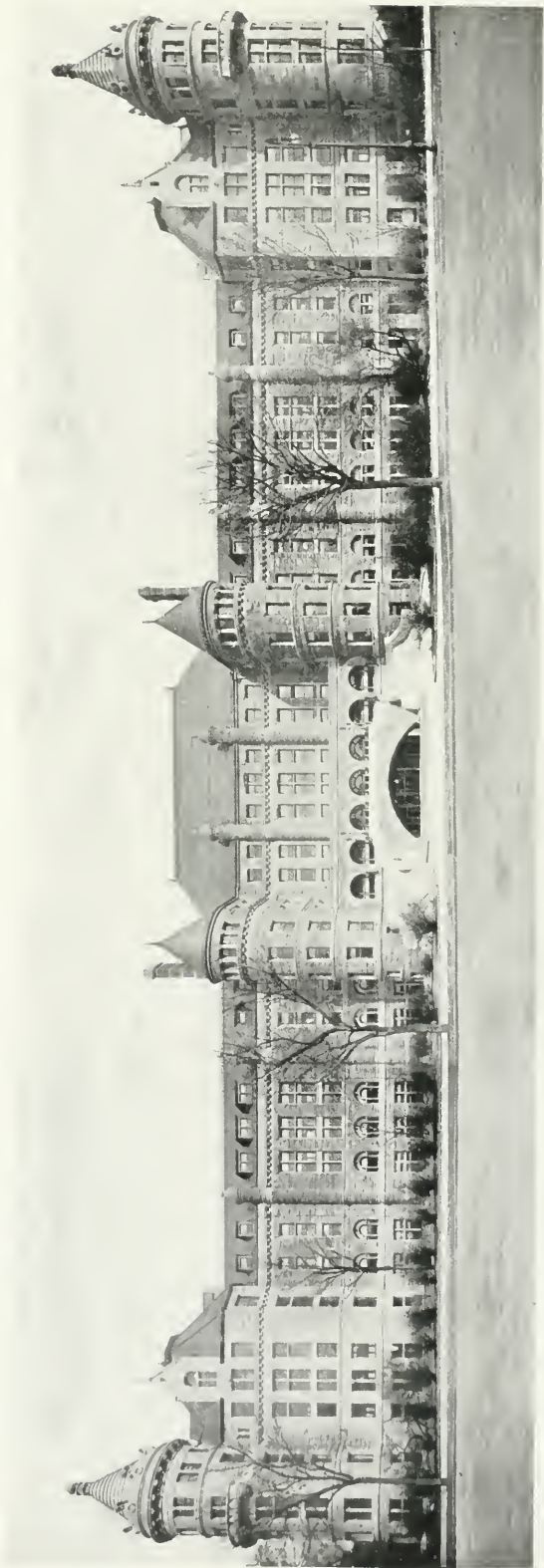
MALACHITE FROM BISBEE, ARIZONA.



ARAGONITE ("FLOS-FERRI") FROM STEIERMARK, AUSTRIA.

Specimens in the Bement Collection of Minerals presented by J. P. Morgan, Esq.





AMERICAN MUSEUM OF NATURAL HISTORY



CENTRAL PORTION OF THE GROUP OF BEACH-BREEDING BIRDS OF COKE'S ISLAND







SCENES FROM THE PTARMIGAN GROUP





SKULL AND TUSKS OF THE IMPERIAL MAMMOTH





THE SECTION OF THE "BIG TREE" IN THE MUSEUM

- The uppermost series of cards represents events in General History ;  
The light cards immediately below represent changes of thought in the Philosophy of Biology ;  
The small black cards mark the succession of centuries in the life of the tree ;  
Of the cards below the black,  
The first row indicates the advance of General Biology ;  
The second, that of Comparative Anatomy ;  
The third (one card), the discoveries of Palaeontology ;  
The fourth, the progress of Embryology.







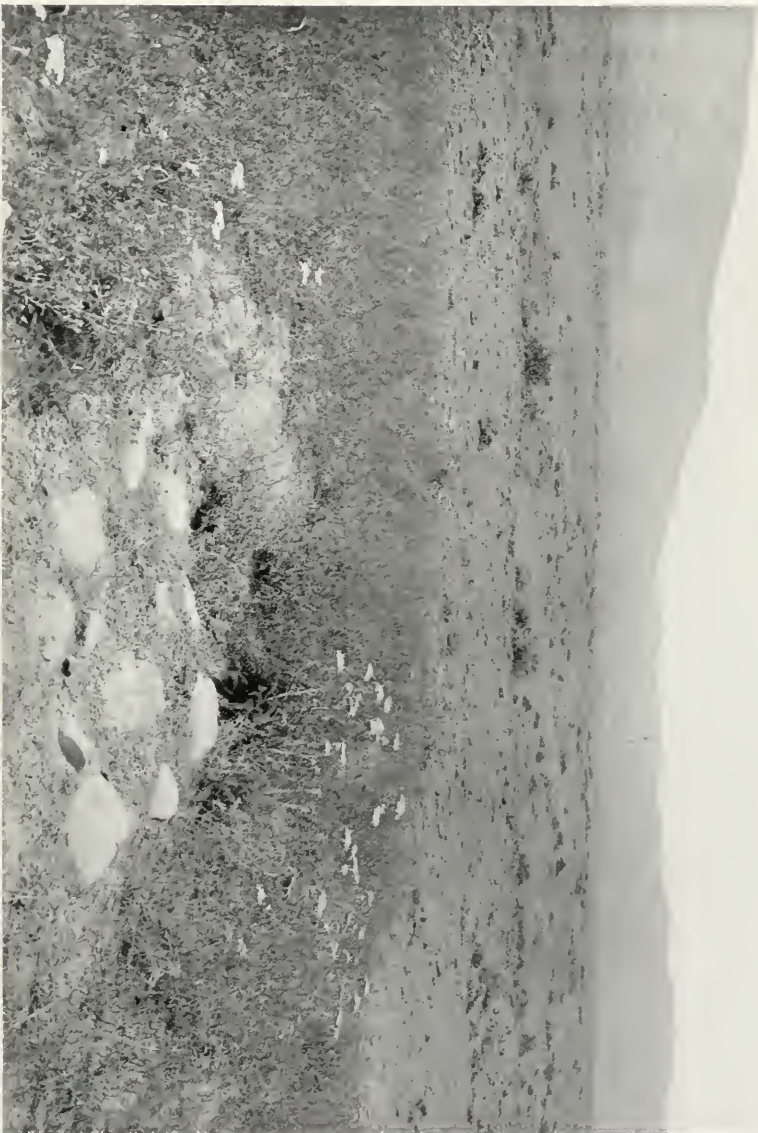
THE MUSEUM ZOOLOGICAL EXPEDITION IN MEXICO—ESCUINAPA, MEXICO  
Mr. J. H. Batty returning from a collecting trip. Some of the animals seen on the donkey are now being mounted at the Museum.





