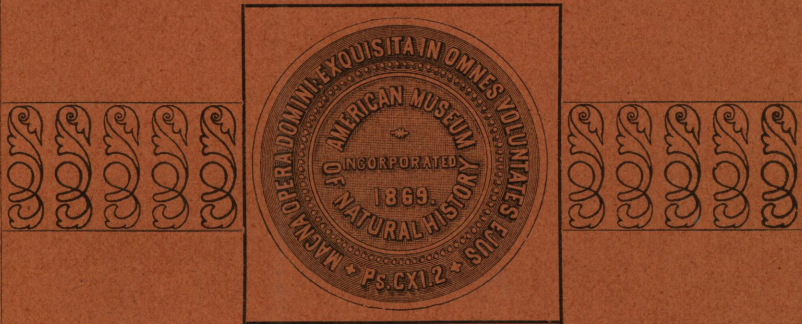


THE
American Museum of Natural History

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,

CONSTITUTION,

BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1898.

—♦♦—
PRINTED FOR THE MUSEUM.

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AMERICAN MUSEUM OF NATURAL
HISTORY,

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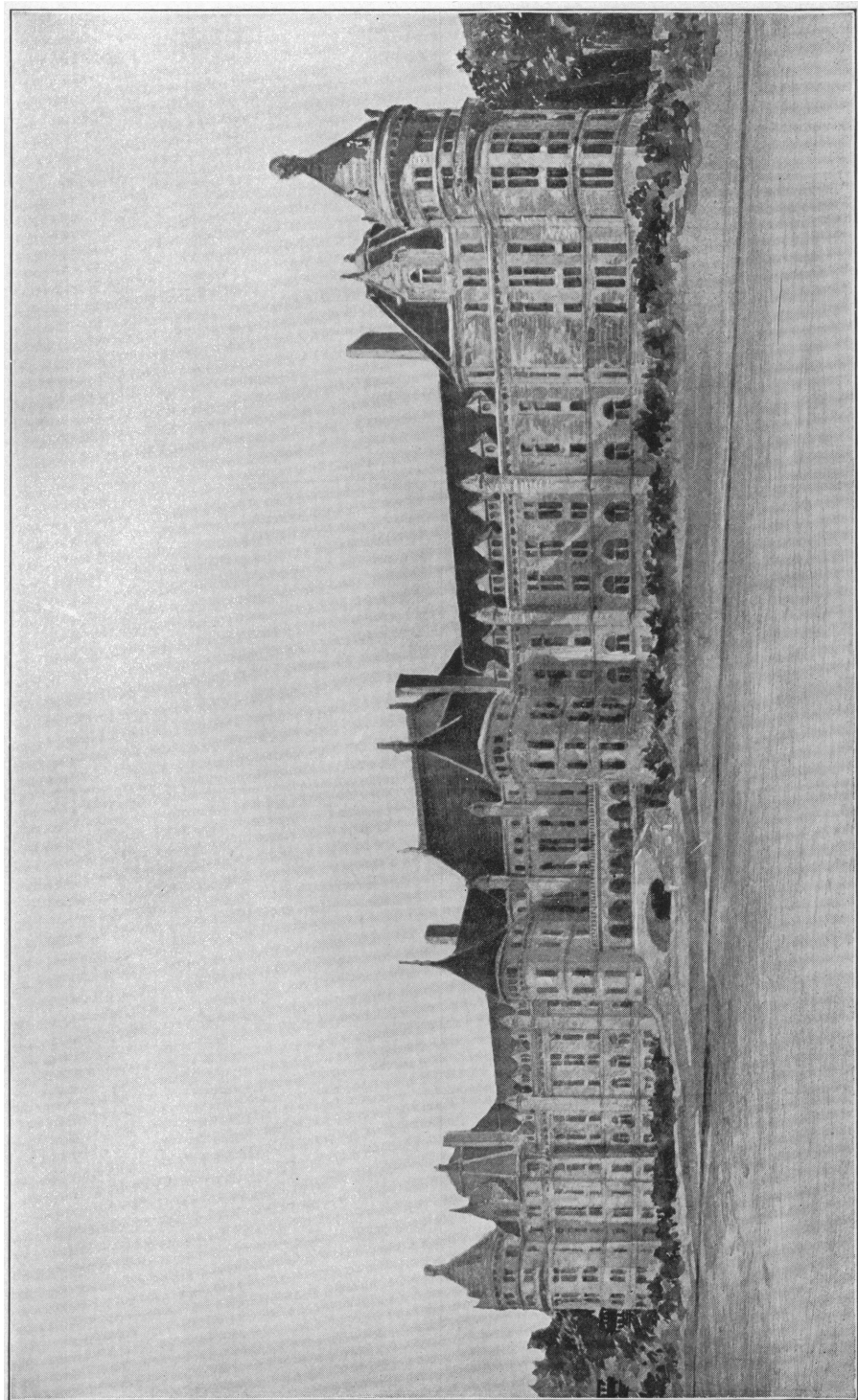


NEW YORK:
PRINTED FOR THE MUSEUM.

1899.

THE KNICKERBOCKER PRESS, NEW YORK

THE
AMERICAN MUSEUM OF NATURAL HISTORY.



PERSPECTIVE VIEW OF SOUTH FRONT OF MUSEUM, SEVENTY-SEVENTH STREET.

From a Drawing by Calv, Berg and See, Architects.

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1899.

MORRIS K. JESUP.

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DEPARTMENTS OF GEOLOGY, MINERALOGY, CONCHOLOGY,
AND MARINE INVERTEBRATE ZOÖLOGY.

Prof. R. P. WHITFIELD, Curator.
L. P. GRATACAP, Ph.B., } Assistant Curators.
Dr. EDMUND O. HOVEY, }

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

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FRANK M. CHAPMAN, Assistant Curator.
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DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

Prof. HENRY FAIRFIELD OSBORN, Curator.
Dr. J. L. WORTMAN, Assistant Curator.
Dr. W. D. MATTHEW, Assistant.

DEPARTMENT OF ANTHROPOLOGY.

Prof. FREDERIC W. PUTNAM, Curator.
MARSHALL H. SAVILLE,
Assistant Curator of the Archæological Division.
Dr. FRANZ BOAS,
Assistant Curator of the Ethnological Division.

DEPARTMENT OF ENTOMOLOGY.

W. BEUTENMÜLLER, Curator.

LIBRARIAN.

A. WOODWARD, Ph.D.

SUPERINTENDENT OF BUILDING.

WILLIAM WALLACE.

FORM OF BEQUEST.

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

.....

.....

THIRTIETH ANNUAL REPORT.

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

I present herewith my annual report of the progress of the Museum for the year ending December 31, 1898.

The Budget for the year, approved at the Annual Meeting of the Trustees, showed an estimated deficit in the receipts of \$21,346, of which \$15,152 was for account of Maintenance, and \$6,194 for Endowment.

Attention is directed to the details of the Treasurer's report on pages 28-31.

ADDITIONS TO THE BUILDINGS. — The construction of the additions to the east and west wings and of the new lecture hall have steadily progressed. Some delay occurred, however, by reason of the uncertainty regarding the limit of the City debt, and the difficulty in securing the granite as rapidly as was required. As a consequence the buildings are not in as forward a state of preparation as was predicted in my report of last year; but it is now expected and hoped that the buildings will be completed during the year 1899.

LEGISLATION. — A law was passed at the session last year entitled Chapter 303 of the Laws of 1898, by which Section 3 of the Act of Incorporation was amended to read as follows: — "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."

By its terms the Trustees are not restricted in the amount of real and personal estate which they may hold for the endowment of the Institution.

At the Annual Meeting held in February last, Messrs. H. O. Havemeyer and A. D. Juilliard were elected Trustees.

MEMBERSHIP.—Messrs. A. D. Juilliard and H. O. Havemeyer became "Patrons"; and Messrs. Samuel R. Betts, Frederick Billings, Banyer Clarkson, Henry H. Cook, Cleveland H. Dodge, Carl Eickemeyer, James B. M. Grosvenor, Bernard G. Gunther, Wm. F. Havemeyer, Arthur Curtiss James, Joseph Loth, John G. Moore, Francis Lynde Stetson, Miss Matilda W. Bruce, and Mrs. Wm. M. Macy, Jr., were elected "Life Members."

We have lost by death during the year Dr. Wm. Pepper, H. J. Jewett, and John A. C. Gray, "Patrons"; and Robert G. Remsen, and George Garr, "Life Members." A list of the deceased annual contributors is incorporated at the close of the report.

It became my sad duty to announce at the Annual Meeting of the Trustees the death of our esteemed associate, Daniel Jackson Steward.

Mr. Steward was one of the incorporators of the Museum, and for twenty-nine years had served the interests of the Institution with enthusiasm and fidelity in all that tended to promote its educational and scientific advancement. He lived to see its remarkable growth and the wide extent of its influence.

The large and important collection of shells made by him and donated to the Museum, and which bears his name, is now on exhibition in the upper hall of the main building.

ACCESSIONS.—The numerous accessions received during the year are recorded in detail in the later pages of the report.

The Museum is indebted to the Duke of Loubat for donations to the Department of Anthropology, and the Library. He has defrayed the expense of making casts from the great monoliths and sculptures of Quirigia, Santa Lucia, and other places in Guatemala; from Copan in Honduras; and from many of the sculptures in Mexico; he has provided the means for the continuance of this work to such an extent that the Museum will receive a full series of the casts from the Peabody Museum moulds. He has also presented many large photographs of various sculptures and hieroglyphic slabs in Central America, and given copies of the Codex Vaticanus and Codex Borgiano, which he has had reproduced.

By the gifts of the Duke of Loubat, through Museum expeditions, and by the purchase of specimens the Museum now offers

to the student of Mexican and Central American Archæology unrivalled opportunities for the study of the sculptures and hieroglyphic writings of the ancient peoples of these portions of America.

The investigation of the glacial deposits in the Delaware Valley, near Trenton, has been continued for more than a year under the patronage of Dr. Frederick E. Hyde and has resulted in the addition of very important material to the Department of Anthropology.

Dr. Franz Boas, assistant curator in charge of the ethnological collections, visited Europe during the summer, the expense being defrayed by the Trustees. The object of Dr. Boas's trip was to examine the collections in the various museums and to make arrangements for an exchange of specimens with the ethnological Museums of Berlin and Dresden. These exchanges have proved of value to our Museum in filling a number of gaps, and the result shows that our duplicate American material can be largely used in making judicious exchanges with foreign museums.

Through the liberality of Mr. Jacob H. Schiff, Dr. Boas purchased a collection illustrating the manufacture and use of iron by the natives of Africa, and also a collection illustrative of the use of the cocoa palm by the natives of Melanesia. These collections will be utilized in the preparation of ethnic groups illustrating the use of the various natural products of different peoples.

A large quantity of archæological material has been received through the exploration carried on by the brothers B. T. B. Hyde and F. E. Hyde, Jr., among the ruins of the prehistoric Pueblo Bonito, in New Mexico, which was supplemented by their purchase of a collection of great scientific importance from the cliff houses and caves of the Grand Gulch region of southern Utah. The work conducted under the auspices of the Messrs. Hyde is more fully dwelt upon under the report of expeditions.

Through the efforts of Mr. Francis C. Nicholas, general manager of the South American Exploration Company, a large number of important archæological objects have been given by his associates in this corporation, to which due reference is made in the detailed list of donations to the department.

An extensive collection of Ainu objects from the Island of Yezo, Japan, was secured by Mr. Arthur Curtiss James, while in

Yezo, during the cruise of the 'Coronet,' and was presented by him to the Museum. The collection consists of garments, ornaments, utensils, weapons, and other objects illustrating the customs of these people.

A large and beautiful collection of Apache baskets and water bottles is the gift of Prof. James Douglas.

Mr. B. Talbot B. Hyde has given an interesting series of objects illustrating the making of a Navajo blanket, consisting of sheep pelts, wool, native dyes, loom and weaving implements, a loom with blanket partly woven, and a full series of photographs showing the Indian at work in the different stages of its manufacture.

Late in the year a collection of objects from the islands of the Western Pacific Ocean was purchased by the Trustees from Dr. Otto Finsch of Leiden. In this collection is material illustrating the physical anthropology of the tribes of Melanesia and Micronesia. It also contains a systematic collection of objects illustrating the manufactures, arts, and customs of the people of these great groups of islands. There is a detailed catalogue of the collection and many drawings by Dr. Finsch with an account of the culture of the tribes he met with during the several years he was engaged in his researches.

The mineral collection has been enriched by a number of large and very important specimens presented by Miss M. W. Bruce. Many handsome specimens have also been added by purchase.

A collection of fresh-water and land shells, containing over 1,000 species and nearly 18,000 specimens, was received under the terms of the will of the late Prof. Edward D. Cope.

The Department of Vertebrate Zoölogy has received 1,246 mammals, 545 birds, 1,000 eggs, 25 reptiles, and 190 fishes, the latter received from the Department of Parks, through Dr. Tarleton H. Bean.

Important accessions have been received on account of the James M. Constable Expedition to the Northwest Territory.

We are indebted to Mr. G. O. Shields of this city for a family group, comprising the male, female, and young of the Rocky Mountain goat.

Valuable material has been received for bird groups, including a series of sea birds from Bird Rocks, in the Gulf of St. Law-

rence ; for a Brown Pelican group, from Florida, and for several groups of land birds, to fill gaps in our series of New York birds. Specimens have also been acquired for the local mammal groups, which are well under way.

The Department of Parks has contributed 48 specimens of mammals, and 44 of birds.

