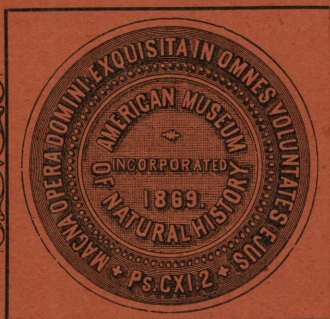


THE
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CENTRAL PARK, NEW YORK CITY.

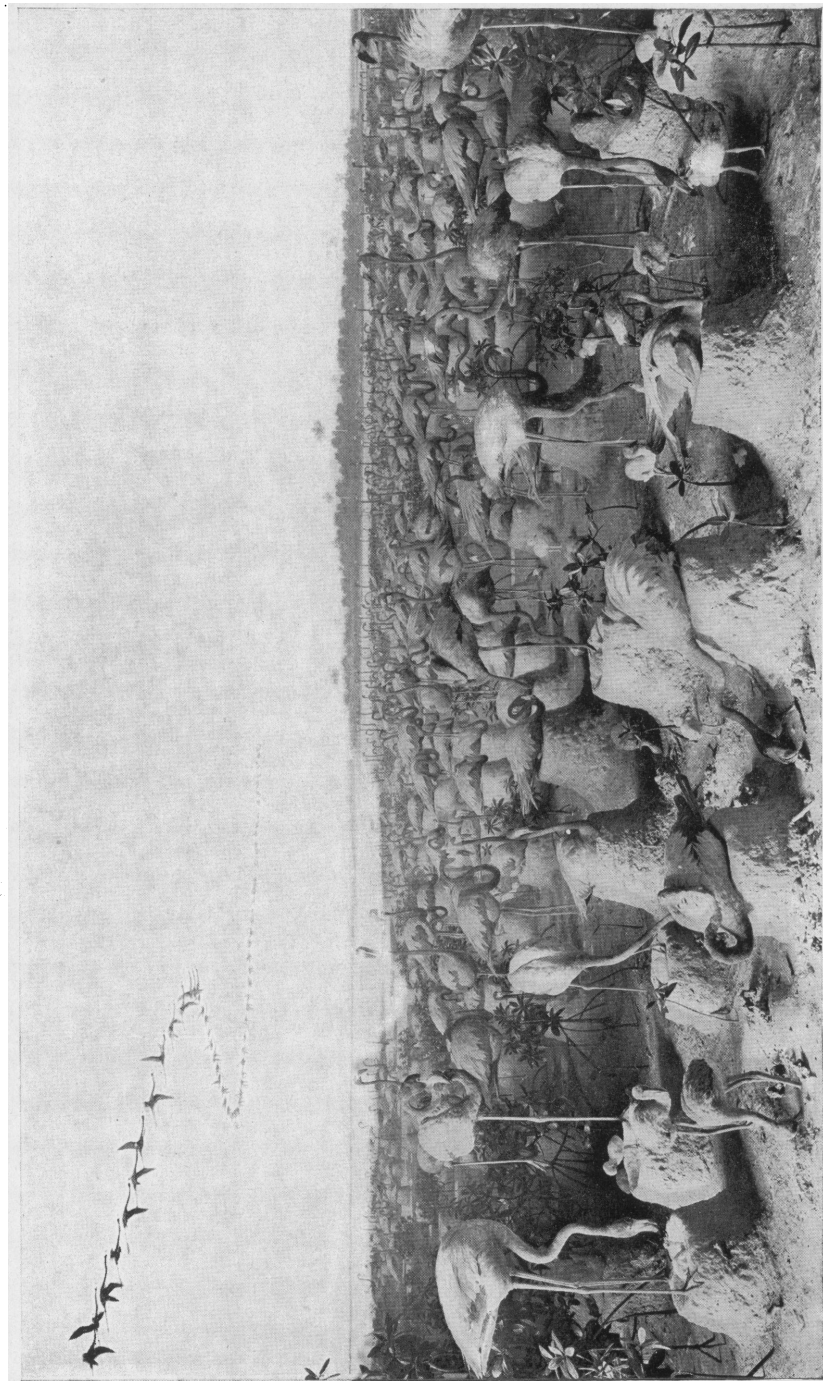
(77th Street and Central Park West.)



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.

PRINTED FOR THE MUSEUM.

THE
AMERICAN MUSEUM OF NATURAL HISTORY.



THE FLAMINGO GROUP.

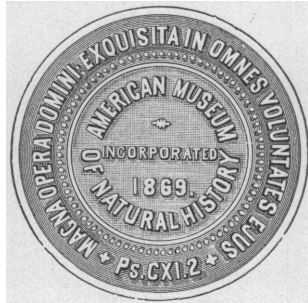
Background painted by Charles J. Hittell (landscape) and Louis Agassiz Fuertes (birds). Birds mounted by Herbert Lang.

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,
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CONSTITUTION, BY-LAWS AND LIST OF MEMBERS.

FOR THE YEAR 1904.



NEW YORK:
PRINTED FOR THE MUSEUM.

1905.



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CONTENTS

	PAGE
BOARD OF TRUSTEES.....	7
OFFICERS AND COMMITTEES.....	8
SCIENTIFIC STAFF.....	9
FORM OF BEQUEST.....	10
FINANCES.....	11
Permanent Endowment.....	11
Special Funds.....	11
City Maintenance Account.....	11
General Account.....	12
Endowment and Investment Account.....	12
BUILDING AND GROUNDS.....	12
MEMBERSHIP.....	12
New Members.....	13
Deceased Members.....	13
DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.....	14
DEPARTMENT OF MAMMALOGY AND ORNITHOLOGY.....	15
DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.....	16
DEPARTMENT OF ETHNOLOGY.....	19
DEPARTMENT OF ARCHÆOLOGY.....	21
DEPARTMENT OF ENTOMOLOGY.....	23
DEPARTMENT OF MINERALOGY AND CONCHOLOGY.....	24
DEPARTMENT OF INVERTEBRATE ZOÖLOGY.....	25
DEPARTMENT OF PHYSIOLOGY.....	28
DEPARTMENT OF PREPARATION AND INSTALLATION.....	29
DEPARTMENT OF BOOKS AND PUBLICATIONS.....	31
DEPARTMENT OF MAPS AND CHARTS.....	35
ATTENDANCE.....	36
ASSOCIATED SOCIETIES AND ORGANIZATIONS.....	36
TRANSPORTATION.....	37
LECTURES.....	37
FINANCIAL STATEMENTS.....	43

Contents.