THE MUSEUM GEOLOGICAL EXPEDITION—MARTINIQUE  
The picture shows the "Spine" of Mont Pelé, a pointed mass of rock which was thrust upward in 1902 from the crater to an elevation of over 1,100 feet, and then in a few weeks disintegrated and fell apart.





THE JESUP ARCHAEOLOGICAL EXPEDITION—COLUMBIA RIVER, WASHINGTON  
A characteristic view in the valley of the Yakima. In the distance are the foothills of the Cascade range. The loose stones in the foreground mark an Indian grave.







THE JESUP NORTH PACIFIC EXPEDITION—SIBERIA  
The illustration shows the method of transporting the Yakut collection across eastern Siberia. This collection is now on exhibition at the Museum.



THE WILLIAM C. WHITNEY EXPEDITION—SOUTH DAKOTA  
The light-colored rock in the center is Upper Miocene. It was in an outcrop a little to the right that the party found a new three-toed horse (Neohippidium whitneyi). The fossil skeleton is now mounted and on exhibition.







THE MUSEUM PALEONTOLOGICAL EXPEDITION—BAD LANDS OF WYOMING

The view shows the camp, and in the distance the Eocene rocks, horizontally stratified. Fossils may be found in these rocks almost anywhere, from the valley to the crest.





THE ANDREW J. STONE ZOOLOGICAL EXPEDITION—ARCTIC AMERICA  
The view shows the method of transporting the specimens, and the characteristic vegetation of the north.





THE HYDE ARCHAEOLOGICAL EXPEDITION—NEW MEXICO  
The workmen are Navajo Indians. The rectangular area at the right is a portion of Pueblo Bonito.







THE HOFFMAN ENTOMOLOGICAL EXPEDITION—BLACK MOUNTAINS OF NORTH CAROLINA

The view shows the dome of Mt. Mitchell (6710 ft.), the fir balsams with their branches bent by the prevailing winds, and the rhododendrons a mass of flowers.







THE FLAMINGO GROUP.

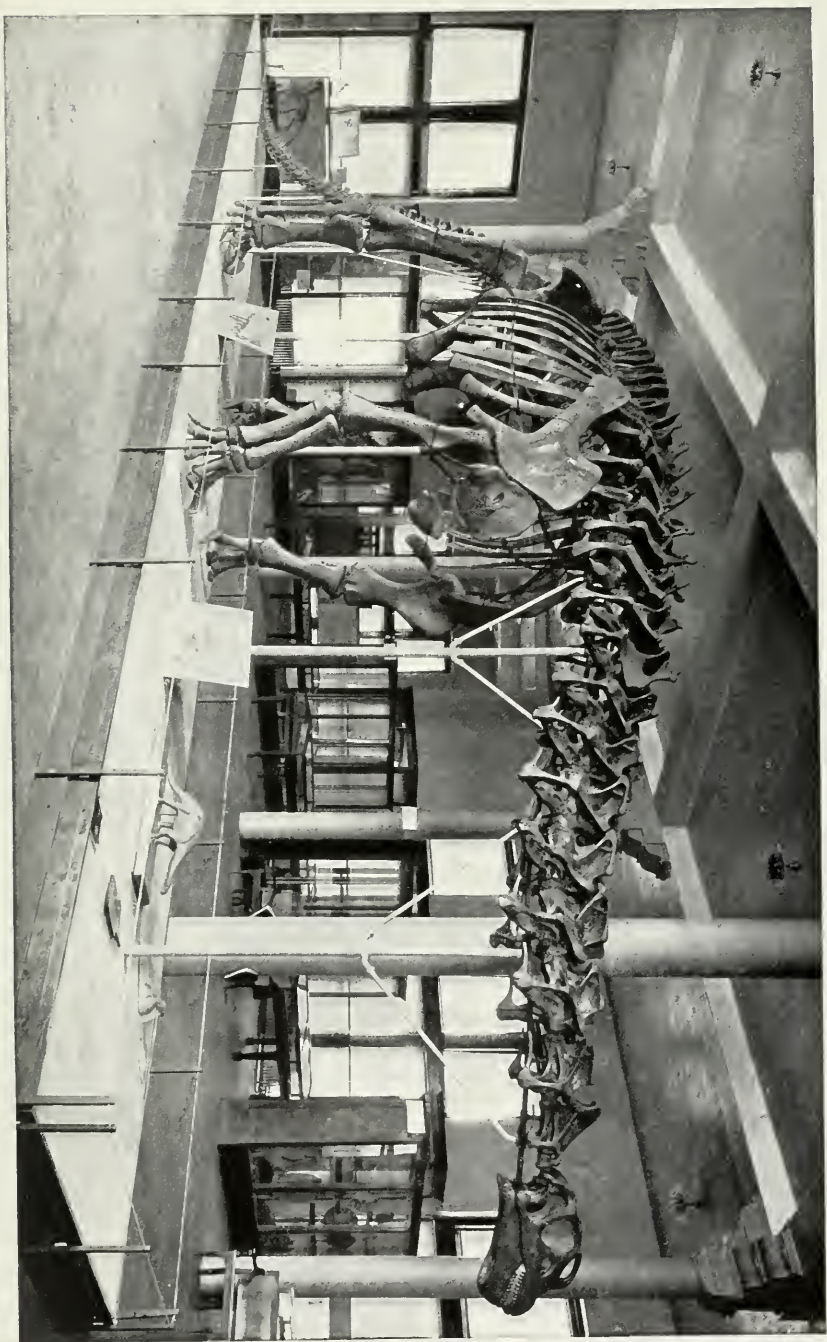
Background painted by Charles J. Hittell (landscape) and Louis Agassiz Fuertes (birds). Birds mounted by Herbert Lang.



THE ALASKA PENINSULA BEAR. STONE EXPEDITION.

Length of specimen in the flesh about seven and one-half feet; weight, 1500 pounds.





BRONTOSAURUS SKELETON IN THE DINOSAUR HALL.  
Mounted under the direction of Professor H. F. Osborn by A. Hermann.





CEREMONIAL HOUSE USED BY WHALERS, NOOTKA, VANCOUVER ISLAND.  
This Material is now in the Museum.