We are indebted to the generosity and public spirit of the Very Reverend Doctor Eugene A. Hoffman for the gift of a collection of butterflies from Mexico, Central and South America, numbering 2,250 specimens.

Fourteen enlarged transparencies of selected types of trees, photographed from nature, have been added to the "Jesup Collection of North American Woods." These pictures are displayed in the windows of the Wood Hall, and are provided with transparent labels. Eighteen specimens of trees new to the collection have also been added.

The Library has received a very notable accession in the Marcou collection of works on geology, presented to the Trustees by his heirs, Mr. John Belknap Marcou and Dr. Philippe Marcou. This library was formed by the late Prof. Jules Marcou, an eminent authority in this domain of science, whose reputation is world-wide. This gift comprises about 3,000 volumes and a large collection of maps. It had the distinction of being (with one exception) the largest private library of its kind, and, it is claimed, places the Museum in possession of the most complete collection of literature on geology and palæontology in America. The Trustees are to be congratulated upon the generosity of the donors in selecting this Museum as their beneficiary. The scientists and students of New York will appreciate the opportunity for reference they will enjoy from the location of the library in this city.

During the year, the Duke of Loubat presented to the library 76 volumes and a number of pamphlets on Mexican Archæology, besides 10 large albums of photographic views pertaining to Ceylon and Java, and the ruins of Palenque, Mexico.

The Department of Vertebrate Palæontology has received from its exploring parties a very important collection of skeletons and parts of skeletons of fossil reptiles and mammals, as mentioned in the detailed list of accessions.

EXPEDITIONS.—The third year of the explorations carried on under the auspices of the Messrs. B. T. B. Hyde and Frederick E. Hyde, Jr., was a very successful one. The investigation of the ruins of the prehistoric Pueblo Bonito in New Mexico was made under the personal direction of Mr. George H. Pepper, and a large amount of interesting material was secured. Photographic views were made illustrative of the progress of the exploration of the ruins, and showing the objects in place as they were disclosed.

In furtherance of their intention of providing for the Museum a complete collection of the material of the pueblo and cliff-house regions of the Southwest, the Messrs. Hyde purchased a collection of great scientific interest, collected by Mr. Richard Wetherell from the cliff houses and caves of the Grand Gulch region of southern Utah. This collection comprises mummies and funeral objects of a people who, it is claimed, are distinct from the cliff dwellers, and who also preceded the cliff-house people of this region. This work is done under the direction of the Department of Anthropology, and is conducted solely at the expense of the Messrs. Hyde.

The explorations near Trenton, N. J., have been prosecuted without intermission. Dr. Frederick E. Hyde very generously subscribed the sum required for this purpose, and he will contribute funds for the continuance of the work during 1899.

The explorations in Bolivia, under Dr. A. F. Bandelier, were successfully continued during the past year. The explorer transferred the scene of his operations from Peru to the eastern portion of Bolivia, sending in January last a considerable number of specimens; and notice has also been received that another large shipment of objects is on the way. His latest work has been among ruins and burial-places unlike those explored by him in Peru, and will add to the Museum new and interesting material.

In my last report reference was made to the investigations being made by Mr. Marshall H. Saville, under the terms of arrangement between this Institution and the Government of Mexico. Mr. Saville continued his researches until the climatic changes compelled a return to his duties at the Museum. Three tombs were examined and their structure noted. On his return from Palenque, Mr. Saville made an ethnological collection from

the several tribes of Indians met by him, providing material unrepresented in this division of the Museum. He next visited ruins at Xoxo and Monte Alban, State of Oaxaca, where with a force of thirty natives he excavated several large mounds, remaining here forty-three days. His attention was next turned to the well-known ruins at Mitla, where he secured a further number of objects of much interest. The explorations thus far made under the authority of the Mexican Government show the importance of further work at the two localities in Oaxaca. If another expedition can be sent the coming autumn to work uninterruptedly at these places during an entire working season, there is little doubt that a very considerable addition to our Mexican collections could be secured and many important archæological problems solved.

In order to obtain further information relating to certain Mexican tribes, particularly in relation to their religious ceremonials, among which he had made extended researches during the previous year, Dr. Carl Lumholtz made a four months' trip to Mexico, bringing back an unique collection of exceeding interest. Dr. Aleš Hrdlička was associated with him for the purpose of making a series of anthropometrical records and observations on the physical character of several of the Indian tribes, and to collect as many human skeletons as possible. Dr. Hrdlička also secured a number of life masks of these Indians, and the burial caves which he investigated yielded many human skulls and skeletons. The material thus acquired is essential for comparative study of the past and present tribes of eastern Mexico.

Prof. F. W. Putnam, curator of the Department of Anthropology, reports that "The Jesup North Pacific Expedition has had seven parties in the field. During 1897 the field work of the Expedition was confined to the coast of British Columbia. In 1898 the work was taken up on a more extended scale. Parties were in the field on the coast of the State of Washington, in the southern interior of British Columbia, and on the Amoor River in Siberia. The parties in charge of the work on the American Continent returned at the beginning of winter; the work in Asia is still being carried on. The collections made by the various field parties of the Expedition are now in large part exhibited in the Museum. These exhibits show, in a systematic manner,

the result of archæological work in the interior of British Columbia and on the coast. The ethnological collections are very comprehensive in regard to the tribes of Thompson River, of the northern part of Vancouver Island, and of the central parts of the coast of British Columbia. Material from the parties working in Siberia, in charge of Dr. Laufer, cannot, however, be expected for several months."

The investigations made thus far have brought together a mass of data, the value of which will be made known as the reports and special memoirs are prepared and published.

TRANSPORTATION.—I desire to again record our indebtedness to the friends from whom the Museum has received aid in the transportation of men and material during the season of field work.

The New York and Cuba Mail Steamship Co.; the Wells, Fargo Express Co.; the Southern Railway, and the New York Central & Hudson River Railroad Company, and allied lines, have extended important assistance in the transportation of our material collected in Mexico and the West.

Our thanks are also due to Mr. J. Pierpont Morgan, Mr. C. P. Huntington, Sir Wm. C. VanHorne, Messrs. George J. Gould, J. Stuart Mackie, and E. T. Jeffrey for their cordial consideration of the wants of the Museum.

DEPARTMENT OF ANTHROPOLOGY.—At no period in the history of this department has so much been done for its development or so many additions been made to its collections as during the past year.

The west wing has been completed, adding several new halls for exhibition purposes, and increased facilities for laboratory work have been supplied by new workrooms on the upper floor. The lower hall in this wing has been provided with cases, which have been filled with ethnological objects, and is now ready to be opened to the public. The gallery above is cased, in which the collections from South America are now being arranged. The large hall on the third floor, which will be devoted entirely to the archæological collections from Mexico and Central America, is in an advanced state of arrangement; this hall and the gallery will be ready to open to the public within the year to come.

The material in the North Hall has been readjusted with the



intention that the hall is ultimately to contain only the ethnology of the North Pacific Coast of America. When the transfer of several small collections is finished, the cases on the east side of the hall will contain only the Emmons and Bishop collections from British Columbia, while in the cases on the west side will be exhibited the collections made by the parties of the Jesup North Pacific Expedition.

The principal collections received during the year, which have been catalogued and prepared, are the collections from Japan; collections from the Jesup North Pacific Expedition, 1898; collection illustrating the African iron industry; collections made in Mexico; the exchange collections obtained from the ethnological Museums of Berlin and Dresden; and the large collections of casts of sculptures from Mexico and Central America. The entries made in the department catalogue during the year number 21,120.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—After planning for the field work of the season in Kansas, Nebraska, and Wyoming, Professor Osborn, the curator of this department, went abroad and visited the Museums of Amsterdam, Brussels, Berlin, St. Petersburg, Moscow, Leipsic, Halle, Vienna, Munich, Stuttgart, Darmstadt, Basle, Lyons, Paris, and London. Methods of exhibition were studied, and arrangements were made for exchanges with our Museum, several of which have already been effected.

The second expedition for Dinosaurs was sent out to Wyoming in charge of Dr. J. L. Wortman, with a party of four. Deposits of Dinosaur bones very favorably situated were found. The party remained in camp at this place from its opening in June until the close of the field season on October 1, leaving one of its members in charge in order to prevent a 'jumping' of the Museum claim upon this remarkable locality. In all some 60,000 pounds of fossils were secured. This splendid collection reached the Museum entirely uninjured, and one third of it has already been worked out, under the direction of the preparator, Mr. Hermann.

The fore and hind limbs of these monster reptiles will furnish subjects of great interest for the public. The exhibition hall has been enriched this year by the skeletons of two great Dinosaurs.

A beautiful series of photographs was taken representing the successive stages of development of this quarry, the complete excavation of which will probably occupy several years. ✓

A second party, under the direction of Dr. W. D. Matthew, was operating in the fossil beds of northwestern Kansas and southwestern Nebraska. The Bad Lands of northeastern Colorado were also found to be a rich collecting ground. Skulls and parts of skeletons were secured, filling many important gaps in our collection. Portions of skeletons and skulls of fossil camels were found, among which is included a gigantic one of the size and proportions of the giraffe. The party also acquired a large amount of similar material to which detailed reference cannot be made within the limits of my report.

Through the kindness of Mr. J. Pierpont Morgan, Mr. Charles Knight, under the supervision of the curator, has continued his restorations of extinct animals and has added five beautiful water-colors to the series, besides completing five models. These restorations of the Extinct Animals of North America have been furnished to the Museums of London, Munich, Brussels, Oxford, Stuttgart, and Cape Town.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE ZOÖLOGY.—The most important work carried on in this department has been the continuation of the cataloguing of the types of the Hall Collection. This has now reached a point where renewed appropriations are needed for the expenses of publication. It is unnecessary to dwell upon the importance of this catalogue in view of its being a permanent record of the type specimens of the Hall Collection. Its publication will increase the value of the collection, besides making it more attractive to students of palæontology. In this connection I have observed the need of setting apart a room for the convenience of students who may desire to consult these collections.

Special attention is directed to the case holding the malachites and similar material presented by the Copper Queen Consolidated Mining Company, which is now exhibited in the north windows of the mineral hall.

The collection of corals has been notably increased, and special attention is directed to two specimens of great beauty collected by Prof. Whitfield. These objects are displayed,

respectively, at the north and south ends of the palæontological hall.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.—I regret to note that the increase in the number of specimens in this department is not equal to that of former years.

Owing to the changes made in the transept of the west wing by the construction of stairways, the mammals formerly displayed there have been removed, temporarily, and cannot be permanently installed until the addition to the east wing, now under construction, is completed. New space has been provided, however, for the installation of the local and other special collections of birds and mammals, which will be especially instructive to students of our local fauna and useful to the teachers and pupils of our public schools. The cases are now ready and the installation will soon be completed.

During the coming year a number of large mammals will be mounted for the North American collection, and others for the general collection of mammals, from the material now on the way from South America and Central America. Several hundred birds will also be mounted for the local and other special collections.

During the year Mr. Frederick M. Holbrook has kindly identified and catalogued the turtles; the fishes received from the New York Aquarium have been identified and catalogued by Dr. Tarleton H. Bean.

DEPARTMENT OF ENTOMOLOGY.—The Hoffman Collection of North American Butterflies has been arranged, labeled, and placed on exhibition. About 1200 specimens of the Hoffman Collection of butterflies from Mexico, Central and South America have been mounted on tablets, and two cases have been filled with the material ready for exhibition.

Two cases containing silk-producing moths, with their cocoons, have been added to the exhibition collection, together with a very interesting exhibit showing the mimicry of insects.

Some field work has been carried on during the vacation season, through which a large amount of material has been added to the local collection representing the varieties of insects found within a radius of fifty miles from New York City. This collection will be made as complete as possible by the addition of the material illus-

trating the life-history and the food plants of the various species, and will serve to stimulate the interest of visitors, and also to invest the collection with a greater value for teachers and students.

The collection of beetles has been revised and the large and unique specimens selected for exhibition. The specimens which are too minute to be easily examined will be accompanied by outline drawings, showing the structural characters of the species.

LIBRARY.—The librarian reports accessions during the year equal to 5839 volumes. The library now contains 41,691 volumes, including the recently acquired Marcou Library. The library is in great need of funds for binding periodicals, and for the purchase of a large number of standard works of reference in various departments of science.

DEPARTMENT OF PUBLIC INSTRUCTION.—I note with great pleasure the increasing interest manifested by our citizens in the work of the Department of Public Instruction. Prof. Albert S. Bickmore, in charge of this branch of the Museum's work, reports that the twenty lectures to the Teachers of the Public Schools, delivered by him under the auspices of the State Superintendent of Public Instruction, had an attendance of more than 17,000 persons. Over 8000 persons attended his Spring and Autumn Courses to Members of the Museum, and the free lectures to the public, given by him on holidays, were attended by nearly 4000 persons.

The popularity of the lectures delivered at the Museum to the Teachers of the Public Schools is evinced in the request from the Board of Education, through Dr. Henry M. Leipziger, Superintendent of Lectures, for duplicates of the slides and text of these lectures, for incorporation in the free courses to the public. A series of these lectures were given on Tuesday evenings at the Museum, the attendance being so great that on each occasion several hundred persons were unable to gain admission.

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

Spring Course.

Lecture	—West Indies—The Lesser Antilles.
"	—Colorado River and its Cañons.
"	—Southern California.
"	—Washington and Oregon.
"	—British Columbia.

Report of the President.

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Autumn Course.