	PAGE
ACCESSIONS.....	50
Geology and Invertebrate Palæontology.....	50
Mammalogy and Ornithology.....	51
Vertebrate Palæontology.....	54
Ethnology.....	55
Archæology.....	58
Entomology.....	59
Mineralogy.....	61
Conchology.....	64
Invertebrates.....	65
Reptiles and Batrachians.....	66
Fishes.....	67
Library.....	31
Maps and Charts.....	35
ACT OF INCORPORATION.....	69
CONTRACT WITH THE DEPARTMENT OF PARKS.....	71
CONSTITUTION.....	77
BY-LAWS.....	83
LEGISLATION.....	85
MEMBERSHIP LISTS.....	87
Patrons.....	87
Fellows.....	88
Life Members.....	89
Annual Members.....	95

BOARD OF TRUSTEES,

1905.

MORRIS K. JESUP.

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ARTHUR CURTISS JAMES.

CLEVELAND H. DODGE.

CORNELIUS C. CUYLER.

* Deceased.

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FOR 1905.

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Second Vice-President.

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Secretary and Assistant Treasurer.

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The President ex-officio.

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FOR 1905.

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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 Archæology.

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 Coelenterates.

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,*.....

.....

.....

THIRTY-SIXTH ANNUAL REPORT.

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

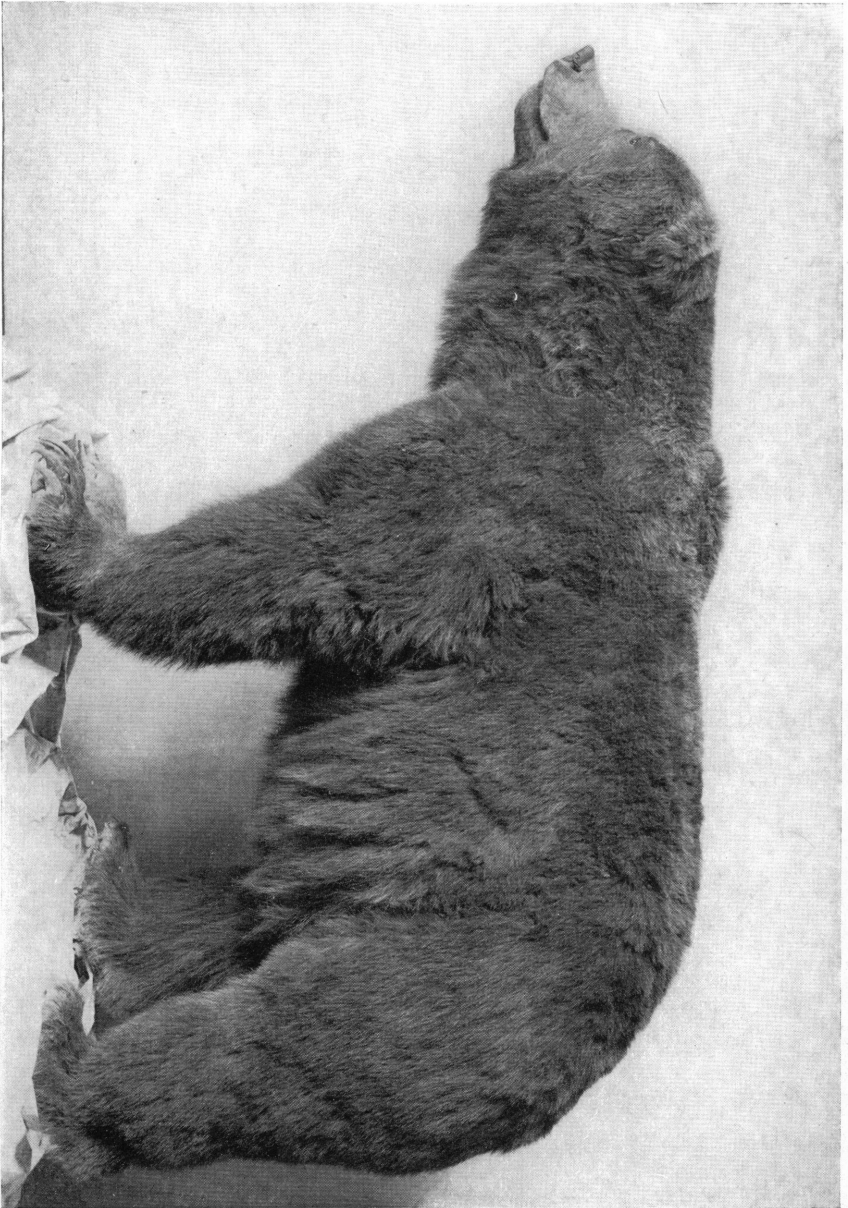
the same as in 1903 and 1902. This generous sum proved, however, insufficient to meet the running expenses, leaving a deficit of more than \$8,000 to be made up by a friend of the Museum. Naturally, with the steady and rapid growth of the Museum, the running expenses must correspondingly increase, for 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



THE ALASKA PENINSULA BEAR. STONE EXPEDITION.

Length of specimen in the flesh about seven and one-half feet; weight, 1600 pounds.

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.
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Annual Members.

ABEGG, HENRY	HOWLETT, A. AMES
ALDRICH, MRS. H. D.	JAEGER, FRANCIS M.
BALDWIN, O. D.	JOHNSON, S. FISHER
EANYER, 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 PALÆONTOLOGY:—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 Bryozoon, 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.