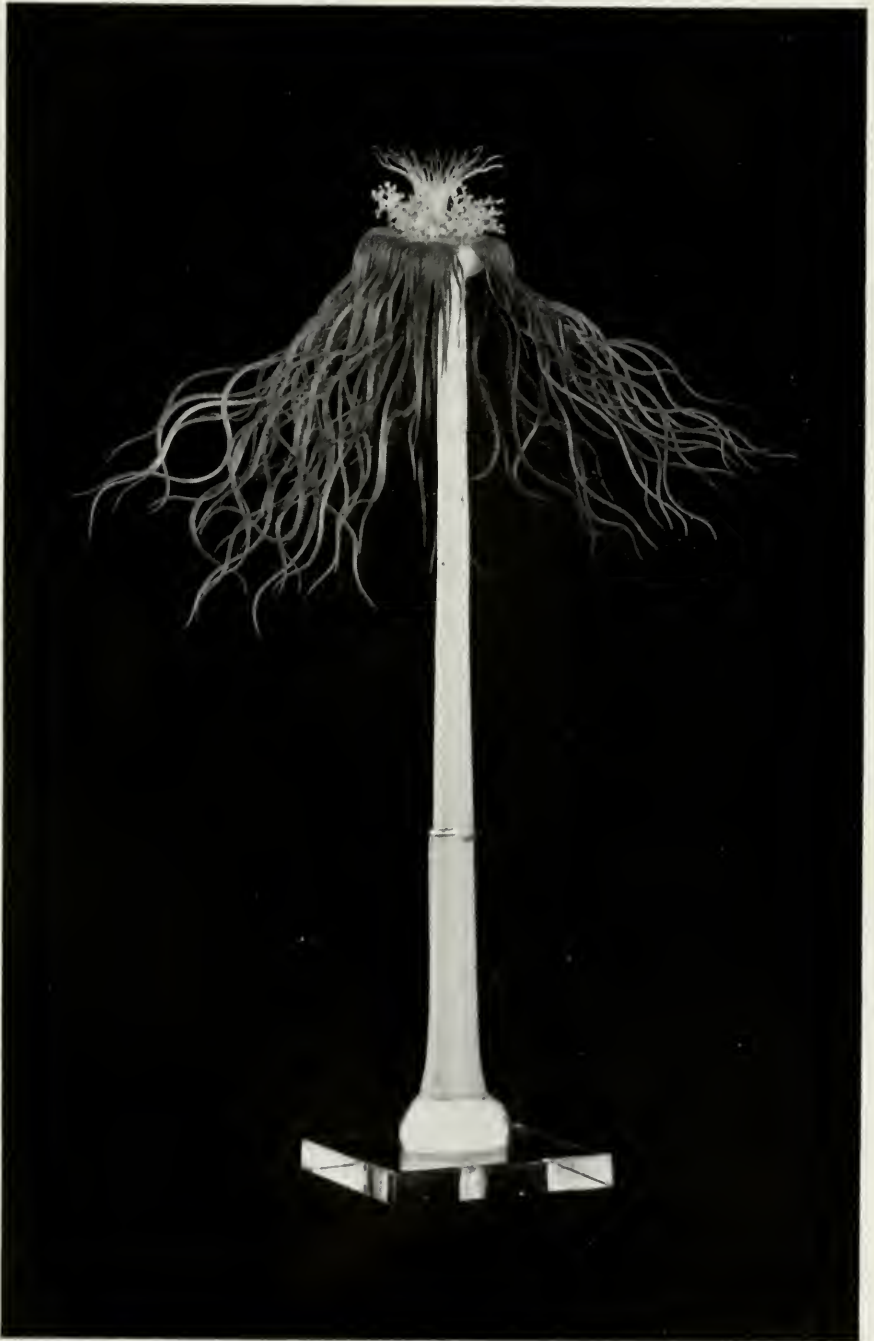




AINIGHTO, OR THE TENT.

The largest of the Cape York meteorites. Removal from the Cob Dock, Brooklyn Navy Yard.  
Now at the American Museum.





GIANT HYDROID OF THE JAPANESE SEAS.  
(Twenty-eight inches in height.) Model in glass and wax prepared at the Museum.





THE SAN JOAQUIN VALLEY GROUP.

Background painted by Charles J. Hittell (landscape) and Louis Agassiz Fuertes (birds). Birds mounted by H. S. Denslow.





GIANT SEA-ANEMONE OF THE GREAT BARRIER REEF OFF AUSTRALIA.  
(Fourteen inches in diameter.) Model in glass and wax prepared at the Museum.