Lecture	—North Atlantic Ocean—The Bermudas.
"	—Cuba—Havana and Santiago.
"	—Jamaica and Porto Rico.
"	—Northern Russia—St Petersburg.
"	—Central Russia—Moscow.

Holiday Course.

New Year's Day—Italy—Rome.
 Washington's Birthday—Italy—Florence and Venice.
 Thanksgiving Day—North Atlantic Ocean—The Bermudas.
 Christmas—Cuba—Havana and Santiago.

PROF. ALBERT S. BICKMORE'S COURSE TO MEMBERS OF THE MUSEUM.

Spring Course, 1898.

Feb. 10.	—Northern Italy—Florence and Venice.
" 17.	—West Indies.
" 24.	—Colorado River and its Cañons.
Mar. 3.	—Southern California.
" 10.	—Washington and Oregon.

Autumn Course, 1898.

Nov. 10.	—North Atlantic Ocean—The Bermudas.
" 17.	—Cuba—Havana and Santiago.
Dec. 1.	—Jamaica and Porto Rico.
" 8.	—Russia—St. Petersburg and Moscow.

COLUMBIA UNIVERSITY COURSE, 1898.

Jan. 8.	—Mining, Ancient and Modern.....	Mr. John A. Church.
" 15.	—Mining of Low Grade Ores.....	Prof. Henry S. Munroe.
" 22.	—Mining at Lake Superior.....	Mr. J. Parke Channing.
" 29.	—Metal Mining.....	Prof. George W. Maynard.
Feb. 5.	—Mechanical Sources of Energy.....	Prof. Frederick R. Hutton.
" 12.	—Generation of Electrical Energy.....	Prof. Francis B. Crocker.
" 19.	—Transmission of Electrical Energy.....	Dr. A. E. Kennelly.
" 26.	—Utilization of Electrical Energy.....	Prof. William A. Anthony.
Mar. 5.	—Some Features of Modern Bridge Construction.....	Wm. H. Burr.
" 12.	—Recent Campaigns in the Soudan.....	Henry G. Prout.
" 19.	—Masonry.....	George S. Morrison.
" 26.	—The Development of the Steamship.....	Horace See.
Dec. 3.	—Wave Motion.....	} Prof. William Hallock.
" 10.	—Visible Radiant Energy.....	
" 17.	—Radiant Heat.....	
" 31.	—Electrical Radiation.....	

NEW YORK BOTANICAL GARDEN LECTURES, 1898.

Mar. 24.	—Hardy Flowering Shrubs and Perennials..	Mr. Cornelius Van Brunt.
" 31.	—A Botanist's Rambles in the Mountains of Oregon.	Prof. Francis E. Lloyd.

LINNÆAN SOCIETY LECTURES, 1898.

- Jan. 6.—Cats, and the Lands they Inhabit.....Prof. Daniel Giraud Elliot.
 Feb. 3.—From Vera Cruz to Mexico.....Mr. Frank M. Chapman.
 Mar. 17.—The Mammals of North America.....Mr. Ernest Seton Thompson.
 April 7.—Protective and Directive Coloration of Animals.
 Dr. C. Hart Merriam.

BOARD OF EDUCATION LECTURES, 1898.

- Jan. 11.—From Lexington to YorktownMr. W. W. Ellsworth.
 " 18.—North American Indians.....Mr. F. S. Dellenbaugh.
 " 25.—Ireland.....Mr. Thomas McVeagh, Jr.
 Feb. 1.—The Homes, Habits, and History of the French People,
 Prof. H. E. Northrop.
 " 8.—The Life of the Swiss Peasantry.....Mr. W. D. McCrackan.
 " 15.—Holland's War with the Sea.....Prof. J. H. Gore.
 " 22.—Wonders of Modern Science.....Mr. W. J. Clarke.
 Mar. 1.—Norway : the Land of the Midnight Sun...Mr. Gilbert Ray Hawes.
 " 8.—Earthquakes : Their Results and what is Known of their Causes,
 Mr. Cyrus C. Adams.
 " 15.—To the Summit of the Matterhorn.....Miss Annie S. Peck.
 " 22.—Volcanoes, Ancient and Modern.....Dr. E. O. Hovey.
 " 29.—The Austrian Alps and the Tyrolese.....Prof. H. E. Northrop.
 April 5.—Light and Color.....
 " 12.—The Electric Current ; Its Chemical
 and Heating Effects.....
 " 19.—The Electric Current ; Its Magnetic
 Effects.....
 " 26.—The Electric Current ; Its Inductive
 Effects.....
 } Mr. E. R. Van Nardroff.
 Oct. 11.—China, the Middle Kingdom
 " 18.—Korea, the Pigmy State.....
 " 25.—Japan, the Island Empire.....
 } Mr. W. E. Griffis.
 Nov. 1.—The United States and the Pacific Ocean.....
 " 8.—Wonders and Beauties of Ceylon.....Mr. G. N. Thomsen.
 " 15.—Arabia.....Dr. Stephen Hasbrouck.
 " 22.—The Bedouins of Arabia and Palestine.
 Mr. Peter von Finkelstein Mamreov.
 " 29.—ConstantinopleMr. Hovhannes Samuelian.
 Dec. 6.—Russia : Moscow to Nijni Novgorod by Way of the Ural
 MountainsDr. E. O. Hovey.
 " 13.—Russia : St. Petersburg to Baku ; The Caucasus. Dr. E. O. Hovey.

RECEPTIONS AND EXHIBITIONS.

New York Academy of Sciences, April 13 and 14.
 Annual Meeting of the Audubon Society, Feb. 9.
 New York State Science Teachers' Association, Dec. 30.

PUBLICATIONS.—The publications of the Museum issued during 1898 greatly exceed those of any preceding year, and include the following : Volume X of the Bulletin, consisting of pp. i-x and 1-

448, with 24 plates and 75 text figures; Part 1 of Volume XI of the Bulletin, pp. 1-72; Part 3 of Volume I of the Memoirs, pp. 75-164, with pll. xii-xx; and Parts 1 and 2 of Volume II of the Memoirs, pp. 1-128, with pll. i-xii. Volume II of the Memoirs will relate exclusively to the results of the Jesup North Pacific Expedition. A list of the articles published in 1898, arranged by departments, is as follows:

DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Notice of a Remarkable Specimen of the West Indian Coral *Madrepora palmata*. By R. P. Whitfield. (Bull. X, pp. 463, 464, pl. xxiv.)

Catalogue of Types and Figured Specimens in the Palæontological Collection of the Geological Department, American Museum of Natural History. By R. P. Whitfield, assisted by E. O. Hovey. (Bull. XI, pp. 1-72.)

DEPARTMENT OF VERTEBRATE ZOOLOGY.

Notes on Birds observed at Jalapa and Las Vigas, Vera Cruz, Mexico. By Frank M. Chapman. (Bull. X, pp. 15-43, pl. iii.)

Notes on Fishes received at the New York Aquarium, with a Description of a New Species of Snapper from Bermuda. By Tarleton H. Bean. (Bull. X, pp. 45-50.)

Descriptions of New Mammals from Western Mexico and Lower California. By J. Allen. (Bull. X, pp. 143-158.)

Notes on Mexican Fishes obtained by Dr. Carl Lumholtz. By Tarleton H. Bean. (Bull. X, pp. 165-168.)

Revision of the Chickarees, or North American Red Squirrels (Subgenus *Tamiasciurus*). By J. A. Allen. (Bull. X, pp. 249-298.)

Descriptions of Three New Forms of Pocket Mice from the Mexican Border of the United States. By Edgar A. Mearns. (Bull. X, pp. 299-302.)

A Study of the Vertebrate Fauna of the Hudson Highlands, with observations on the Mollusca, Crustacea, Lepidoptera, and Flora of the Region. By Edgar A. Mearns. (Bull. X, pp. 303-352.)

Nomenclatorial Notes on Certain North American Mammals. By J. A. Allen. (Bull. X, pp. 449-461.)

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

A Complete Skeleton of *Teleoceras fossiger*. Notes upon the Growth and Sexual Characters of this Species. By Henry Fairfield Osborn. (Bull. X, pp. 51-61, pll. iv and iva.)

A Complete Skeleton of *Coryphodon radians*. Notes upon the Locomotion of this Animal. By Henry Fairfield Osborn. (Bull. X, pp. 81-91, pl. x, with 2 text figures.)

The Extinct Camelidæ of North America and Some Associated Forms. By J. L. Wortman, M.D. (Bull. X, pp. 93-142, pl. xi, with 23 text figures.)

Remounted Skeleton of *Phenacodus primævus*. Comparison with *Euprotogonia*. By Henry Fairfield Osborn. (Bull. X, pp. 159-164, pl. xii, with 4 text figures.)

Evolution of the Amphylopa. Part I. Taligrada and Pantodonta. By Henry Fairfield Osborn. (Bull. X, pp. 169-218, with 29 text figures.)

Additional Characters of the Great Herbivorous Dinosaur *Camarasaurus*. By Henry Fairfield Osborn. (Bull. X, pp. 219-233, with 13 text figures.)

The Extinct Rhinoceroses. By Henry Fairfield Osborn. (Mem. I, pp. 75-164, pll. xiiia-xx, with 49 text figures.)

DEPARTMENT OF ANTHROPOLOGY.

The Huichol Indians of Mexico. By Carl Lumholtz. (Bull. X, pp. 1-14, pll. i and ii, with 1 text figure.)

Marked Human Bones from a Prehistoric Tarasco Indian Burial Place in the State of Michoacan, Mexico. By Carl Lumholtz and Aleš Hrdlička. (Bull. X, pp. 61-79, pll. v-ix.)

Facial Paintings of the Indians of Northern British Columbia. By Franz Boas. (Mem. II, pp. 1-24, pll. i-vi.)

The Mythology of the Bella Coola Indians. By Franz Boas. (Mem. II, pp. 25-127, pll. vii-xii.)

DEPARTMENT OF ENTOMOLOGY.

Revision of the Species *Euchloë* inhabiting America, north of Mexico. By William Beutenmüller. (Bull. X, pp. 235-248, pll. xiii and xiv.)

Descriptive Catalogue of the Bombycine Moths found within fifty miles of New York City. By William Beutenmüller. (Bull. X, pp. 353-448, pll. xv-xxiii.)

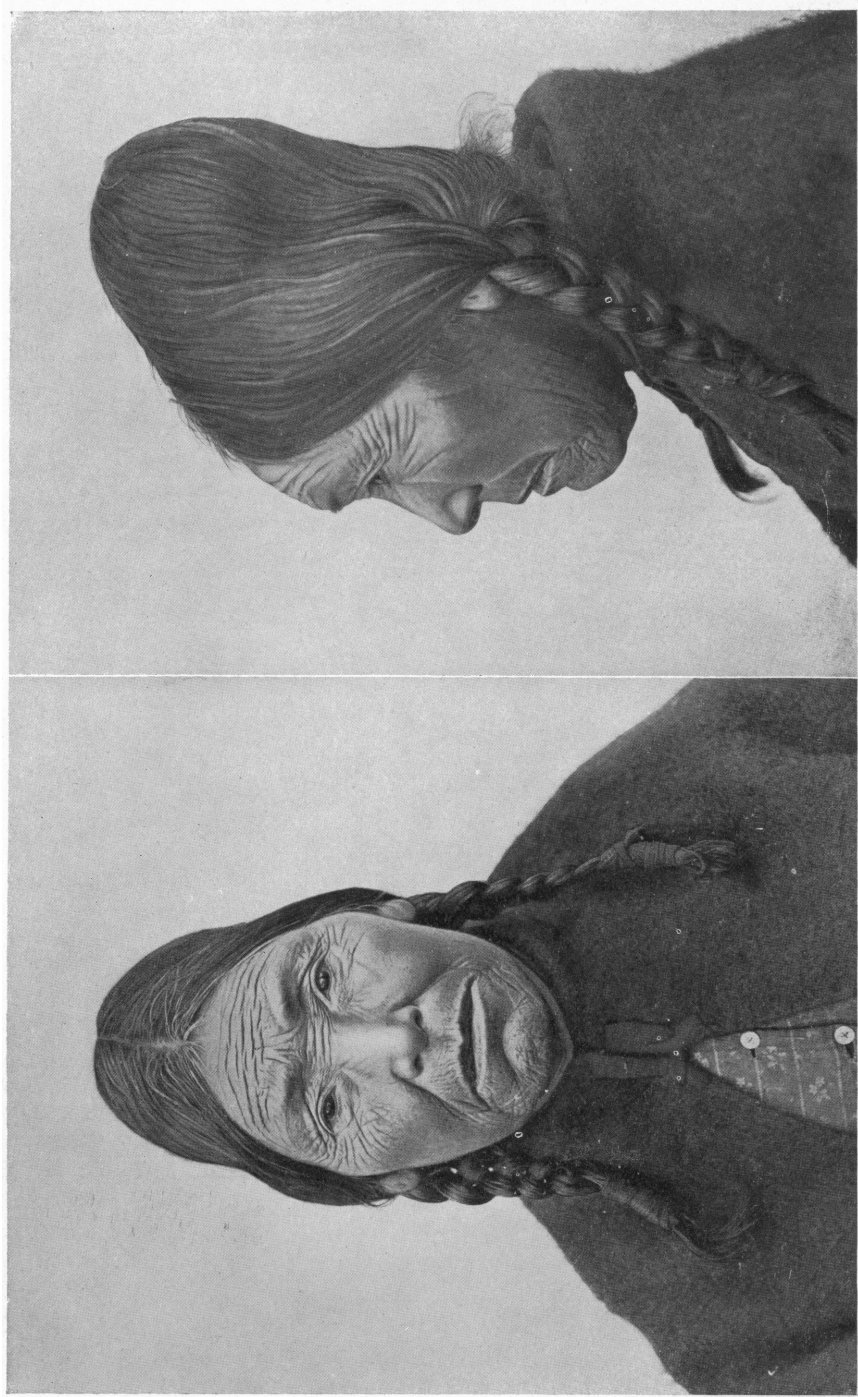
Reference was made in my preceding report to the number of papers, the publication of which was deferred until 1898 for lack of money. Most of these have now been published, for which purpose an additional appropriation was made this year. The list of articles proposed for publication in 1899 will require more than double the amount expended in 1898, and I regret to be compelled to disallow a large proportion of the amount, owing to lack of funds.