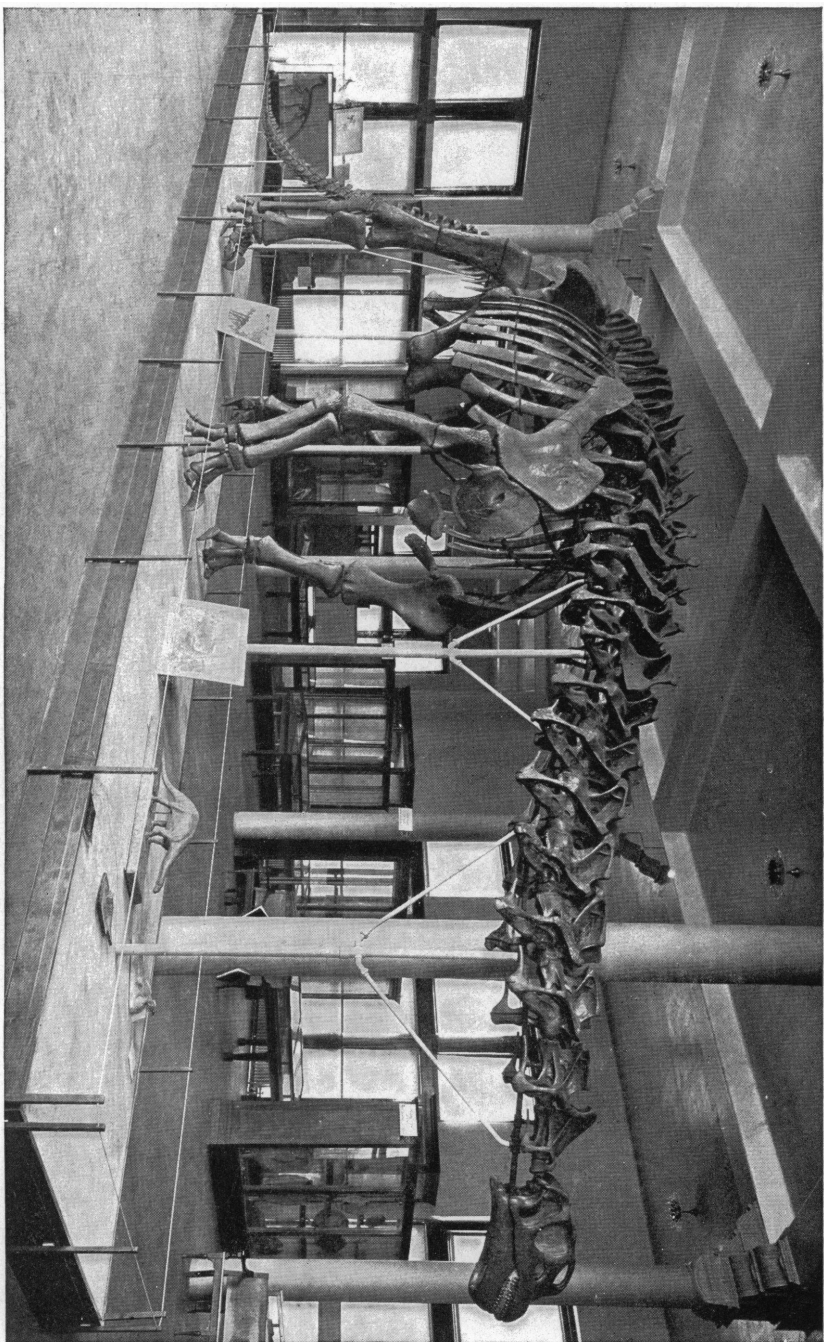
The Curator, in addition to his editorial supervision of the *Bulletin*, has been able to devote considerable time to the preparation of papers on mammals, and during the year published reports on a number of important collections received during recent years and now for the first time critically identified. 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



BRONTOSAURUS SKELETON IN THE DINOSAUR HALL.
Mounted under the direction of Professor H. F. Osborn by A. Hermann.

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.