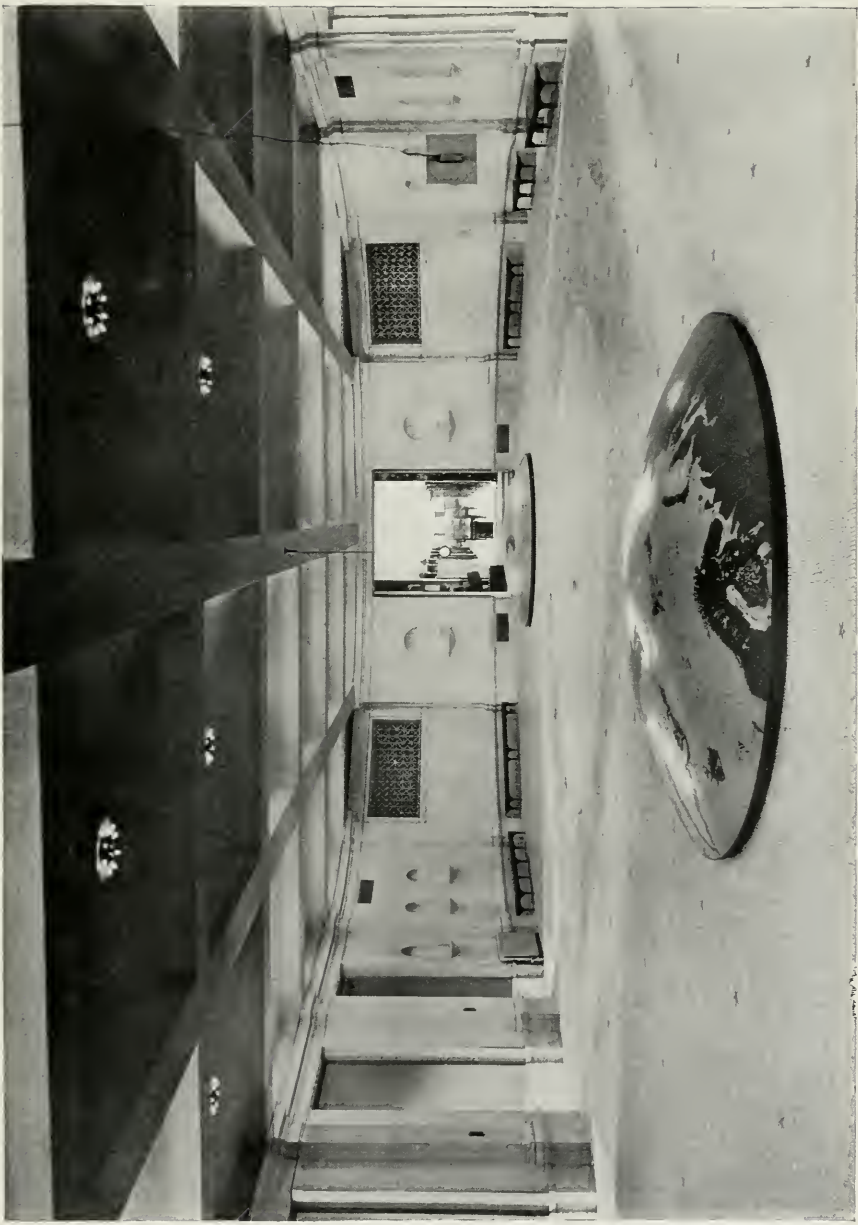






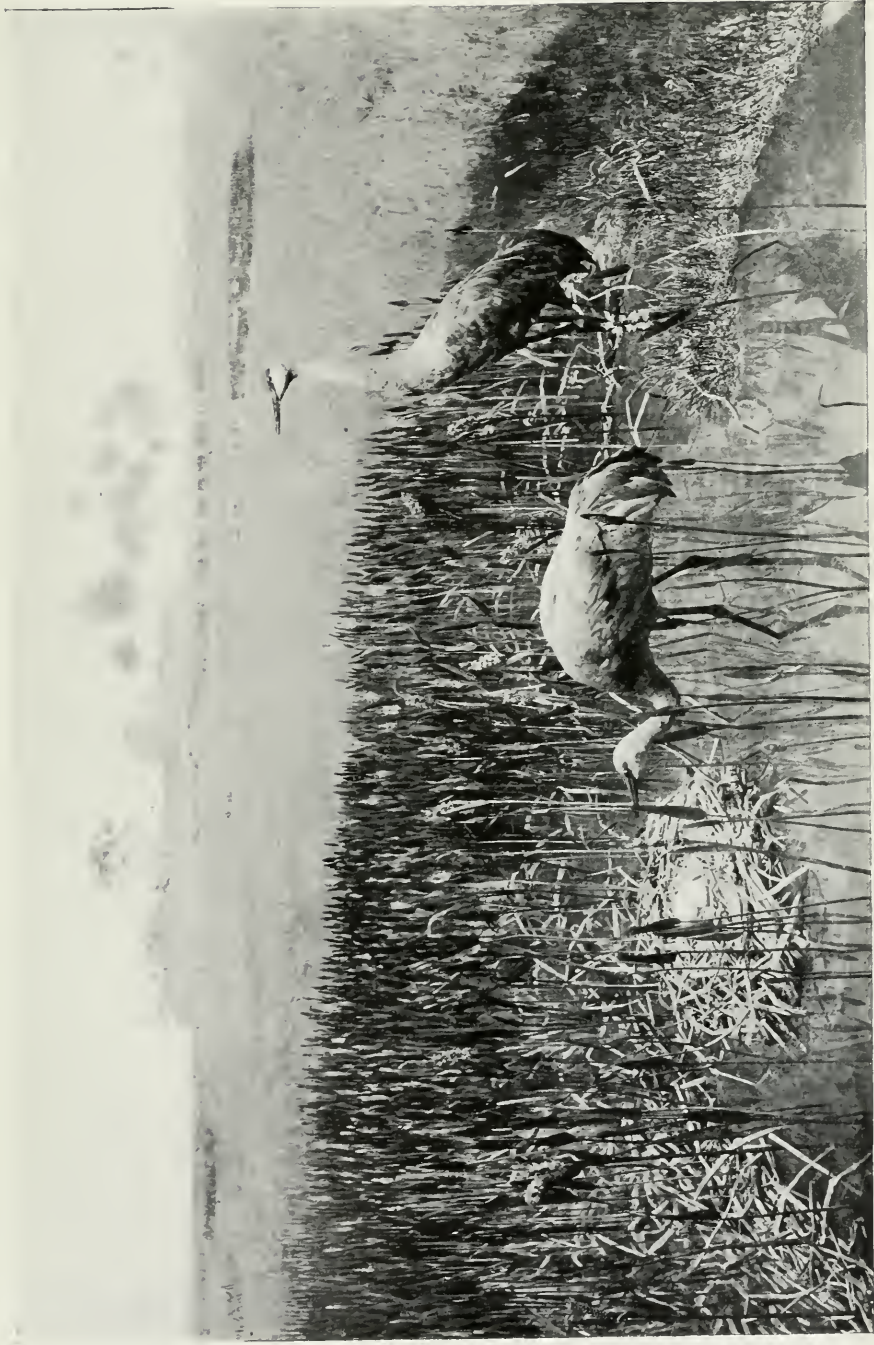
**POLAR BEAR.**

A specimen of the Polar Bear Group which is being prepared at the Museum. This bear was secured by Commander Peary, at Payer Harbor, and was mounted by James L. Clark.



THE NEW FOYER, OR ENTRANCE HALL (looking west).





THE SANDHILL CRANE GROUP.

The funds for collecting and mounting this group were provided by friends of the Museum who have contributed to the North Pacific Ornithological Fund. Background painted by Bruce Hosfall. Birds mounted by Herbert Lang.