EXCHANGE OF DUPLICATE MATERIAL.—The exchange of duplicate material has been stimulated through correspondence with foreign museums. Many of the smaller institutions abroad have been brought into relation with this Museum, and the system of exchanges will be further extended during the coming year.

The exchanges made by the Department of Vertebrate Zoölogy have been mainly with museums in this country; those made by the Departments of Anthropology and Vertebrate Palæontology have been with prominent foreign museums. In each case this Institution has acquired very desirable material.

PHOTOGRAPHY.—The use of photographs in illustrating the collections has increased. In some instances, they show the natural surroundings of the place whence the specimens were

DEPARTMENT OF ANTHROPOLOGY.



KOSIMO WOMAN, SHOWING ARTIFICIAL DEFORMATION OF HEAD. JESUP NORTH PACIFIC EXPEDITION.

excavated, and in other cases the objects in position before their removal.

The field parties of the Jesup North Pacific Expedition ; the expeditions to Mexico under Mr. M. H. Saville and Dr. Carl Lumholtz ; and of the Department of Vertebrate Palæontology in the West have all made liberal use of the camera. Some of the negatives are utilized in the preparation of enlarged transparencies, for display in the windows of the exhibition halls.

USE OF COLLECTIONS.—A very noticeable increase is observed in the number of teachers who visit the halls, accompanied by their classes, and the more general use of the collections by students and scientists. The collections of woods and building-stones are utilized by builders, mechanics, and architects for comparison and study to a greater extent than before.

INCOME.—The increase of our Annual Membership is not commensurate with the growth of the city, comprising as it does only 716 members for the current year. It is from this source that the Museum receives a portion of its revenue, and as the income is devoted to the purchase of specimens to enrich the collections, it is hoped that more of our citizens will become members, either by the annual payment of \$10, or by a subscription of \$100 as a Life Member. If each Annual Subscriber would take an interest in securing one additional member, the results would be very gratifying.

As will be seen in the Treasurer's report, the income for the year has been insufficient to meet the current expenses of the Museum.

There is a great need, not only for an increase in the annual appropriation by the city for the cost of maintenance, but the invested fund should also be augmented to provide the means for obtaining new collections and specimens. The Endowment Fund amounts to \$362,000, giving a yearly income of \$18,100.

A large portion of this income is pledged for payment on important collections, which in its early days the Museum had to secure. We need largely increased receipts from this source, and I hope, now that the Museum has been firmly established as one of the great attractions of our city, and one of its most useful institutions for the welfare and education of its people, that this appeal for aid will not pass unheeded.

Our hearty thanks are due to the officials of our city, who have coöperated heartily with the Museum in all that relates to the work of the Trustees.

It is also a pleasure to record, on behalf of my associates and myself, our appreciation of the efficient service rendered during the year by the staff of the Museum.

MORRIS K. JESUP,
President.

MAINTENANCE.

RECEIPTS.

Department of Parks.....	\$ 95,000 02
Cash Deficit.....	11,354 46

\$106,354 48

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

Correct.—JOSEPH W. EDWARDS, *Auditor, March 16, 1899.*

RECAPITULATION.

CASH ACCOUNT.

Maintenance Account, Cash Deficit.....	\$11,354 46
Endowment " " Surplus.....	7,473 56
Net Cash Deficit.....	\$ 3,880 90
Due for Account of Overdrafts.....	15,000 00
Gross Cash Deficit for the year 1898.....	\$18,880 90

in account with CHARLES LANIER, TREASURER.

MAINTENANCE.

DISBURSEMENTS.

Expressage	\$ 920 38
Labor	38,898 79
Printing	51 90
General Expenses	2,050 22
Postage	297 00
Repairs	3,326 97
Coal	4,701 81
Labels	2,070 68
Stationery	706 73
Interest on "Dr." balances	125 81
Annual Report	575 00
Interest on Special Loan	482 40
Supplies	4,128 58
Salary	46,137 03
Fixtures	1,881 18
	<hr/>
	\$106,354 48
	<hr/>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *Dec. 31, 1898.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

Cash on hand, Jan. 1, 1898.....	\$	3,192	06
Freight Rebate.....		102	40
Guides.....		18	00
Life Members:			
Joseph Loth.....	\$	100	00
Bernard G. Gunther.....		100	00
Banyer Clarkson.....		100	00
Henry H. Cook.....		100	00
John G. Moore.....		100	00
James B. M. Grosvenor.....		100	00
Frederick Billings.....		100	00
Mrs. Wm. H. Macy, Jr.....		100	00
Samuel R. Betts.....		100	00
Francis Lynde Stetson.....		100	00
Morris K. Jesup—Mexican Antiquities.....		200	00
" " —Jesup Collection N. A. Forestry.....		3,306	30
Admission Fees.....		1,036	00
Annual Members.....		6,950	00
Patrons:			
H. O. Havemeyer.....	\$1,000	00	
A. D. Juilliard.....	1,000	00	2,000 00
Henry F. Osborn—Department of Vertebrate Palæontology.....		2,126	89
Collecting Permits.....		30	00
State Superintendent of Public Instruction.....		12,000	00
Special Loan:			
James M. Constable.....	\$9,000	00	
Morris K. Jesup.....	9,000	00	18,000 00
Special Loan, Acc't of Overdrafts.....		15,000	00
B. T. B. & F. E. Hyde, Jr.—Hyde Expedition.....		1,050	00
Mexican Expedition refund.....		348	73
Interest on Invested Funds.....		18,100	00
Morris K. Jesup—Jesup North Pacific Expedition.....		11,241	09
Frederick E. Hyde—Department of Anthropology.....		900	00
R. P. Lounsbury—Department of Vertebrate Palæontology.....		50	00
Jacob H. Schiff—Department of Anthropology.....		500	00
Matilda W. Bruce—Minerals.....		250	00
James M. Constable—Constable Expedition Northwest Territory..		1,200	00
		<u>\$98,601</u>	<u>47</u>

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

Correct.—JOSEPH W. EDWARDS, *Auditor, March 16, 1899.*

NEW YORK, *Dec. 31, 1898.*

¹ Contributions from Morris K. Jesup for the North Pacific Expedition:



CAST OF A SCULPTURED STONE, RUINS OF QUIRIGUA, GUATEMALA. GIFT OF THE DUKE OF LOUBAT.

LIST OF ACCESSIONS, 1898.

LIBRARY.

DONATIONS.

	Volumes	Parts and Numbers	Pamphlets
Albert I ^{er} , Prince Souverain de Monaco.....		1	
Prof. J. A. Allen, New York City.....			132
James Angus, New York City.....	4	15	
S. P. Avery, New York City.....	3	9	
E. J. Bacon, London, England.....			1
O. Bangs, Boston, Mass.....			17
Miss E. Benjamin, New York City.....		62	
Chas. E. Bessey, Salem, Mass.....			1
William Beutenmüller, New York City.....			27
H. Bolton, Manchester, England.....	1		
George H. Brown, New York City.....	25		
Lawrence Bruner, Lincoln, Nebraska.....	1		
F. J. R. Carulla, Derby, England.....			5
T. C. Chamberlin, Indiana.....			1
Rev. W. Colenso, Napier, N. Z.....	1		
O. Davie & Company, Columbus, Ohio.....	1		
S. D. Dill, New York City.....			6
Daniel Draper, New York City.....	1		
C. Eickenmeyer, New York City.....			1
D. G. Elliot, Chicago, Ill.....			1
R. S. Tarr, Ithaca, N. Y.....			1
Albert Federico, Santiago de Chile.....		2	
B. E. Fernow, Washington, D. C.....			1
Hon. R. P. Flower, New York City.....	5		
Dr. Wilhelm Fresenius, Wiesbaden, Germany.....			19
A. S. Gatschet, Washington, D. C.....			2
F. S. Palmer, Berkeley, Cal.....			1
Louis Pelatan, N. P.....			1
George H. Pepper, New York City.....	28		
Mrs. M. Petersen, New York City.....	20		
Hon. Lemuel E. Quigg, New York City.....	16		
John Rowley, New York City.....	1		
W. R. Shaw, Stanford, Cal.....			1
Harlan I. Smith, New York City.....			2

	Volumes	Parts and Numbers	Pamphlets
Miss Harriet L. Sniffin, New York City.....	14	16	20
Sir William Turner, Edinburgh, Scotland.....			20
J. G. y Villa, Milano, Italy.....	1		
Joseph Wiener, M.D., New York City.....	9		5
J. H. Winsor, New York City.....		43	
Miss Lucy S. Woodward, New York City.....		16	
William A. Woodward, New York City.....	1	7	35
Southern University, Greensboro, Alabama.....	1		
Pasadena Academy of Sciences, Cal.....		3	
Central Experiment Farm, Ottawa, Canada.....		4	
Department of Marine and Fisheries, Ottawa, Canada.....	2		
Government Printing Bureau, Ottawa, Canada.....	18	21	3
Ontario Agricultural College and Experiment Farm, Toronto..	2	4	
“ Department of Agriculture, Toronto.....	18	1	1
Department of Agriculture and Immigration, Winnipeg.....		1	
Colorado State Agricultural College, Fort Collins.....	1	2	
Yale University, New Haven, Conn.....		1	
Florida Agricultural Experiment Station, Jacksonville.....		7	
Hon. Charles Lewis Guy, New York City.....	224	252	
Dr. A. Hrdlička, New York City.....			1
Arthur C. James, N. Y.....			3
Chas. Janet, Beauvais, France.....			4
Morris K. Jesup, New York City.....	31	37	
Dr. F. Kamieniecki, Russia.....			1
Wilbur C. Knight, Laramie, Wyoming.....			1
George F. Kunz, New York City.....			2
Miss Harriet L. Lagowitz, New York City.....	4		
C. G. Lloyd, Cincinnati, Ohio.....			2
Duke of Loubat, New York City.....	69	54	
“ “ “ Albums of Photographs.....	12		
“ “ “ Photographs.....		61	
“ In Memory of Jules Marcou,” the gift of his heirs, Dr. Philippe and John B. Marcou.....	3000	5000	5000
Also a large and valuable Collection of Maps.....			1200
H. C. Mercer, Philadelphia, Pa.....	1		3
M. L. Miller, Chicago, Ill.....			1
W. Miller, Grand Rapids, Mich.....			1
C. B. Moore, Philadelphia, Pa.....	1		
Hon. Levi P. Morton, New York City.....	7		
Mandeville Mower, New York City.....			4
Munn & Co., New York City.....	1	25	
M. de Nadaillac, Paris, France.....			1
Felix F. Outres, S. A.....	1		1
Sante Fé Route, Chicago, Ill.....	5		
Illinois Board of World's Fair Commissioners, Springfield....	1		
“ Horticultural Board of Control, Savoy.....	1		
Rose Polytechnic Institute, Terre Haute, Indiana.....			1
Board of State Charities of Indiana, Indianapolis.....	1	36	
Iowa Board of Railroad Commissioners, Des Moines.....	1		2
“ State University, Iowa City.....		2	
Kansas Academy of Science, Topeka.....	1		
Kentucky Agricultural Experiment Station, Frankfort.....		9	

	Volumes	Parts and Numbers	Pamphlets
Maryland Agricultural College, College Park.....		2	
“ “ Experiment Station, College Park.....	I	5	
Massachusetts Horticultural Society, Boston.....	I		
Harvard Astrophysical Conference.....		1	
The Newberry Library, Springfield, Mass.....		2	
Wellesley College, Wellesley, Mass.....	2		
Worcester Polytechnic Institute, Mass.....			2
Mexican Expedition. Am. Mus. Nat. Hist.....	50	14	42
Michigan Ornithological Club, Grand Rapids.....		4	
“ Bureau of Labor and Industrial Statistics, Lansing..	I		
“ State Treasurer, Lansing.....	I		
University of Minnesota State Agricultural Experiment Station, Minneapolis.....		3	
Mississippi Agricultural and Mechanical College, Jackson....	I		I
Helena Public Library, Montana.....		2	
Montana Bureau of Agriculture, Labor, and Industry, Helena..		1	
Nevada State University, Reno.....		3	
New Jersey Agricultural College Experiment Station, New Brunswick.....		10	
New Jersey Bureau of Statistics, Labor, and Industries		I	
“ State Microscopical Society, New Brunswick.....		I	
Vineland Historical and Antiquarian Society, N. J.....		I	
Bureau of Statistics and Labor, State of New York, Albany..	2	10	
The Agricultural Society, New York, Albany.....	I		
Grosvenor Free Public Library, Buffalo.....		8	
New York Agricultural Experiment Station, Geneva.....		129	
Western New York Horticultural Society, Rochester	I		
Lake Mohawk Conference on International Arbitration, N. Y..	I		
American Society for Prevention of Cruelty to Animals, New York City.....	I	10	
Harlem Library, New York City.....	I		
Merchants' Association, New York City.....		I	
Monumental Records Association, New York City.....		3	
National Academy of Design, New York City			2
New York Entomological Society, New York City... ..			I
“ “ Post-Graduate Medical School, New York City....	I	2	
“ “ Scientific Alliance, New York City.....	I		I
Roosevelt Hospital, New York City.....	I		
Scoville and Adams Co., of New York City.....		4	
Teachers College, New York City.....			I
The Auk, New York City.....	I	I	
The Osprey Company, New York City.....		5	
Biltmore Herbarium, N. C.....			I
Cincinnati Museum Association, Ohio		I	I
Lloyd Mycological Museum, Cincinnati, Ohio.....	I		
University of Cincinnati, Ohio.....	I		
Hamilton College, Clinton, Ohio.....		2	
Agricultural Experiment Station, Columbus, Ohio.....		11	
Miami University, Oxford, Ohio.....	I		
Fairmount Park Art Association, Philadelphia, Pa.....	I		
Girard College, Philadelphia, Pa.....	I		
Rhode Island State Board of Agriculture, Providence.....		I	