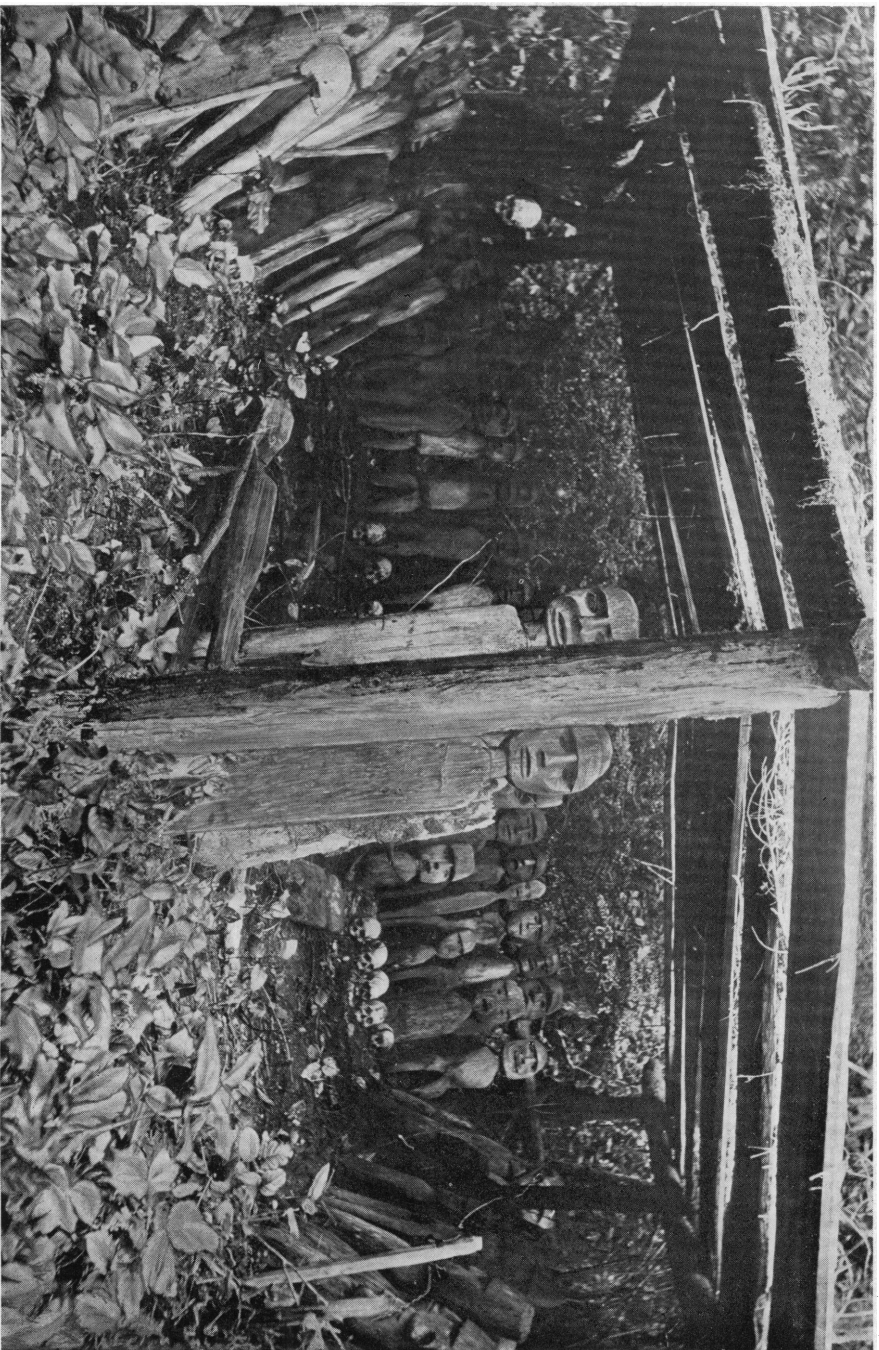
The most notable addition to the William Demuth pipe collection has been the acquisition, from Mr. Francis La Flesche, of a set of ceremonial pipes of the Omaha Indians.

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.



CEREMONIAL HOUSE USED BY WHALERS, NOOTKA, VANCOUVER ISLAND.
This Material is now in the Museum.

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.

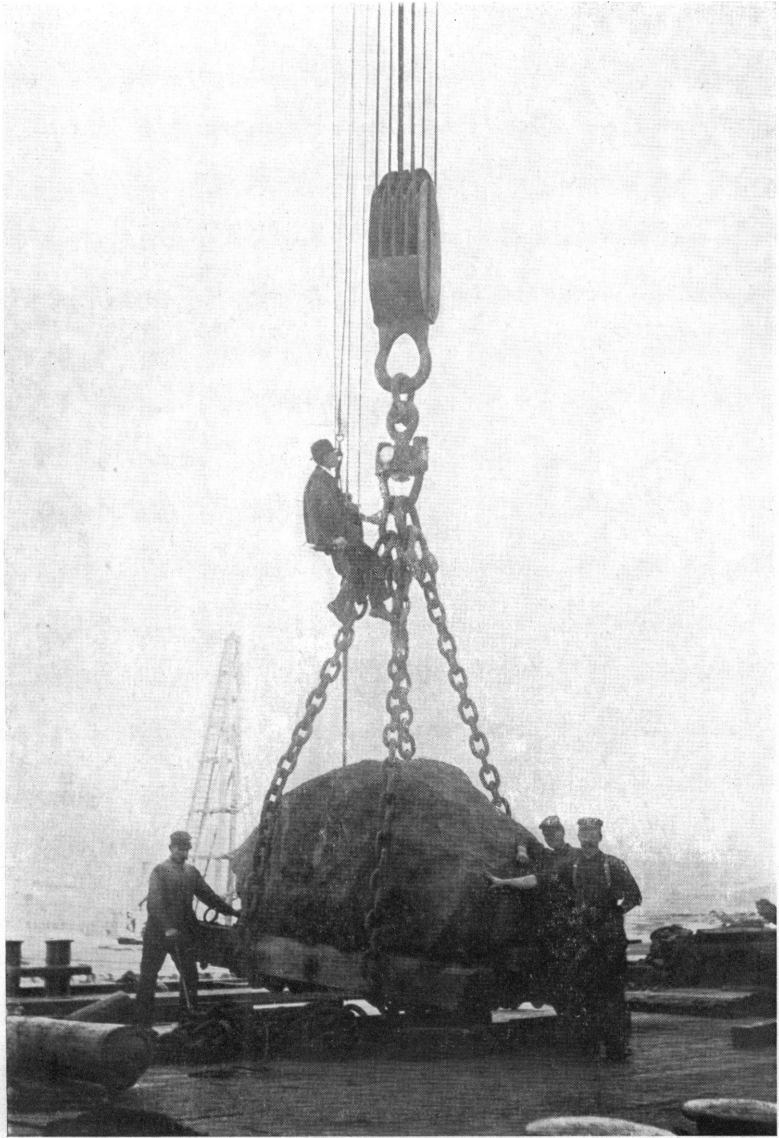
Mr. J. Rhinelander donated a unique example of combs of the honey bee (*Apis mellifera*) built on the branch of a tree.

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.



AIINIGHTO, OR THE TENT.

The largest of the Cape York meteorites. Removal from the Cob Dock, Brooklyn Navy Yard.
Now at the American Museum.