THE GEM HALL.  
New installation of gems and precious stones,



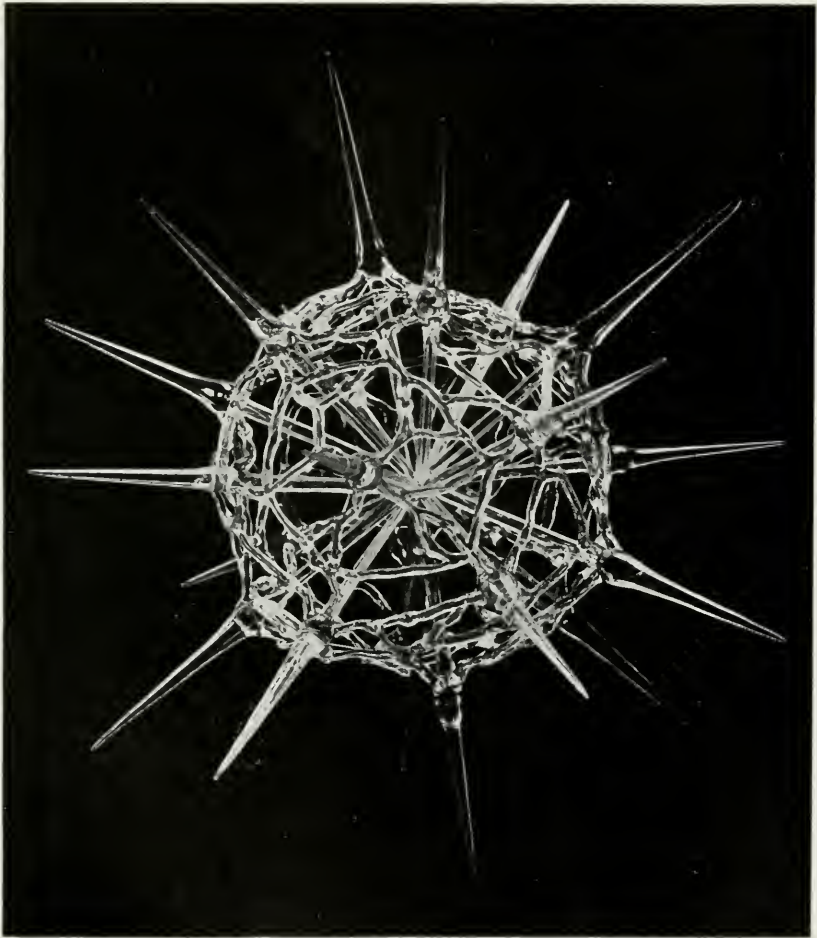




CRESTED CASSIQUE GROUP.

The funds for collecting and mounting this group were provided by friends of the Museum who have contributed to the North American Ornithological Fund.  
Birds mounted by Herbert Lang. Group prepared by J. D. Figgins.





A RADIOLARIAN.

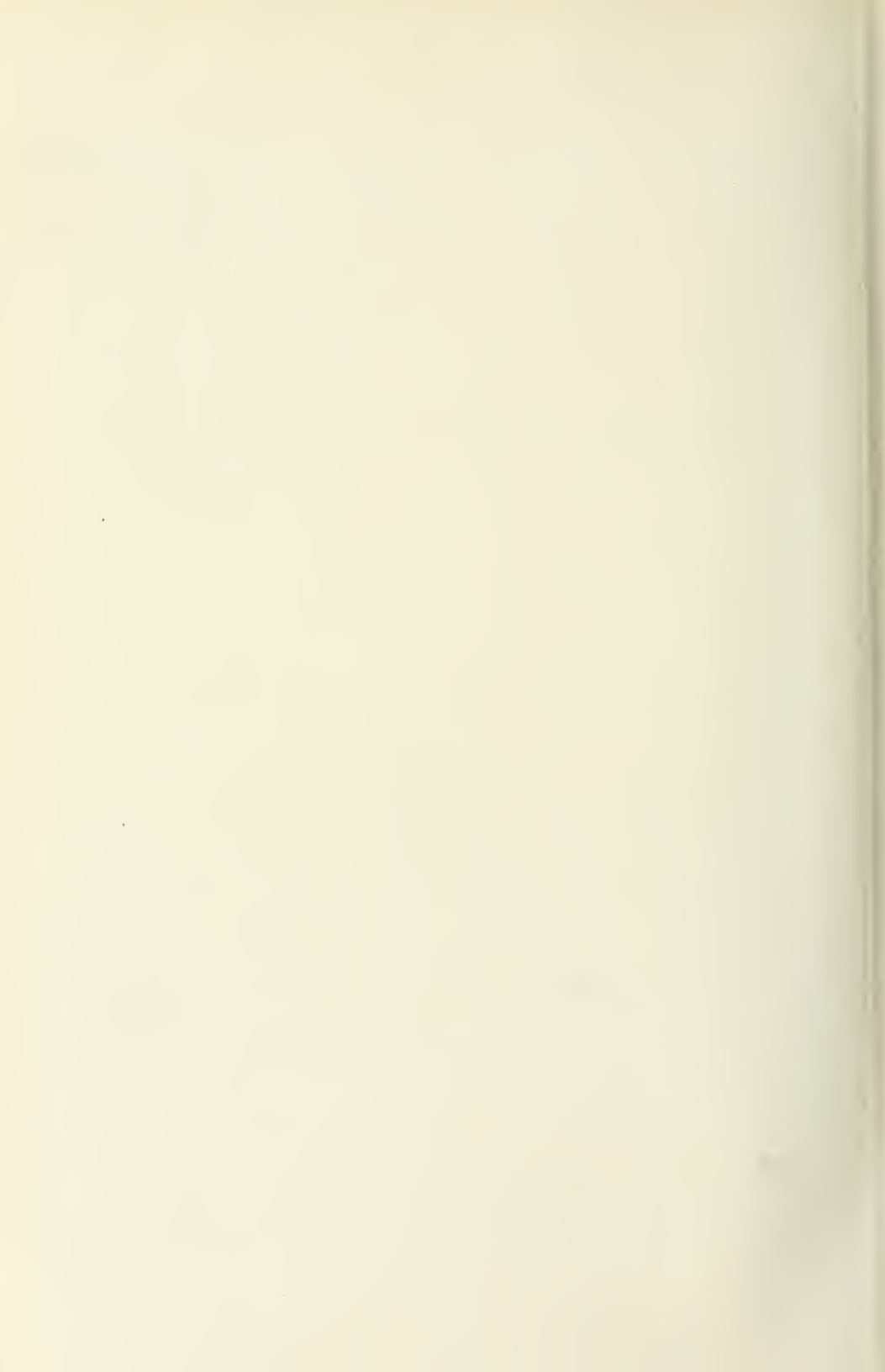
Model in glass representing siliceous skeleton of a radiolarian, a minute animal found in the tropical Atlantic. Prepared at the Museum.





MEXICAN IGUANA.