	Volumes	Parts and Numbers	Pamphlets
University of Tennessee, Nashville.....		1	
Virginia Agricultural and Mechanical College, Blacksburg.....		4	
University of Virginia, Charlottesville.....	I		
Hampton Normal and Agricultural Institute, West Virginia...		9	
Middlebury College, Vt.....	I		
Mountain Club, Cape Town, Africa.....		1	
Royal Asiatic Society, Shanghai, China, Asia.....		1	
Deutsche Gesellschaft für Natur- und Völkerkunde Ostasiens, Tokio, Asia.....	I		
Tōkyō Geographical Society, Tōkyō, Japan, Asia.....		5	
Japan Weekly Gazette.....		9	
Government Geologist, Adelaide, Australia.....	I		
Woods and Forests Department, Adelaide, Australia.....		2	
Queensland Museum, Brisbane, Australia.....		2	
Government Statistician and Registrar-General, Hobart, Aus- tralia.....	I		
Minister of Mines, Tasmania, Australia.....		4	
Victoria Field Naturalists' Club, Australia.....		1	
New Zealand Institute, Wellington, Australia.....	I		
R. Società Agraria di Gorizia, Austria-Hungary.....		12	I
Société de Médecine Scientifique et d'Hygiène, Karkow, Austria-Hungary.....	I		
Museum Francisco Carolinum in Linz, Austria-Hungary.....	I		
Académie di Scienze Fisiche e Mathemat, Roveredo, Austria- Hungary.....		3	
Wiener Thierschutz-Verein, Wien (Vienna), Austria-Hungary..		8	
L'Académie Royale de Belgique, Bruxelles, Belgium.....			I
L'École Provinciale d'Ind. et d. Miner. d. Hainaut, Liège, Belgium.....	I		
Monthly Arabic Journal of Science, Literature, and Art, Cairo, Egypt.....	I		
Athenæum, London, England.....	I		
Birmingham and Midland Institute, England.....			I
Leeds Philosophical and Literary Society, England.....	I		
L'Intermédiaire des Biologists, Paris, France.....		2	
Société des Sciences Médicales de Gannat, Commentry, France.		2	
Société d'Horticulture et Viticulture de la Côte d'Or, Dijon, France.....		2	
Société d'Horticulture de Fontenay Le Comte, France.....		4	
Königliche Friedrich-Wilhelms-Universität, Berlin, Germany..	I		
Zoological Collection zu Berlin, Germany.....			I
Zoologische Sammlung zu Berlin, Germany.....	I	I	I
Niederrheinische Gesellschaft für Natur- und Heilkunde, Bonn, Germany.....		12	
Westpreussische Fischerei-Verein, Danzig, Germany.....		7	
Naturwissenschaftliche Gesellschaft "Isis" in Dresden, Ger- many.....	I		
Hamburgische Wissenschaft Anstalte, Hamburg, Germany....		3	
Verein für Heil- und Naturkunde zu Pozsony, Plauen, Germany..		1	
Cawnpore Experimental Farm, Allahabad, India.....		1	
Agricultural and Horticultural Society of India, Calcutta, India..	I		
Botanical Survey of India, Calcutta.....		3	

	Volumes	Parts and Numbers	Pamphlets
Government of India, Calcutta, India.....	I	97	3
Agricultural Statistics of Ireland, Dublin.....	I		
R. Academia di Scienze, Fisiche, Matematici (di Napoli), Italy.		3	
Direccion General de Estadistica, Mexico.....	4		
Instruccion Pública Mexicana.		17	
Direktøren for det Civile Veterinærvesen, Kristiania, Norway..	I		
Bernice Pauahi Bishop Museum, Honolulu, Sandwich Islands..		I	
Hawaiian Minister of the Interior, " " " " ..		9	
Edinburgh University, Scotland.....	I		
Sociedad Científica Argentina, Buenos Aires, South America...	I	6	
Instituto Agronomico d. Estado d. São Paulo, Brazil, South America.		I	
Direccion de Estadistica General, Montevideo, Uruguay, South America	2	I	
Agricultural Society, Barbadoes, W. I.		I	
Dodd's Experimental Field Reformatory, Barbadoes, W. I....	I		
Real Academia de Ciencias Médicas, Fisicas, y Nat. d. l. Habana, W. I.....		4	

✓ MRS. WM. MOORE CARSON, New York City.

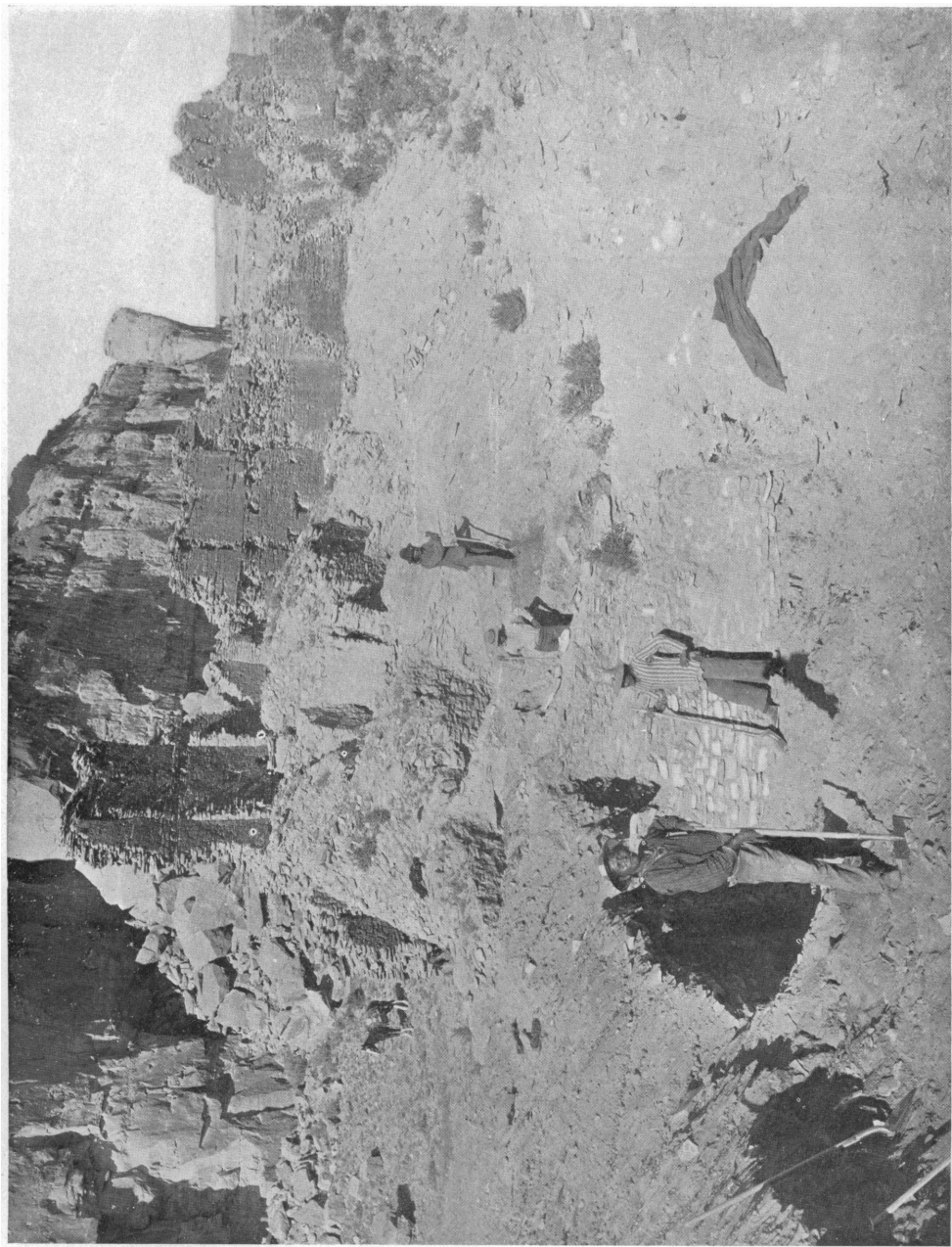
An oil painting by John Woodhouse Audubon,—a deer hunt entitled 'The Last Resort.'

EXCHANGES.

	Volumes	Parts and Numbers	Pamphlets
Africa. Académie d'Hippone-Société de Recherche Scientifique et d'Acclimatation, Bone.....		1	1
Colonial Secretary's Office, Cape Town	1		
South African Museum, Cape Town.....		2	
Institut Egyptien, Le Cairo, Egypt.....		5	
California. University of California, Berkeley.....	1	1	
Library, Leland Stanford Jr. University, Palo Alto.....	2	3	3
Academy of Sciences, San Francisco.....		13	
Colorado. Scientific Society, Denver.....	1	4	3
University of Denver.....	1		
Connecticut. State Board of Agriculture, Hartford.....	1		
C. E. Beecher, New Haven.....			1
Georgia. Geological Survey, Atlanta.....	3		
Illinois. Field Columbian Museum, Chicago.....		4	
J. P. Iddings, Chicago			1
University of Chicago.....		1	
State Board of Agriculture, Springfield.....	1	8	
" Laboratory of Natural History, Urbana.....		3	
Indiana. Academy of Science, Indianapolis.....	4		
Geological Survey, Indianapolis.....	1		
Iowa. Academy of Sciences, Des Moines.....	1		
Geological Survey, Des Moines.....	1		
Historical Society of Iowa, Des Moines.....	1	2	
Historical Department of Iowa, Iowa City.....	3		
State Historical Society, Iowa City.....		3	
Kansas. University, Lawrence.....	9	8	
State Agricultural College, Manhattan.....	1	16	
Kentucky. Polytechnic Society, Louisville.....	1		
Louisiana. State Experimental Agricultural Station, Baton Rouge		1	
State University and A. and M. College, Baton Rouge...		1	1
Tulane University, New Orleans.....	2		1
Maryland. Geological Survey, Baltimore.....	1		
Johns Hopkins University, "		4	
P. R. Uhler, Baltimore			1
Massachusetts. Agricultural College, Amherst		4	
American Academy of Arts and Sciences, Boston.....		19	
Appalachian Mountain Club, Boston.....	1	1	
Boston Public Library.....		13	
" Society of Natural History.....		10	
State Board of Agriculture, Boston	1		
" Library, Boston.....	7	3	2
Walter Faxon, Cambridge.....			3
Harvard College, Astronomical Observatory, Cambridge ..		3	
Museum of Comparative Zoölogy, Cambridge.....		9	

	Volumes	Parts and Numbers	Pamphlets
Massachusetts— <i>Continued.</i>			
Peabody Museum of American Archæology and Ethnology, Cambridge.....	3	3	1
Bussey Institution, Jamaica Plain.....		1	
Tufts College, Medford.....		1	
Essex Institute, Salem.....	1	6	
E. S. Morse, Salem.....			2
City Library Association, Springfield.....		8	
Worcester Society of Antiquity.....		1	1
Michigan. State Agricultural College Experiment Station, Agricultural College.....		15	
State Board of Agriculture, Agricultural College.....	1		
Minnesota. Historical Society, St. Paul.....		1	
Missouri. University of the State, Columbia.....	1		
State Horticultural Society, Jefferson City.....	1		
St. Louis Academy of Science.....		7	
Missouri Botanical Garden, St. Louis.....	1		
Public Library, St. Louis.....		17	
Nebraska. University, Lincoln.....	1		
New Jersey. Geological Survey, Trenton.....	2		1
New York. John M. Clarke, Albany.....			3
C. H. Peck, Albany.....	1		
State Geological Survey, Albany.....	1		
" Museum, Albany.....	1		
University of State, Albany.....	7	10	
F. H. Lattin, Albion.....	1	1	
Museum Publishing Company, Albion.....		11	
Buffalo Society of Natural History, Buffalo.....		2	
Cornell University, Ithaca.....	1	15	
Geological Society of America, Rochester.....	1		
Onondaga Historical Association, Syracuse.....		3	
L. I. Historical Society, Brooklyn.....			3
Natural Science Association, New Brighton, Staten Island..		9	
American Chemical Society, New York City.....	1		
" Geographical Society, New York City.....	1	1	
" Institute of Mining Engineers, New York City..	4		67
" Numismatic and Archæological Society, New York City.....		1	
Archæological Institute of America, New York City.....		8	
Columbia University, New York City.....	5		
Lemcke and Buechner, New York City.....	7		
Mercantile Library, New York City.....	1	1	
Metropolitan Museum of Art, New York City.....		1	
New York Academy of Medicine, New York City.....			1
" " " Sciences, ".....	2	2	
" " Botanical Garden, New York City.....		1	
" " Microscopical Society, New York City.....		1	
" " Public Library, New York City.....	1		
" " Zoölogical Society, New York City.....		1	
Torrey Botanical Club, New York City.....	1		
North Carolina. Agricultural Experiment Station, Raleigh....		14	
H. H. and C. S. Brimley, Raleigh.....		28	