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 *Siderastræa 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

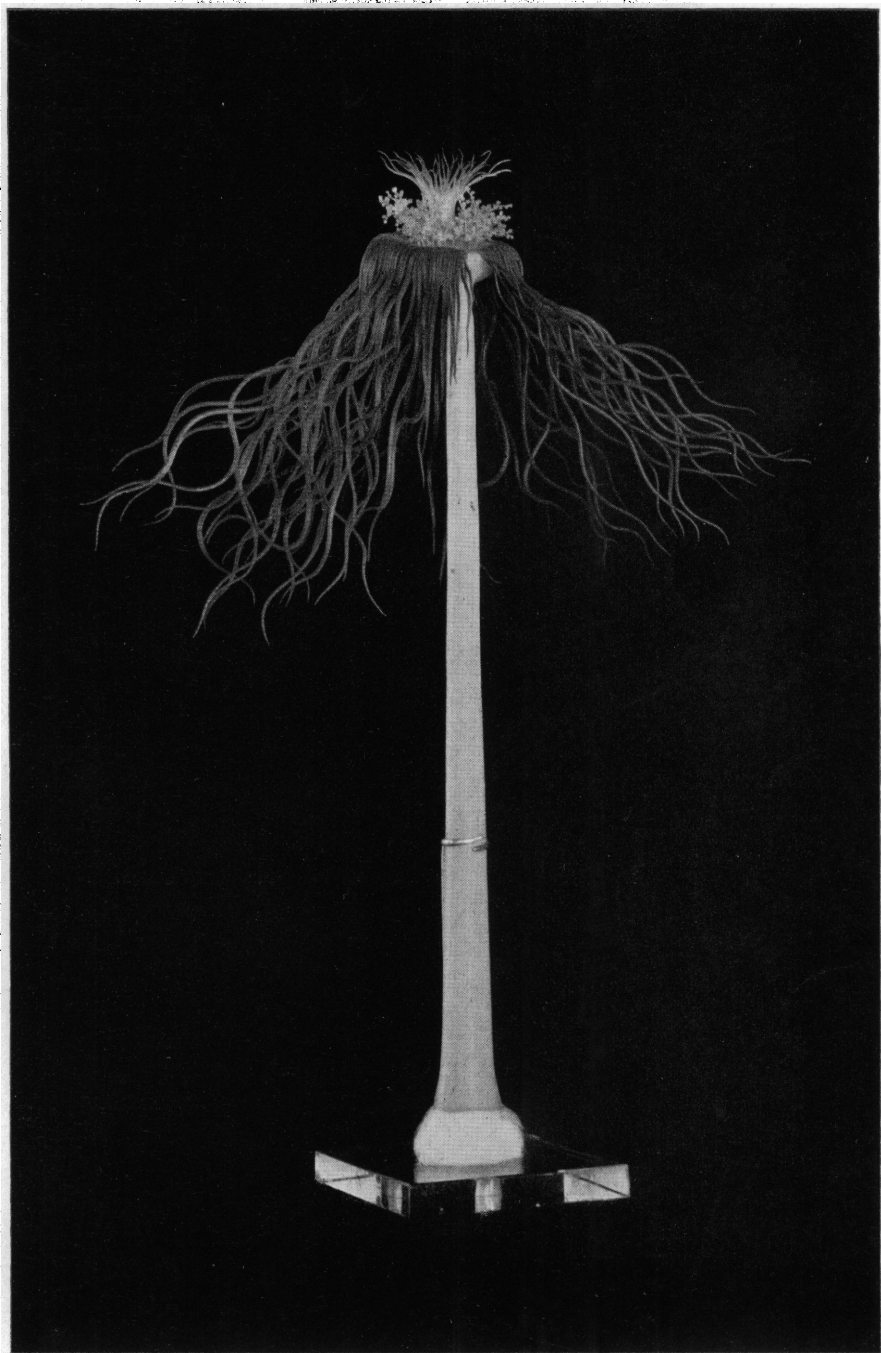
deepening the interest of the teachers and pupils of the New York schools in the collections of the Museum and the wide range of subjects which they represent. With the opening of the public schools in the fall of the past year the Museum was prepared to loan the small sets of natural history specimens 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



GIANT HYDROID OF THE JAPANESE SEAS.
(Twenty-eight inches in height.) Model in glass and wax prepared at the Museum.

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:

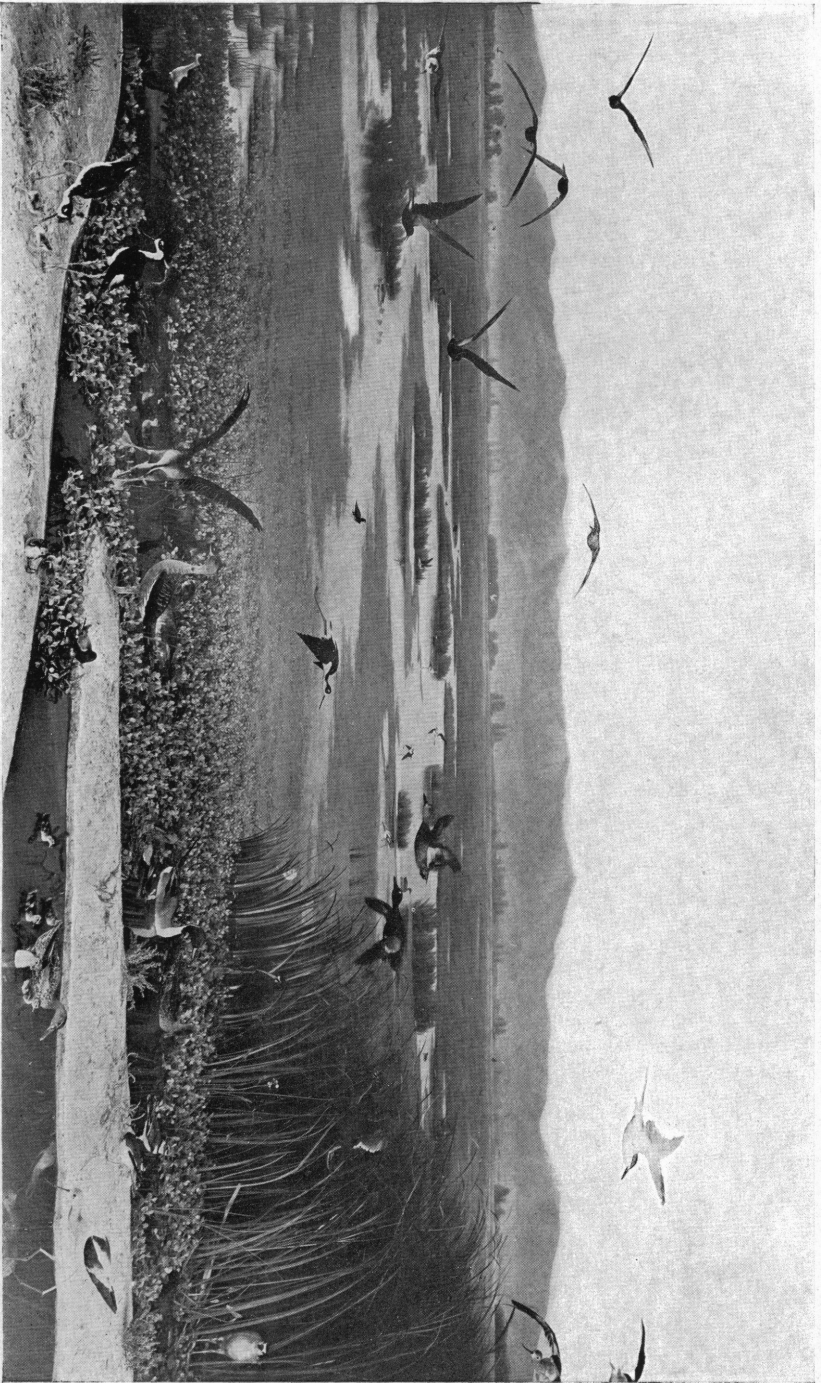
DEPARTMENT OF GEOLOGY AND INVERTEBRATE PALÆONTOLOGY.