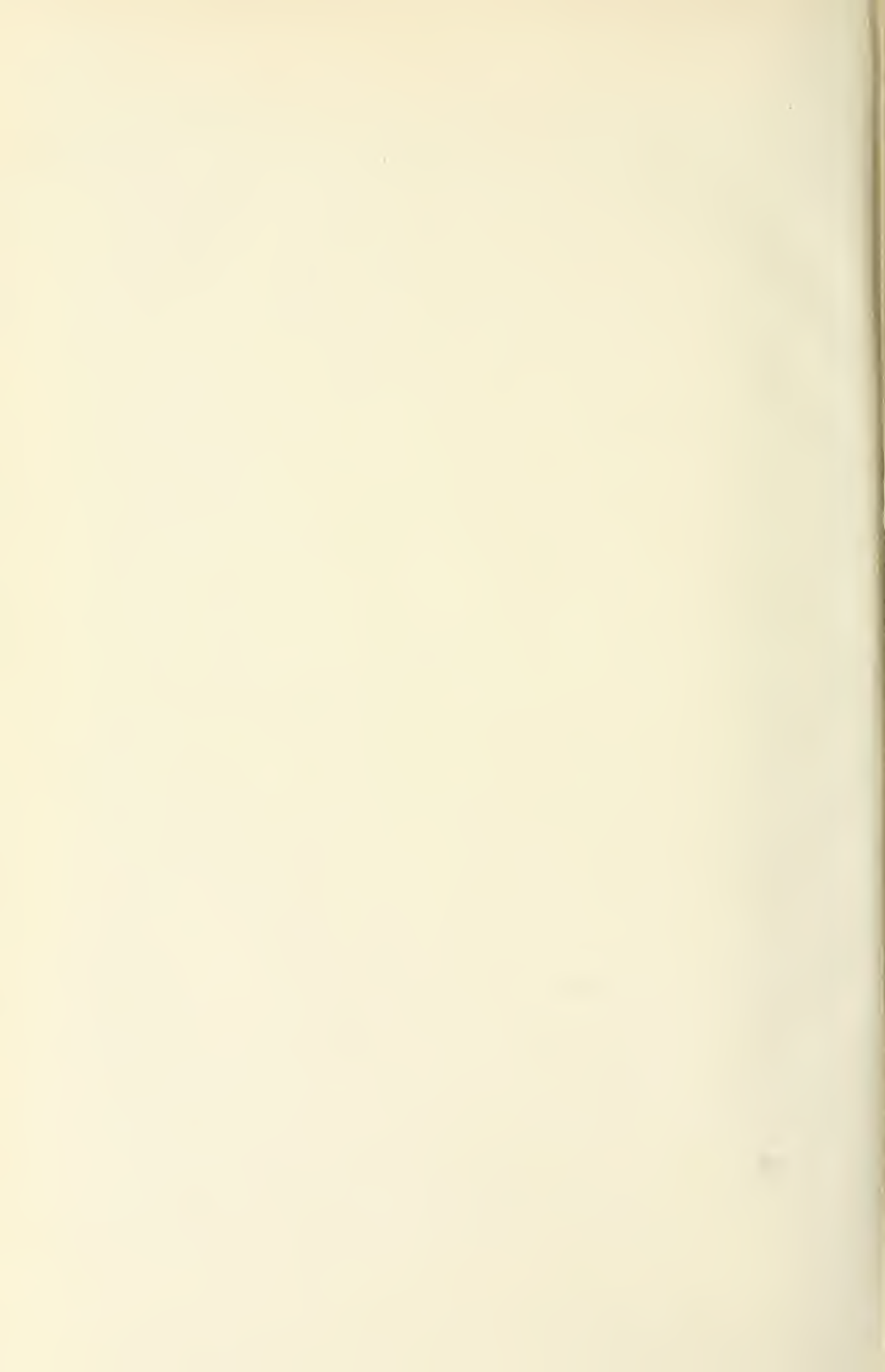
Large crested tropical lizard, often growing to a length of five or six feet. Mounted at the Museum.





CORMORANT GROUP.

The funds for collecting and mounting this group were provided by friends of the Museum who have contributed to the North American Ornithological Fund. Background painted by Charles J. Hittell. Birds mounted by Herbert Lang.