	Volumes	Parts and Numbers	Pamph- lets
North Carolina— <i>Continued.</i>			
N. C. Geological Survey, Raleigh		10	
E. Mitchell Scientific Society, Raleigh		2	
Ohio. E. W. Claypole, Akron			1
Cincinnati Society of Natural History		1	
Denison University, Granville	1	4	
Oberlin College		2	
Pennsylvania. Department of Agriculture, Harrisburg		10	
Dr. G. Brinton, Philadelphia			14
Benjamin S. Lyman, Philadelphia			3
Academy of Natural Sciences, Philadelphia	1	1	
American Philosophical Society, "		2	
Geographical Club of Philadelphia, "	1	1	1
Numismatic and Antiquarian Society, Philadelphia		1	
University of Pennsylvania, Philadelphia	1		3
Wagner Free Institute of Science, Philadelphia		1	
Zoological Society of Philadelphia, "		1	
Wyoming Historical and Geological Society, Wilkesbarre ..		1	
University of Wyoming, Laramie		4	
Rhode Island. A. S. Packard, Providence			1
Redwood Library and Athenæum, Newport		1	
Texas. Academy of Science, Austin		1	
Vermont. Fletcher Free Library, Burlington			1
University of Vermont and State Agricultural College, Burlington	1	4	
Middlebury College			1
State Agricultural Experiment Station, Montpelier		3	
State Geologist, Rutland	1		
Washington, D. C. Department of Agriculture	1	115	142
Department of the Interior	12	10	1
" " State		12	
Smithsonian Institution	10	2	1
Superintendent of Documents		11	
Treasury Department	5		
U. S. Civil Service Commissioner	1		
War Department	1		
Wisconsin. State Historical Society, Madison	5		
Academy of Sciences, Arts, and Letters, Madison	1		
Public Museum, Milwaukee	1		
Canada. Le Naturaliste Canadien, Chicoutimi	1		
Fruit Growers' Association, Grimsby	1		
Nova Scotian Institute of Natural Science, Halifax		1	
Entomological Society of Ontario, London	1		
Natural History Society of Montreal		3	
Numismatic and Antiquarian Society of Montreal		2	
Geological and Natural History Survey of Canada, Ottawa ..	1	1	
Ottawa Field Naturalists' Club	1	1	
Royal Society of Canada, Ottawa	1		
New Brunswick Natural History Society, St. John	1		
Canadian Institute, Toronto		14	
Manitoba Historical and Scientific Society, Winnipeg		3	
Costa Rica. Museo Nacional, San José	1		



EXPLORATION OF PREHISTORIC RUINS, "PUEBLO BONITO." HYDE EXPEDITION, 1896-98.

	Volumes	Parts and Numbers	Pamphlets
Mexico. Biblioteca de la Secretario de Fomento, Mexico.....	1	21	
Sociedad Cientifica "Antonio Alzate," Mexico.....		3	
" Mexicana d'Histoire Natural, "		3	
West Indies. Antigua Branch Leeward Islands Agricultural Society.....	1		
Institute of Jamaica, Kingston	1	9	
F. L. Guppy, Trinidad, Port-of-Spain			1
Agricultural Society, Trinidad, Port-of-Spain		3	
South America. Museo Nacional de Buenos-Aires.....	2	4	24
Bibliotheca Nacional, Rio de Janeiro, Brazil	16		10
Direccion General de Estadistica, La Plata, Brazil.....	2	3	
Museo de la Plata, Brazil.....	1	1	
Société Scientifique du Chili, Santiago.....		6	
Museo Nacional de Montevideo, Uruguay.....		2	
Museu Paulista, S. Paulo.....	2		
Asia. Royal Asiatic Society (Bombay Branch).....		1	
Asiatic Society of Bengal, Calcutta, India.....	1	14	
Indian Museum, Calcutta, India.....	2		
Madras Government Museum, India.....		1	
Imperial University, Tokio, Japan.....		1	
Koninklijke Natuurkundige Vereenig. in Ned - India, Batavia, Java	2		
Australasia. Australian Museum, Sydney.....	1	5	
Department of Mines and Agriculture, Sydney.....	1	1	2
Geological Survey, New South Wales, Sydney.....		1	
Government Statistician's Office, Sydney.....	5		
Linnean Society of New South Wales, Sydney.....		5	
Royal Society of New South Wales, Sydney.....	1	2	
New Zealand Department of Agriculture, Wellington.....	1	14	
A. G. Maitland, Brisbane, Queensland.....	1		
Robt. L. Jack, " "			2
Geological Survey, " "	1	1	
Royal Society, " "	1		
" " of Tasmania, Hobarton.....		6	1
" " Victoria, Melbourne		2	
" Geographical Society, "	1	6	
Field Naturalists' Club, Victoria.....		5	
Geological Survey Western Australia, Perth.....	1	2	
Austria-Hungary. Südslavische Akademie der Wiss. und Künste, Agram.....	3		
Der Ausschuss des Museums Ver. f. Vorarlberg, Bregenz..	1		
K. Magyarhoni Földtani Tarsulat, Budapest.....		11	
Magyar Nemzeti Museum, Budapest.....	1		
Société Royal Hongroise d. Sciences Naturelles, Budapest..	5	3	
Historischer Verein für Steiermark, Gratz.....		1	
Siebenbürgischer Verein f. Naturwissenschaft, Hermanstadt.	1		
Verein f. Siebenbürgische Landeskunde, Hermanstadt.....		3	
Ungar. Karpathen-Verein, Iglo	1		
Società Adriatica di Scienze Naturali, Trieste, Illyria	3		
L'Académie des Sciences de Cracovie, Poland.....	1	11	
K. Böhm. Gesellschaft d. Wissenschaften, Prag	6		
Verein f. Geschichte d. Deutschen in Böhmen, Prag.....		4	

	Volumes	Parts and Numbers	Pamph- lets
<i>Austria-Hungary—Continued.</i>			
K. K. Ackerbau-Ministerium, Vienna.....	1		
K. K. Gradmessungs-Bureau, ".....		1	
K. K. Gartenbau-Gesellschaft, ".....		12	
Section f. Naturkunde d. Öster. Tourist-Club, Vienna....	1		
Verein zur Verbreitung naturwissenschaft. Kenntnisse, Vienna.....	1		
Kaiserliche Akademie der Wissenschaften, Vienna.....	2	5	
K. K. Geologische Reichsanstalt, Vienna.....		18	
K. K. Naturhistorisches Hof-Museum, Vienna.....	1		
K. K. Zoologisch-Botanische Gesellschaft, Vienna.....	1		
Naturwiss. Ver. d. Trencsiner Comitates, Trencsin.....	2		
Belgium. Ch. F. Dubois, Brussels.....	4		
Société Royale de Botanique d. Belgique, Brussels.....	1		
" " Linn. d. Bruxelles.....		4	
" " Malacologique d. Belgique, Brussels.....	4	7	
" " Géologique de Belgique, Liège.....		4	
" " Royale des Sciences, Liège.....	1		
" " Scientifique de Bruxelles, Louvain.....	1		
Denmark. Kongelige Danske Videnskabernes Selskab, Copen- hagen.....		6	
France. Société d'Emulation, Abbeville.....	3	1	
Société des Études, Lit. Scientif. et Artist. d. Lot, Cahors.		1	
" " Nationale d. Sciences Nat. d. Cherbourg.....	1		
Union Géographique du Nord d. l. France, Douai.....		1	
Société Libre d'Ag. Science, Artes et Belles Lettres d. l'Eure, Evreux.....	1		
Société d'Horticulture de Fontenay Le-Comte.....		2	
L'Université, Laval.....	2		1
Museum d'Histoire Naturelle de Lyon.....	28		2
Faculté des Sciences de Marseilles.....		4	
Société des Sciences de L'Ouest de la France, Nantes....		5	
D. P. Ehlert, Paris.....			1
Feuille des Jeunes Naturalistes, Paris.....		14	
Min. d. l'Instruction Pub. d. B. A. et d. Cultes, Paris....	1	1	
Ministère des Travaux Publics, Paris.....		9	
Bibliothèque de Museum d'Histoire Naturelle, Paris....		6	
Société de Géographie, Paris.....	1		
" " Entomologique de France, Paris.....	2		
" " Géologique de France, Paris.....		25	
" " Scientifique et Station Zoologique d'Arcachon, Paris.....	1		
Société Zoologique de France, Paris.....	1		
Académie des Sciences, Ins. et Belles Lettres, Toulouse..	1		
Germany. Dr. Hermann Fürst, Berlin.....	1		
R. Friedländer und Sohn, Berlin.....		24	
Ges. Anthropologie, Ethnologie u. Urgeschichte, Berlin...		5	
Gesellschaft für Erdkunde, Berlin.....		11	
Deutsche Geologische Gesellschaft, Berlin.....		4	1
Naturhistorischer Ver. d. preussischen Rheinlande, Bonn..	10	2	
Naturwissenschaftlicher Verein, Bremen.....		2	
Verein f. Schlesische Insektenkunde, Breslau.....	1		

	Volumes	Parts and Numbers	Pamph- lets
<i>Germany—Continued.</i>			
Verein f. Naturkunde zu Cassel	1		
Naturforschende Gesellschaft in Emden.....	2		
Naturwissenschaftlicher Verein d. Reg.-Bez., Frankfurt...	1	9	
Senckenbergische Naturforschende Gesellschaft, "...	2	5	
Naturforschende Gesellschaft, Freiburg.....		3	
Société Fribourgeoise d. Sciences Naturelles, Freiburg...		2	
Naturforschende Gesellschaft, Görlitz.....	1		
Oberlausitzer Gesellschaft d. Wissenschaften, Görlitz.....		3	
K. Leop.-Car. Deutsche Akademie d. Naturforscher, Halle..		3	
Naturwissenschaftlicher Verein, Hamburg.....	1		
Zoologischer Garten, Hamburg	1		
Bibliothek des Polytechnicums, Karlsruhe.....			6
Königliche Physikalisch-Oekonomische Gesellschaft, Kö- nigsberg.....	1		
Königlich-Sächsishe Gesellschaft d. Wissenschaften, Leip- zig.....	6		5
K. Min-Geol. u. Prähist. Museum in Dresden.....		1	
Verein für Erdkunde, Leipzig.....	18	2	
Naturwissenschaftlicher Verein, Lüneburg	1		
" " Magdeburg.....	1		
Gesellschaft zur Beförderung d. Gesammten Naturw., Marburg	1		
Königlich-Baierische Akademie d. Wissenschaften, Mün- chen.....	1	4	
Westfälischer Provinzial-Verein f. Wiss. u. Kunst, Mün- ster.....	1		
Naturhistorische Gesellschaft, Nürnberg.	1		
Naturwissenschaftlicher Verein, Osnabrück.	1		
Schweizer Entomologische Gesellschaft, Schaffhausen.....		3	
Württembergischer Verein für Handelsgeographie, Stutt- gart.....	2		
Nassauischer Verein für Naturkunde, Wiesbaden.....	1		
Königliche Universitäts Bibliothek, Würzburg			13
Schweizerische Gesellschaft f. d. gesammte Naturwiss., Zurich	1		
<i>England.</i>			
Naturalists' Society, Bristol.....		1	1
Philosophical Society, Cambridge.....	3		
Naturalists' Society, Cardiff.....	1		
Natural History Society, Hertfordshire.....		2	
Yorkshire Geological and Polytechnic Society, Leeds.....		1	
Literary and Philosophical Society, Liverpool.....		1	
Naturalists' Field Club, Liverpool.....	1		
Board of Agriculture, London.....		16	
British Museum (Natural History), London.....	2		2
Geologists' Association, London.....		3	1
Geological Society of London.....		7	1
Linnean " "		3	
Royal Colonial Institute, London.....		8	
Royal Society, London.....		20	
Wesley and Son, London.....	22		
Zoological Society, London.....		6	1