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.)



THE SAN JOAQUIN VALLEY GROUP.
Background painted by Charles J. Hittell (landscape) and Louis Agassiz Fuertes (birds). Birds mounted by H. S. Denslow.

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

- 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 RelicsHarlan 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

- BOARD OF EDUCATION LECTURES.

Jan. 5.—Literary and Historic Shrines of Boston and Vicinity.....Isaac F. Smith
“ 12.—Evangeline Land and Poem.....Austen T. Kempton
“ 19.—The History and Beauty of Old New England.....John Jay Lewis
“ 26.—Niagara and the St. Lawrence.....John Hutchison

Feb. 2.—Up the Hudson and Mohawk to Niagara Falls..William L. Mason
“ 9.—The Development of New York City.....George F. Greene
“ 16.—The Louisiana Purchase and the St. Louis Exposition,
Herbert L. Bridgman
“ 23.—The City of Washington.....Dr. George H. Payson

Mar. 1.—In the Wake of the Half-Moon. The history, legends, literary asso-
ciations and scenic grandeur of the Hudson River,
Bernard M. Sheridan

Mar. 8.—Geographic Influence in the Development of the United States,
Cyrus C. Adams
“ 15.—The Monuments of a Prehistoric Race. The result of investigations
among the cliff ruins of the ancient Pueblo region of the South-
west.....Frederick I. Monsen
“ 22.—In Greater Yosemite.....John E. Stuchel
“ 29.—Unique Utah.....Edward P. Clarke

April 5.—Pike's Peak, Pass and Plain.....Gilbert McClurg
“ 12.—The Cities of Mexico.....Dr. Leo S. Rowe
“ 19.—The Republic of Colombia and the Panama Canal,
Luther P. McKinney

Oct. 4.—Australia as It Was and Is.....W. Hinton White
“ 11.—Picturesque New Zealand.....W. Hinton White
“ 18.—The Story of the Sea: Its Ships and Sailors.....W. Hinton White
“ 25.—Life in Korea.....Dr. William E. Griffis

Nov. 1.—Syria and Palestine.....L. G. Leary
“ 8.—Street and Out-door Life in the Mikado's Empire,
Dr. William E. Griffis
“ 15.—Siberia.....Frederick A. North
“ 22.—India.....Thomas P. Hughes
“ 29.—How the People Live in Congo Land.....D. W. C. Snyder

Dec. 6.—Cairo.....Gerhardt C. Mars
“ 13.—Morocco and Southern Spain.....Frederick E. Partington



GIANT SEA-ANEMONE OF THE GREAT BARRIER REEF OFF AUSTRALIA.
(Fourteen inches in diameter.) Model in glass and wax prepared at the Museum.

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.

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
	<u>\$1,013,000 00</u>

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
		<u></u>
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
		<u></u>
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
		<u></u>
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
		<u></u>
DISBURSEMENTS, 1904.		
Andrew J. Stone, salary and expenses in the field....	\$1,033 03	
Freight.....	11 00	\$1,044 03
		<u></u>
RECAPITULATION.		
Total receipts.....	\$15,406 46	
Total disbursements.....	15,406 46	

JOHN H. WINSER, *Treasurer.*

Correct.—E. L. MASSETT, *Auditor.*

December 31, 1904.

THE AMERICAN MUSEUM OF NATURAL HISTORY

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	
		168,158 69
Interest on Balances.....		120 76

\$183,279 45

Examined and Approved.	{	ANSON W. HARD,	}	<i>Auditing Committee.</i>
		GEORGE G. HAVEN,		
		GUSTAV E. KISSEL.		

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 w	
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.....	44,035 22	
	<u> </u>	\$168,158 69
Interest on Balances transferred to General Account.		120 76
Cash on hand December 31, 1904.....		<u>15,000 00</u>
		<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 Palæontology.....	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
		<u>\$78,605 30</u>

Examined { ANSON W. HARD, }
and Approved. { 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	
		\$76,502 72
Cash on hand December 31, 1904.....		2,102 58

\$78,605 30

[E. & O. E.]