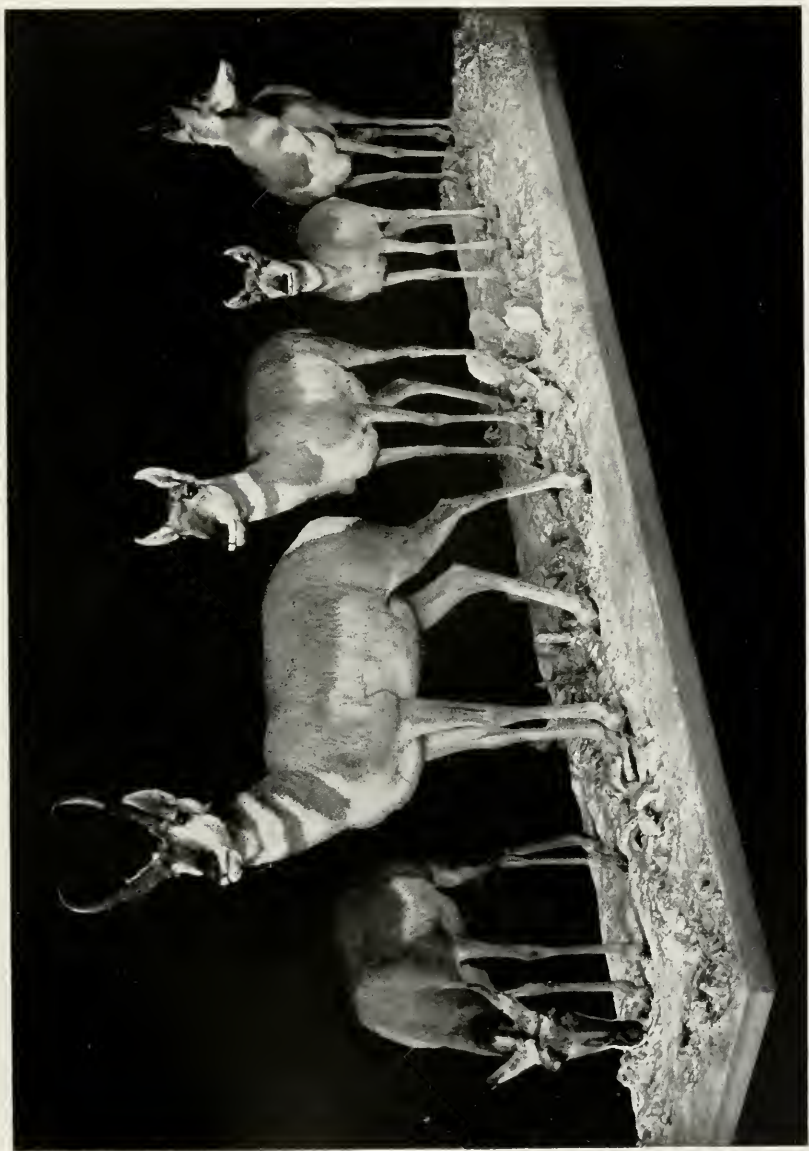




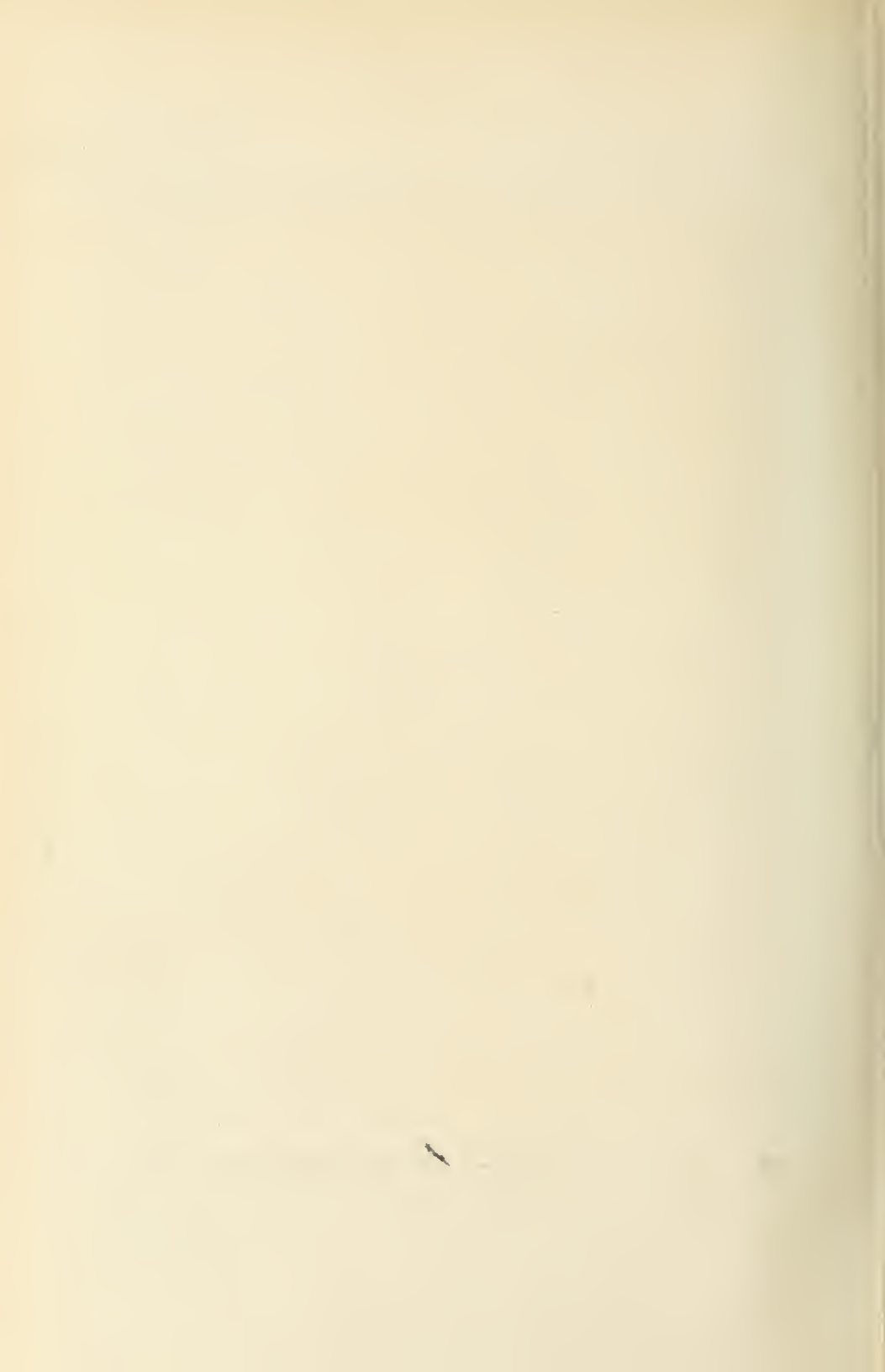


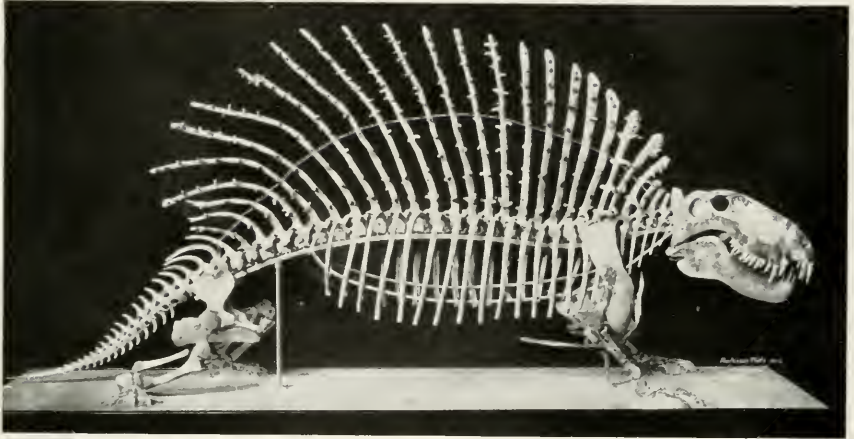


THE ANHINGA GROUP—Completed December, 1906.  
(North American Ornithology Fund.)



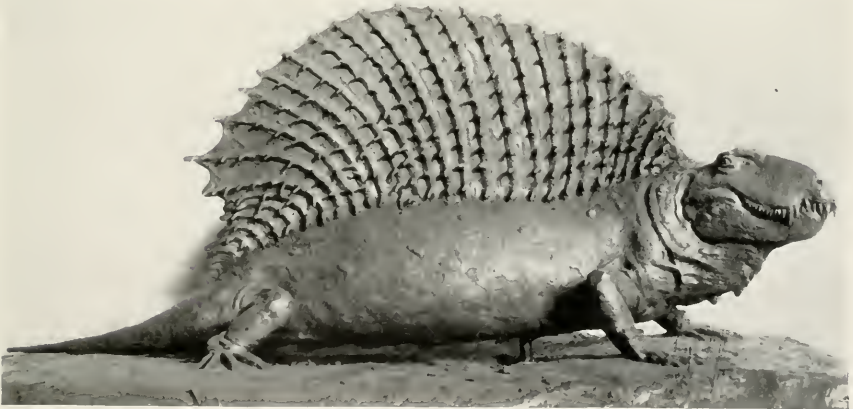
PRONGHORN, OR AMERICAN ANTELOPE. (Completed April, 1906.)





THE SKELETON OF NAOSAURUS. (Cope Collection.)

A great flesh-eating lizird, eight feet long, from the Permian beds of Texas.  
Mounted at the American Museum in 1906.



MODEL OF NAOSAURUS.

Executed under the direction of Professor H. F. Osborn by Charles R. Knight.





ESKIMO WOMAN FISHING THROUGH THE ICE.  
From group in Hall No. 108 (Ground Floor, North Wing.)