	Volumes	Parts and Numbers	Pamphlets
<i>England—Continued.</i>			
Field Nat. and Archæologists' Society, Manchester.....	1		
Geological Society, Manchester.....		16	
Geographical Society, Manchester.....		6	
Museum, Owens College, Manchester.....	1	6	
Literary and Philosophical, ".....	1		
Marine Biological Association, United Kingdom, Plymouth.	3	6	
Zoölogical Museum, Tring.....		4	
Ireland. Flax Supply Association, Belfast.....		2	3
Naturalists' Field Club, Belfast.....		1	
Scotland. W. E. Clarke, Edinburgh.....		4	
Royal Society, Edinburgh.....	1		
Natural History Society, Glasgow.....		1	
Philosophical Society, Glasgow.....	1		
Perthshire Society of Natural Science, Perth.....		1	
Italy. R. Instituto Lombardo di Scienze e Lettere, Milano....	1	2	
R. Accademia di Science Lettere ed Arti in Rovoreto, Modena.....		1	
R. Instituto Botanico di Palermo.....		5	
Società dei Naturalisti Siciliani, Palermo.....		4	
R. Accademia dei Lincei, Roma.....		26	1
Ministero d'Agricoltura, Industria e Commercio, Roma....		1	
Musei di Zoölogia ed Anatomia, Torino.....		15	
R. Università, Torino.....	3		32
Netherlands. Koninklijke Akademie van Wetenschappen, Amsterdam.....	1	2	
Société Hollandaise des Sciences, Harlem.....		3	
Nederlandsche Dierkund. Vereeniging, Leiden.....	13	1	2
Rijks Universiteit, Leiden.....			2
Zealand Society of Sciences, Middelburg.....			3
Norway. Departementet for det Indre, Christiania.....	1	3	2
Videnskabernes Selskab, Christiania.....	2		
Museum, Stavanger.....		1	
Russia. Naturforschende Gesellschaft bei der Universität, Derpt.....	1		
Société des Sciences de Finlande, Helsingfors.....	3		
" " Naturalistes, Kiew.....		1	
" Impériale des Naturalistes, Moscow.....		4	
" des Naturalistes de la Nouvelle-Russie, Odessa....		1	
Comité Géologique de la Russie, St. Petersburg.....	1	9	
Horæ Societatis Entomologicæ, ".....	5	2	
Impérial Russian Society of Fishery and Fish, St. Petersburg.....	2		4
L'Académie Impériale des Sciences, St. Petersburg.....	2	22	
Russische - Kaiserliche Mineralogische Gesellschaft, St. Petersburg.....	1	3	1
Spain. R. Academia de Ciencias y Artes, Barcelona.....		1	
Sweden. Bureau of Geological Survey, Stockholm.....		12	
Kong. Vetenskaps och Vitterhets-Samhället, Gothenbourg.		1	
Kongl. Vitterhets Histoire och Antiquitets Akademien, Stockholm.....	17		2
Royal Swedish Academy of Sciences, Stockholm.....		15	

	Volumes	Parts and Numbers	Pamph- lets
Sweden— <i>Continued.</i>			
Lunds Universitatis Lundensis, Lund.....	I		
Société Entomologique, Stockholm.....		5	
Kongliga Universitetet Bibliotheket, Upsala.....		2	
Switzerland. Naturforschende Gesellschaft, Basel.....	I	I	
Naturforschende Gesellschaft, Bern.....	5		
“ “ Graubündens, Chur.....	I		I
Thurgauische Naturforschende Gesellschaft, Frauenfeld...		I	
Société Vaudoise des Sciences Naturelles, Lausanne.....		2	
Société Neuchateloise de Géographie, Neuchatel.....	5		
St. Gallische Naturwissenschaftliche Gesellschaft, St. Gall..	I		

PURCHASES.

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 Science. 1898.
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 Zoologischer Anzeiger. 1898.
 Zoölogist (The). 1898.

DEPARTMENT OF GEOLOGY AND MINERALOGY.

PALÆONTOLOGY AND GEOLOGY.

BY DONATION.

- ✓ FRANK ABBOTT, M.D., New York City.
2 specimens of Fossil Fish, Utah.
- ✓ S. P. AVERY, New York City. ✓
Number of Concretions (Clay Dogs), Lake Champlain.
- ✓ BARNUM BROWN.
Fossils from Kansas City, Mo., and Carbondale, Kan.
- ✓ E. CLARK, New York City. ✓
Vertebrae of *Zeuglodon*, and Shark's teeth, Charleston, S. C.
- ✓ C. EICKEMEYER, Yonkers, N. Y. ✓
2 specimens of Gum Copal, Zanzibar.
- ✓ MRS. E. O. HOVEY, New York City. ✓
Valves of *Dreissena polymorpha* L., Alexandropol, Russian Armenia.
- ✓ E. O. HOVEY, New York City. ✓
Specimens of fossils from James River Valley, Va.
- ✓ PROF. LONG, Robert College, Constantinople. ✓
Specimens of fossils from the Balta liman beds of the Bosphorus.
- ✓ F. C. NICHOLAS, New York City.
Specimens of Cretaceous fossils, U. S. Colombia.
- ✓ MRS. G. STORY, Freehold, N. J. ✓
Mould of *Calymene platys* Green, Freehold, N. J.
- ✓ R. P. WHITFIELD, New York City. ✓
Lower Helderberg fossils, Clarksville, N. Y.
- ✓ DELAWARE AND HUDSON CANAL CO. ✓
3 specimens of mud markings, flowage, etc., from near Albany, N. Y.
- ✓ W. WALLACE, New York City.
2 specimens *Favosites helderbergia* Hall, Cobleskill, N. Y.

BY EXCHANGE.

- ✓ 2 specimens of *Pirona polystylus*, from Cuatretonda, Spain.
- ✓ About 250 specimens of Upper Helderberg Corals and a few Univalves from Falls of the Ohio, and Clark Co., Ind. ✓

THROUGH MUSEUM EXPEDITIONS.

FROM RUSSIA AND ITALY, collected by Dr. E. O. Hovey :

- ✓ 2 specimens of Coral and Ostracode limestone, Alexander Bridge, Batraki, Volga River.
- ✓ 60 specimens of rocks, Ilmen and Ural Mts.
- ✓ 25 " " Caucasus Mts.
- ✓ 40 " " Russian Armenia.
- ✓ 23 " " Lipari Islands.
- ✓ 14 " of Obsidian, Pumice, etc., Lipari Is.
- ✓ 16 " " rocks, Stromboli and Strombolicchio.
- ✓ 16 " " (Devonian), Ural Mts.

MINERALOGY.

BY DONATION.

- ✓ E. L. ABBOT, New York City. ✓
 2 specimens of Fulgurites, Ustick, Whitside Co., Ill.
- ✓ A. AUERBACH & CO., Nikitovka, Russia. ✓
 5 specimens of Cinnabar, 1 specimen of Stibnite, Nikitovka, Russia.
- ✓ N. S. BERRAY, Walton, N. Y. ✓
 Specimens of Cuprite, Arizona.
- ✓ Miss M. W. BRUCE, New York City. ✓
 34 specimens of great beauty, embracing the mineral species Stilbite, Apophyllite, Heulandite, Microcline, Phacolite, Barite, Fluorite, Calcite, Celestite, Crocidolite, Stephanite, Smoky Quartz, Opalized Wood, and Galeña, from localities in England, Australia, Iceland, and the United States.
- ✓ L. CAHN, New York City. ✓
 1 specimen of Apophyllite, Paterson, N. J.; 1 specimen of Quartz and Calcite, England; 2 specimens of Endlichite, Hillsboro, N. M.
- ✓ G. L. ENGLISH & CO., New York City.
 Associated Galena, Sphalerite, and Chalcopryrite, Joplin, Mo.
- ✓ J. A. GRENZIG, Brooklyn, N. Y. ✓
 1 specimen of Pectolite on Prehnite, Woodcliff, N. J.
- ✓ A. E. HEIGHWAY, New York City. ✓
 Specimen of Corundum, Staurolite, and Rutile, from North Carolina.
- ✓ M. KWIATKOWSKY, Urals, through Dr. E. O. Hovey. ✓
 2 specimens of Malachite, Nijni Tagilsk, Urals.
- ✓ H. VAN HOEVENBERGH, New York City. ✓
 2 limonite concretions holding sand.
- ✓ J. A. MANLEY, New Brunswick, N. J. ✓
 Axinite, Roebbingite, and Rhodonite, from Franklin, N. J.
- ✓ T. R. McCARTY, New York City. ✓
 2 specimens of Pyrite, New Jersey.
- ✓ J. H. WINSER, New York City. ✓
 Specimen of Fuggerite, Le Selle, Monzoni, Tyrol.

BY EXCHANGE.

- ✓ Two specimens of Nevadite, with lustrous Sanidine, from near Leadville, Col.

THROUGH MUSEUM EXPEDITIONS.

FROM RUSSIA AND ITALY, collected by Dr. E. O. Hovey:

- ✓ 40 specimens of minerals, embracing Cinnabar, Stibnite, Cuprite, Malachite, Chrysocolla, Garnet, Sodalite, Elaeolite, Actinolite, Hornblende, Ilmenite, Vesuvianite, Chloritoid, Magnetite, Calcite, Aragonite, Tridymite, Leucite, and a large block of Augite, and Andesite perforated by lightning tubes.

BY PURCHASE.

- 9 specimens of minerals secured by Dr. E. O. Hovey, in Russia, embracing the species Malachite, Tourmaline, Orthoclase, Phenacite, Quartz, and Biotite. ✓
- 1 opalized wood section, Clover Creek, Lincoln Co., Idaho; 1 specimen of Halite, California; Quartz crystals, four phantoms, and a quartz crystal with included bubble, Kingston, N. Y.; 1 large specimen of Calcite, Barrow-in-Furness, Engl.; 1 large specimen of Pyrite Group, Piedmont, Italy.



ZAPOTECAN FUNERAL URNS FROM MOUNDS AT XOXO, MEXICO. MUSEUM EXPEDITION, 1897-98.

CONCHOLOGY.

BY DONATION.

- ✓ G. H. CHADWICK, Rochester, N. Y. —
Siphonaria reeveana Petit, New Zealand.
- ✓ PROF. E. D. COPE (deceased). ✓
 Bequest of a large collection of fresh-water shells with *Neritina*.
- ✓ T. M. FRY, New York City. ✓
 Specimens of *Unio corruscus* Gould, Lake Diaz, Fla.
- ✓ MRS. E. O. HOVEY, New York City. ✓
 69 specimens of land shells from the Caucasus, Crete, and Athens.
- ✓ DR. E. A. MEARNS, U. S. Army. (Donated in 1892.) ✓
 A varied collection of shells, embracing 65 species, and some hundreds of specimens of land, marine, and fresh-water shells, from Texas and Minnesota.
- ✓ NESMITH & CONSTANTINE CO., New York City. ✓
 Large log of *Teredo*-perforated Mahogany, from Panama.
- ✓ M. H. SAVILLE, New York City. ✓
 Specimens of *Pachycheilus*, Palenque, State of Chiapas, Mexico.
- ✓ PROF. C. H. SNOW, New York University. ✓
 16 photographs of *Teredo*, *Limnoria*, and *Pholas*.

BY EXCHANGE.

- ✓ 46 specimens, 26 species, of fresh-water shells (*Unio*, *Anodonta*, *Margaritana*) from southern rivers and streams.

THROUGH MUSEUM EXPEDITIONS.

- ✓ COLLECTED AT THE NAPLES ZOÖLOGICAL STATION, by Dr. ✓
 E. O. Hovey: ✓
 163 specimens, 34 species, in alcohol, embracing various orders.

BY PURCHASE.

- ✓ One large *Strombus goliath* Chem., from the West Indies. ✓

MARINE INVERTEBRATES.

BY DONATION.

- ✓ B. W. ANDREWS, New York City.
Velella and *Octopus*, Bermuda.
- ✓ NEW YORK AQUARIUM.
 Large specimen *Limulus polyphemus* Linn.
- ✓ BROWN BROS., Nassau, N. P., Bahamas.
 3 specimens of *Diploria cerebriiformis* E. and H., from Nassau, N. P., Bahamas.
- ✓ DR. D. B. DELAVAN, New York City.
 12 handsome specimens of Corals, including species of *Pavonia*, *Astraea*, *Gemmipora*, *Mussa*, *Galaxea*, and *Pocillopora*, from eastern seas.
- ✓ F. W. LEGGETT, New York City.
 A specimen of the sponge *Pachychalina*, from St. Kitts, W. I., and a group of *Vermetus spiratus* Phil., from Bermuda.
- ✓ C. C. MARVIN, New York City.
 One specimen of Spotted Lobster.

✓ DR. PAUL MAYER, Naples, Italy.

10 specimens of *Caprella acutifrons* Latr.

✓ DR. JOSEPH A. NOLAN (deceased).

20 bottles of Invertebrates in alcohol (Tunicates, Asteroids, Mollusca, etc.).

✓ MRS. JOHN J. ROBERTS, New York City.

5 specimens of coral (*Millepora alcornis* Less.), from the West Indies.

✓ R. P. WHITFIELD, New York City.

100 specimens of Corals; 20 specimens of Sponges; 20 Sea-fans, all from Nassau, N. P., Bahamas.

THROUGH MUSEUM EXPEDITIONS.

✓ COLLECTED AT THE NAPLES ZOÖLOGICAL STATION, by Dr. E. O. Hovey:

163 specimens, 69 species (in alcohol), embracing Cœlenterates, Echinoderms, Holothurians, Bryozoans, Worms, Crustaceans, and Tunicates.

✓ COLLECTED AT NASSAU, N. P., BAHAMAS, by Prof. R. P. Whitfield:

One very large specimen of *Madrepora palmata* Lam.;

One very large specimen of *Orbicella annularis* Dana.

BY PURCHASE.

47 specimens, mounted in alcohol, embracing Hydrozoans, Actinozoans, Asteroids, Echinoderms, Holothurians, Bryozoans, Mollusca, and Worms; all from the Gulf of Naples, Italy, secured through Dr. E. O. Hovey.

One *Nautilus pompilius* Linn., with animal and bisected shell, from Polynesia.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

MAMMALS.

BY DONATIONS.

✓ ANASTASIO ALFARO, San José, Costa Rica.

13 Small Mammals from Guatemala.

✓ J. H. BATTY, Sheepshead Bay, N. Y.

1 South American Deer, 2 Squirrels, 3 Opossums, 4 Mice, 1 Rabbit, from Colombia, S. A.

✓ E. C. BECKLE, College Point, Long Island, N. Y.

1 Gray Squirrel.

✓ J. H. P. BELL, Gainesville, Fla.