NEW YORK, December 31, 1904.

CHARLES LANIER, *Treasurer.*

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 PALÆONTOLOGY:

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
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INTERNATIONAL GEOGRAPHICAL CONGRESS:

Morris K. Jesup.....	200 00
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Total receipts for the development of specific departments.....

\$11,181 13

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. Bowdoin.....	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
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\$582,271 80

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
Total disbursements for the development of specific departments.....		\$8,358 90
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

[E. & O. E.]
NEW YORK, December 31, 1904.

CHARLES LANIER, *Treasurer.*

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. x

1 *Allorisma terminale*, 10 Coal Measure fossils.

WILLIAM DIECKMANN, New York City. x

5 Silicified Echinoderms from Old Lüneburg, Hanover.

JOHN K. PRATHER, New York City. x

Monoplura marcida, *Requiena patagiata*, *Pleurocora texana*—Cre-
taceous fossils from Texas.

MRS. A. F. W. RAFFENSBERGER, New York City. x

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. —

853 " " 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. Y.

✓ 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 Zoölogical Society and the New York Aquarium.

J. T. NICHOLS, Napeague, 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. SCHNEIDER, 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 Holboell'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 *Mosasaurs*.

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.

- ✓ 1 Wheat-husks from Egypt.

REV. D. S. DODGE, New York City.

- 36 Navajo rug.

MR. ARCHER M. HUNTINGTON, New York City.

- ✓ 4 Specimens illustrating the religious ceremonials of the Maidu Indians, California. Collected by D. L. Spencer.
- ✓ 2 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.

- ✓ 19 3 Cree Indian pipes.

✓ 4 Pawnee peace-pipes. Collected by Mr. Francis La Flesche.

- ✓ 3 Collection of Eskimo pipes.

- LIEUT. G. T. EMMONS, Princeton, N. J.
 ✓ 5 Collection of specimens from Alaska.
- MRS. DUNCAN D. McBEAN, New York City.
 ✓ 6 1 Basket from Flathead Indians.
- DR. C. F. NEWCOMBE, Victoria, B. C.
 1 Plaster cast of stone hammer from British Columbia.
- 2 MR. ALFREDO STOCKMAN,
 7 Prints of carvings in stone from Venezuela.
- ✓ 15 MR. JAMES HANNAN, New York City.
 Machete in wooden sheath.
- ✓ MR. ALFRED C. FARRELL, New York City.
 Set of gambling-sticks from Alaska.
- 8 MR. J. VAN SANTVOORD, New York City.
 Photo of tree-burial in Dakota.
- 4 MR. W. JOCHELSON, Zürich, Switzerland.
 Collection of negatives of the Yakut of eastern Siberia.
- 5 MRS. J. E. DE FOREST, New York City.
 2 Carved gourds from Oaxaca, Mex.
- 6 MISS E. S. ADAM, New York City.
 Pair of moccasins and beaded bag of Sioux Indians.
- 1 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.
- 2 Estate of DR. THOMAS LAWYER, Cobleskill, N. Y.
 Pair of sandals and neck-ornament from South Sea Islands and Ceylon.
- ✓ 3 HISTORICAL ANTIQUARIAN SOCIETY, Schaffhausen, Switzerland.
 7 Prints of ethnological specimens.
- 9 PROF. F. E. LLOYD, New York City.
 1 baho from Arizona.
- ✓ 10 PROF. J. DYNELEY PRINCE, New York City.
 1 Ashantee drum from Africa.
- ✓ J. PIERPONT MORGAN, JR., London, England.
 Several knob-kerries from Africa.
- ✓ 3 ZOÖLOGICAL 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.

✓14 Collection of Alaskan baskets.

E. W. DEMING, New York City.

✓32 9 Ethnological specimens from various Indian tribes, and Finn woman's shoes.

GUIMET MUSEUM, Paris, France.

14 plaster casts of Chinese mirrors.

BY PURCHASE.

✓8 Collection of specimens from Alaska.

✓9 Eagle-feather skirt and phonographic record of Indian song from California.

✓15 Photos of Indians of Copper River, Alaska.

✓20 1 Large jade axe from Nome.

✓24 Specimens from Congo region.

✓30 1 Maori skull.

+✓24 3 Skulls from Mexico.

✓40 Cheyenne collection.

✓46 1 Bantu shaman's dress and fetich.

✓3(?) Fetich from Congo region.

✓41 Collection of Iroquois specimens from Seneca Reservation.

✓52 Yakima parfleche from State of Washington.

✓54 10 Ethnographical objects from Russia.

✓59 2 Ainu knives from Japan.

✓62 2 Ojibwa rabbit-skin blankets.

✓66 Ethnological collection from Korea, China.

THROUGH MUSEUM EXPEDITIONS.

✓15 Specimens from British Columbia. Collected by George Hunt.

✓37 Specimens from the State of Washington and from British Columbia. Collected by James Feit.

✓34 Collection of specimens illustrating the ceremonials of the Blackfeet. Collected by Dr. Clark Wissler.

✓35 Specimens from the Uchee. Collected by F. G. Speck.

✓48 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.

✓3 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.

✓ 3 DR. S. A. DAVIS, Yonkers, N. Y.

Stone *bola* from Guamate, Ecuador; 2 stone axes from Macas, 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 archæological 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.

✓ 11 486 Shell celts, 1 stone celt and 1 potsherd from Barbados, West Indies.

✓ 16 Bauer Archæological collection from Mexico.

✓ 1r 8 Copy of obverse and reverse of ancient Mexican painting on deer skin.

FROM DEPARTMENT OF PREPARATION AND INSTALLATION.

✓ 12 Models of Serpent Mound, Ohio; Fort Ancient, Ohio; Effigy Mounds, Wisconsin; and Cahokia Mound, Illinois.