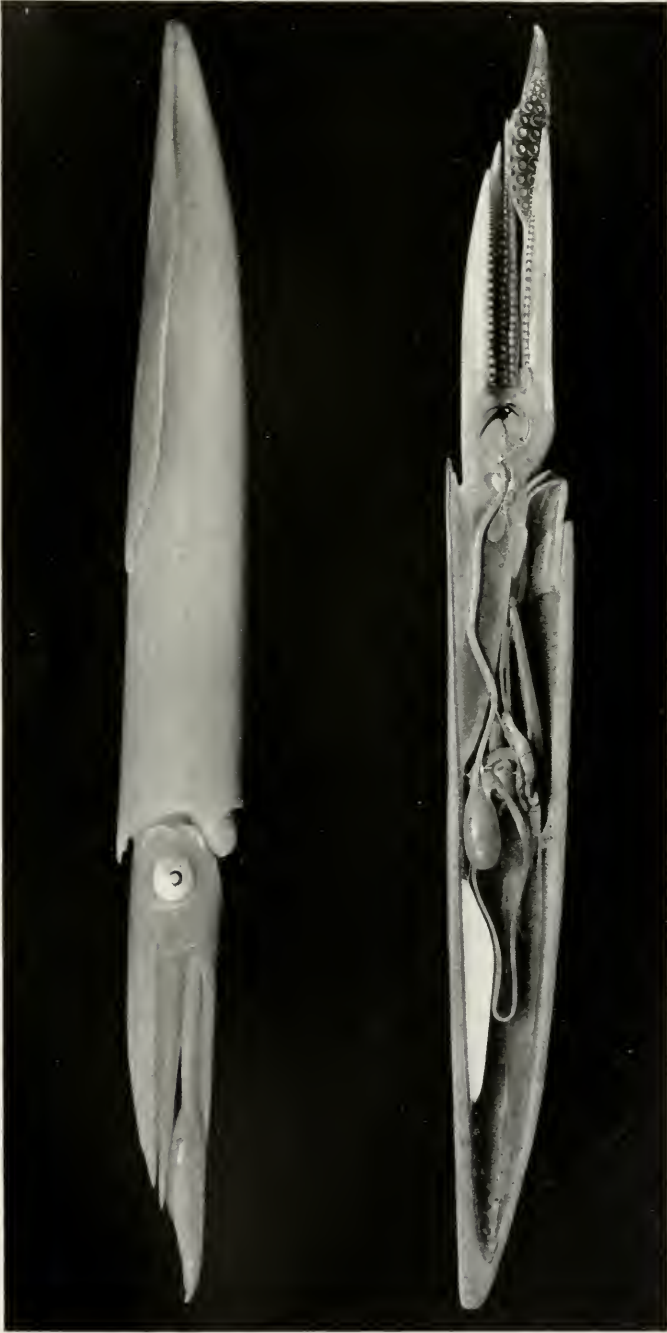






THE WILLAMETTE METEORITE. (Gift of Mrs. William E. Dodge.)  
Length 10 feet, height 6 feet 6 inches, weight 15.6 tons. Rear side, showing deep pits formed by oxidation.





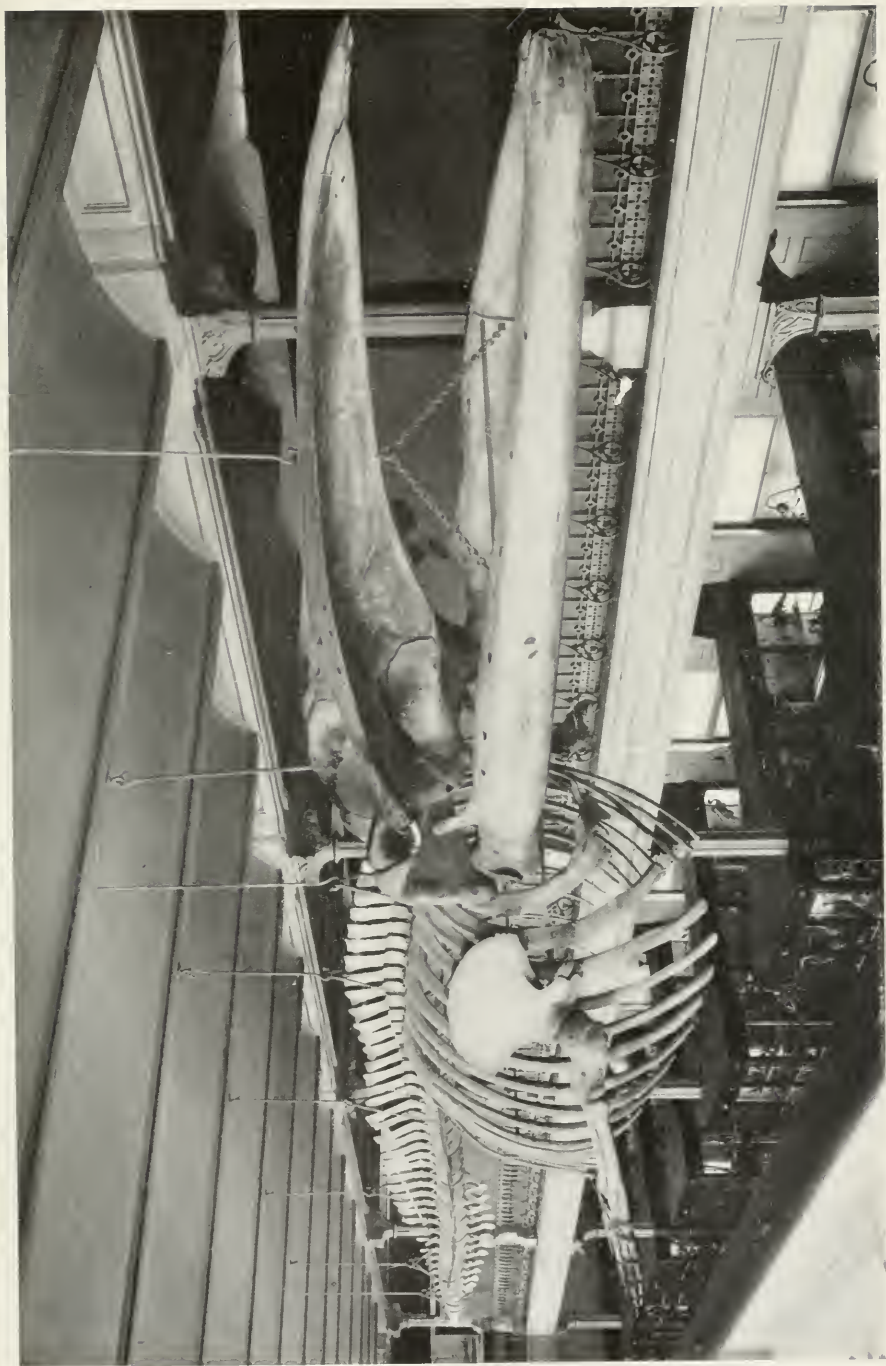
MODEL OF THE COMMON SQUID.  
Two views, showing external features and internal anatomy.





CACTUS-DESERT BIRD LIFE OF ARIZONA—Completed December, 1906.  
(North American Ornithology Fund.)





THE ATLANTIC FIN-BACK WHALE.  
Skeleton, 76 feet long—record size. Gift of George S. Bowdoin, Esq.







THE BROWN PELICAN GROUP—Completed December, 1966.  
(North American Ornithology Fund.)







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