✓ Various casts of archæological 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 *Papilio 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 *Plusiotus* from Central America.
- ✓ MRS. W. H. STAYER, 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
Teleda 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.
- 1 " " Quartz, from Sonora, Mexico.
- 1 " " Argentite, from Sonora, Mexico.
- 1 " " Para Melanconite, from Bisbee, Arizona.
- 1 " " Tetrahedrite, from near Casapolca, Peru.
- 1 " " Realgar, " " "
- 1 " " Linarite, " " "
- 1 " " Chromite, from New Caledonia.
- 1 " " Genthite, from Ghenelik, Asia Minor.
- 1 " " Pectolite, from West Paterson, N. J.
- 1 " " Stilbite, " " " "

BY PURCHASE.

- 1 Specimen of Calaverite (roasted), from Cripple Creek, Col.
- 1 " " Gypsum, from Eisleben, Saxony.
- 1 " " Columbite, from near Cañon City, Col.
- 1 " " Stibiotantalite, from West Australia.
- 1 " " Tantalite, " " "
- 1 " " " " " "
- 1 " " Coloradoite, from Kalgoorlie, Australia.
- 1 " " Kalgoorlite, " " "
- 1 " " Calaverite, " " "
- 1 " " Halite, from Szlatina, Hungary.
- 1 " " Dyscrasite, with silver, from New South Wales.
- 1 " " Anapaite, from Anapa.
- 1 " " Bindheimite, from Silver City, South Dakota.
- 1 " " Smoky quartz, from Delaware Co., Pa.
- 1 " " Gold conglomerate, from Johannesburg, Transvaal.
- 1 " " Muscovite, from Keystone, South Dakota.
- 1 " " Jamesonite, from Silver City, South Dakota.
- 4 " " Amethystine Calcite, from Joplin, Mo.
- 1 " " Green Fluorite, from New Hampshire.
- 1 " " Wulfenite, with Ekdemite, from Pinal Co., Arizona.
- 1 " " Tennantite, from Idaho Springs, Colorado.
- 1 " " Calcite, from Joplin, Mo.
- 1 " " 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 " " *Chrysopa juloidea* Forbes, from Tasmania.

6 " " *Clusilia variegata* A. Ad., from Hirado Hiren.

3 " " *Flammulina d. lia* Pfr.

3 " " *Endodonta coma* Gray, from Wainku, N. Z.

3 " " " *tasmaniae* Cox, from Tasmania.

137 Specimens, 53 species, from Japan. *Gifted to J. H. Batty*

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 Coelenterata from the coast of Ireland. —

BY PURCHASE.

- A collection of Madagascar Formicidæ (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 (*Branchioerianthus 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 laxigatus*).

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.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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

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

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.

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.

[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.*

¹ As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

CONTRACT

WITH THE DEPARTMENT OF PUBLIC PARKS

FOR THE OCCUPATION OF THE NEW BUILDING.

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

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

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

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

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

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

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

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

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

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

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

Sixthly.—That the said party of the second part shall, on or before the first day of May, in every year, during the 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.

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 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*.

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

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

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. 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.*
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 Carse, John B.
 Carter, James C.
 Carter, Samuel T.
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 Church, Charles B.
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 Church, Theo. W.
 Claflin, John
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 Clark, D. Crawford
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 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

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| Conklin, Roland R. | de Forest, Mrs. Robt. W. | Doughty, Mrs. Alla |
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 King, Edward
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 Lauderdale, J. V., M.D.
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 Lawrence, Cyrus J.
 Lawrence, Emlen N.
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 Layng, James D.
 Leale, Charles A., M.D.
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 Lee, J. Bowers

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 Leslie, E. A.
 Leupp, Wm. H.
 Levi, Albert A.
 Levi, Emil
 Levi, Emil S.
 Levine, Julius
 Levy, Emanuel
 Lewis, Frederic E.
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 Lewis, Richard V.
 Lewisohn, Adolph
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 Lincoln, Lowell
 Lisman, Frederick J.
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 Livingston, Edward
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 Lloyd, Francis G.
 Lobenstine, W. C.
 Lockman, John T.
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 Loewi, Valentine
 Loewy, Benno
 Loring, D. A.
 Louis, Chas. H.
 Lounsbery, R. P.
 Low, C. Adolphe
 Lowell, Miss C. Russell
 Lowell, Mrs. Charles R.
 Löwengard, Otto
 Ludington, C. H.
 Ludlow, James B.
 Lueder, A.

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| Markley, T. W. | Meyer, Thomas C. | Myers, J. G. |
| Markoe, J. W. | Meyn, Heinrich | |
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- Stratton, Robert M.
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 Sykes, Martin L.

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 Thompson, W. Prall
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 Ulmann, Rev. Aug.
 Ulmann, Ludwig
 Untermyer, Isaac

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 Watson, Rev. J. Henry
 Weatherbee, Mrs. E. H.
 Weber, Dr. Leonard
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 Wehrhane, Chas.
 Wehrum, Chas. C.
 Weidenfeld, Camille
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 Wells, Oliver J.
 Welsh, S. Charles
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 Whearty, Daniel C.
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 Wheelock, Wm. A.
 White, Alain C.
 White, Miss Caroline
 White, Horace
 White, J. G.
 White, John Jay, Jr.
 Whitehouse, J. Henry
 Whiting, Giles

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Wilbur, M. T.	Wolfe, Mrs. Anzonetta B.	Young, E. F. C.
Willcox, David	Wolff, Emil	Young, Richard N.
Williams, Blair S.	Wolff, Lewis S.	
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Williams, Richard H.	Wood, Henry R.	Zachry, J. G.
Wills, Charles T.	Wood, Mrs. John D.	Zickel, S.
Wills, Wm.	Wood, Orrin S.	Ziegler, William
Wilson, George	Wood, Dr. Wm. B.	Zinsser, Aug.
Wilson, Geo. T.	Wood, Wm. C.	Zinsser, Wm. H.
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Wilson, James	Woodward, Mrs. Wm. Jr.	Zollikoffer, O. F.