3 Red Bats.

✓ PROF. ALBERT S. BICKMORE, New York City.

5 Skins of Hispid Seal.

✓ W. E. CARLIN, New York City.

10 Small Mammals from Bitterroot Mts., Idaho.

✓ S. H. CHUBB, New York City.

1 Red Squirrel.

✓ F. M. CLARK, New York City.

2 Persian Cats.

✓ J. A. CROWE, New York City.

1 Bat.

✓ DEPARTMENT OF AGRICULTURE, Washington, D. C., through Dr. C. Hart Merriam, Chief of Biological Survey Division.

24 Specimens, topotypes of recently described species, from Mexico and Guatemala.

✓ DEPARTMENT OF PUBLIC PARKS, New York City.

15 Monkeys, 2 Lions (cubs), 2 Pumas, 2 Ocelots, 3 Bears, 2 Raccoons, 3 Coatis, 3 Foxes, 1 Seal, 1 Bison (calf), 1 Barbary Wild Sheep, 1 Nylghau, 3 Antelopes, 3 Deer, 1 Elk, 3 Porcupines, 1 Agouti, 1 Opossum.—Total, 48 specimens, received in the flesh from the Central Park Menagerie.

✓ C. A. DEYO, Schoharie, N. Y.

1 Muskrat, 1 Skunk, 1 Mole, 1 Jumping Mouse.

✓ CARL EICKEMEYER, Yonkers, N. Y.

2 Skins and 5 skulls.

✓ EDWARD FUCHS, New York City.

1 Bat.

✓ ABRAHAM GOLDBERG, New York City.

1 Mummified Cat.

✓ FRANK J. GOULD, Irvington, N. Y.

1 St. Bernard Dog.

✓ W. W. GRANGER, New York City.

✓ 3 Prong-horned Antelopes, 5 Coyotes, 5 Swift Foxes.

✓ PIERRE HUMBERT, New York City.

1 Head of Newfoundland Caribou.

✓ WILLIAM G. F. KOHL, New York City.

1 St. Bernard Dog.

✓ RICHARD MCGREGOR, Palo Alto, Cal.

1 Gopher, 1 Vesper Bat.

✓ WALTER F. MACKLIN, New York City.

1 Woodchuck.

✓ Miss S. E. MOWER, New York City.

1 Skye Terrier.

✓ H. J. ROSENBERG, Eastport, N. Y.

1 Chipmunk.

✓ JOHN ROWLEY, New York City.

9 Squirrels, 1 Wood Hare.

✓ W. E. SHELBOURNE, Magdalen Islands.

22 Small Mammals from Grosse Isle, Magdalen Islands, Gulf of St. Lawrence.

✓ HARLAN I. SMITH, New York City.

1 Deer skull, 1 Raccoon skull, 1 Coyote skull, from British Columbia.

✓ E. B. SOUTHWICK, New York City.

2 Young Gray Squirrels.

✓ D. D. STONE, Oswego, N. Y.

2 Hairy-tailed Moles.

✓ ERNEST SETON THOMPSON, New York City.

6 Small Mammals from Wyoming and Colorado.

✓ C. H. TYLER TOWNSEND, Mesilla Park, N. Mex.

5 Small Mammals from New Mexico.

✓ C. TRAVIS, Ardsley, N. Y.

2 Red Foxes.

✓ HARRISON R. WILLIAMS, New York City.

1 Skin of Giant Anteater.

✓ MRS. A. WITKOW, New York City.

1 Maltese Dog.

✓ ROBERT T. YOUNG, New York City.

19 Small Mammals from Prince Edward Island.

✓ JAMES M. CONSTABLE EXPEDITION.

2 Dall's White Sheep, and 60 Small Mammals, from Arctic America.

BY EXCHANGE.

764 Specimens, chiefly from California, Mexico, and Florida.

BY PURCHASE.

196 Specimens, mostly from California and Lower California.

BIRDS.

BY DONATION.

✓ ANASTASIO ALFARO, San José, Costa Rica.

8 Bird skins from Cocos Islands, 12 bird skins from Guatemala.

✓ BYRON ANDREWS, New York City.

5 Mounted birds.

✓ ARTHUR D. ATWOOD, Tenafly, N. J.

1 Mounted American Osprey.

✓ J. H. BATTY, Sheepshead Bay, N. Y.

2 Mexican Quails, 6 Central American Tanagers.

✓ BLOCH BROTHERS, New York City.

1 Great Blue Heron.

✓ A. BOOTH, Paterson, N. J.

4 Hawks.

✓ ARTHUR W. BROCKWAY, Lyme, Conn.

1 Florida Wren, 1 Marian's Marsh Wren.

✓ H. L. BURNELL, Brooklyn, N. Y.

1 Grebe.

✓ JOHN L. CADWALADER, New York City.

3 Groups of European Game Birds.

✓ FRANK M. CHAPMAN, Englewood, N. J.

3 Gulls, 1 Warbler, 2 House Sparrows.

✓ MISS K. L. DAVIS, New York City.

1 Canary.

✓ DEPARTMENT OF PUBLIC PARKS, New York City.

16 Parrots, 8 Eagles, 3 Owls, 3 Vultures, 1 Raven, 3 Pheasants, 1 Kingfisher, 1 Crane, 2 Swans, 1 Goose, 2 Pelicans, 1 Gallinule, 1 Heron, 1 Gannet.—Total, 44 specimens, received in the flesh from the Central Park Menagerie.

✓ A. E. DOUGLAS, New York City.

1 Malformed Chicken.

✓ ALEXANDER DOW, New York City.

1 California Vulture.

✓ WILLIAM DUTCHER, New York City.

34 Small birds, from Fire Island Light, N. Y.

✓ WILLIAM DUTCHER, through the Linnaean Society of New York.

29 Bird skins, mostly from Long Island, N. Y.

✓ CARL EICKEMEYER, Yonkers, N. Y.

26 Mounted birds, 20 bird skins, 50 birds' eggs, and four nests.

- ✓ THOMAS J. EGAN, Halifax, Nova Scotia.
✓ 1 Pair of King Eiders, mounted.
- ✓ S. N. H. GALLARD, New York City.
✓ 1 Weaver Bird, 1 Dove.
- ✓ ARTHUR H. HELME, Miller's Place, N. Y.
✓ 4 Bird skins from Japan.
- ✓ S. D. HOWELL, Schoharie, N. Y.
✓ 13 Small birds.
- ✓ SAMUEL M. KLAGES, Crafton, Pa.
✓ 5 House Sparrows.
- ✓ MRS. JOHN S. LAMSON, New York City.
✓ 3 Humming Birds' nests, from Island of Barbadoes, W. I.
- ✓ PETER W. MARTIN, New York City.
✓ 1 Oriole.
- ✓ H. W. MENKE, Kansas.
✓ 7 Sets of birds' eggs, from Aurora, Wyoming.
- ✓ MRS. SUSAN MITCHELL, New York City.
✓ 1 Hybrid Canary.
- ✓ R. B. POTTER, Nyack, N. Y.
✓ 1 Hawk.
- ✓ H. J. ROSENBERG, Eastport, N. Y.
✓ 1 Wild Turkey.
- ✓ J. ROWLEY, New York City.
✓ 1 Finch, 1 Flicker.
- ✓ W. P. SHANNON, New York City.
✓ 1 Albino House Sparrow.
- ✓ ERNEST SETON THOMPSON, New York City.
✓ 6 Bird skins from Idaho, 97 bird skins from Canada.
- ✓ C. TRAVIS, Ardsley, N. Y.
✓ 1 Heron.
- ✓ THOMAS M. UPP, New York City.
✓ 1 Grass Parakeet.
- ✓ ROBERT WALKER, New York City.
✓ 1 Parakeet.
- ✓ Mrs. F. W. WALTERS, New York City.
✓ 1 Bittern.
- ✓ CHAS. G. WOOD, New York City.
✓ 1 Case of birds' eggs (about 1000 specimens).

BY EXCHANGE.

134 Specimens, mostly Sea Birds.

BY PURCHASE.

65 Specimens, mostly from Florida.

REPTILES AND FISHES.

BY DONATION.

✓ BYRON ANDREWS, New York City.

✓ 1 Snake skin, 5 Fishes.

✓ DEPARTMENT OF PUBLIC PARKS, New York City.

✓ 180 Specimens of Fishes, mostly from the waters of New York State,
received from the New York Aquarium.

CARL EICKEMEYER, Yonkers, N. Y.

14 Reptiles, 5 Fishes.

BENJAMIN H. FITCH, New York City.

4 Lizards.

Mrs. JAMES HALL, New York City.

1 Rattlesnake skin.

ALFRED T. JONES, New York City.

5 Lizards, from Chihuahua, Mexico.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

THROUGH MUSEUM EXPEDITIONS.

- ✓ From the Jurassic of Wyoming, 141 specimens of parts of skeletons or separate bones of gigantic Reptiles (Dinosaurs), including four complete hind limbs ranging from seven to nine and a half feet in height.
- ✓ From the Tertiary of Colorado, 300 specimens of Fossil Mammals, including several complete skeletons and many fine examples of new or very rare species.

BY EXCHANGE.

- ✓ From the Paris Museum, casts of complete hind foot of *Dimodonsaurus* and skeleton of *Actinodon*.
- Sent in exchange to University of Lyons, France, specimens or casts of 35 species of Fossil Mammals, representing the life of the Age of Mammals in America, and models of the ancient reptiles *Naosaurus* and *Hadrosaurus*.

DEPARTMENT OF ANTHROPOLOGY.

BY DONATION.

- ✓ A. G. AGNEW, New York City.
Model of a Carretta from Italy.
- ✓ A. AMMON (through South American Exploration Company).
Stone implement from Santa Marta, Colombia.
- CAPT. STANLEY AMSBURY.
Boat from Anam.
- ✓ BYRON ANDREWS, New York City.
Palm-leaf basket.
- Mrs. G. C. ARNOLD.
Pair of Lapland shoes made of reindeer skin.
- ✓ HENRY E. AYRES (through South American Exploration Company).
211 agate beads from Santa Marta, Colombia.
- ✓ Mrs. SALLY MORRIS CORY, New York City.
A bronze chime, a cloisonné teaset, an opium jar, a Satsuma jar, and a cribbage board,—additions to the collection before given to illustrate Chinese customs.
- ✓ J. DORENBERG, Darmstadt, Germany.
Photographic reproduction of an ancient Mexican Codex, formerly known as the Codex Dorenberg and now called the Codex Colombino. Also three photographs of ancient Mexican Atlatls.
- ✓ JAMES DOUGLAS, New York City.
A large collection of Apache baskets and water-bottles. Also an Apache arrow.

✓ CARL EICKEMEYER, New York City.

Ethnological collection from the Indian tribes of the southwestern United States; stone implements from several localities in the United States; pottery vessels and stone implements from Colombia, S. A.; two large photographs (framed) of New Mexican pueblos.

✓ JESSE D. FIGGINS, New York City.

Two arrow points from Drummond, Va.

✓ GEORGE H. FOUNTAIN, Plainfield, N. J.

Twelve chipped implements of argillite from near Plainfield, N. J.

✓ SERGEY FRIEDE.

An Ainu coat.

✓ M. RAYMOND HARRINGTON, Mount Vernon, N. Y.

Three stone mortars; several large quartzite chips from Westchester Co., N. Y.; one photograph.

✓ H. C. HUMPHREY (through South American Exploration Co.).

Two pieces of pottery; one pottery vase and thirty-one stone beads from Santa Marta, Colombia.

✓ B. T. B. HYDE, New York City.

A collection illustrating the making of a Navajo blanket, consisting of sheep pelts, wool in its several stages of preparation, native dyes, weaving implements, a loom with a blanket partly woven, and twenty-one photographs showing the Navajos at work making the dyes, preparing the wool and weaving; also a collection showing pieces of buckskin colored by native dyes.

✓ ARTHUR CURTISS JAMES, New York City.

An extensive collection of Ainu objects from the Island of Yezo. This collection was secured by Mr. James, while in Yezo, during the cruise of the 'Coronet,' for the purpose of illustrating the customs of the Ainu. It consists of garments, ornaments, mats, fibres, loom, utensils, weapons, ceremonial objects, and model of Ainu house.

✓ MORRIS K. JESUP, New York City.

A carved stone yoke from State of Vera Cruz, Mexico.

✓ HUGH KELLY.

A stone axe and six potsherds from San Domingo.

✓ GEORGE WISTER KIRKE, New York City.

An Indian shirt.

✓ JOHN HOWARD LATHAM (through South American Exploration Co.).

Four stone objects; one egg-shaped stone; one perforated stone implement; and two celts from Santa Marta, Colombia.

✓ DUKE OF LOUBAT, New York City.

A carved stone yoke from State of Vera Cruz, Mexico. A cast, made from Maudslay's moulds, of the largest stela at Quirigua, Guatemala (this is 25 ft. high and is the largest American sculptured monolith known). A cast from the Peabody Museum moulds of the second largest stela (23 ft. high) from Quirigua. A cast from Maudslay's moulds of the great stela (H) of the ruins of Copan, Honduras; and the back of stela D from Copan. Casts from the Peabody Museum moulds of stelæ A, B, E, I, J, P, 1, 2, 6, 7, 9, 11; altars T, Q, D, N, B, F, S, J, I, and sculptures 6, G2, A, A1, A2, all from Copan. A series of casts from the Royal Ethnological Museum of Berlin, as follows: 67 sculptures from Mexico, 4 from Peru, 4 from Asia, and 2 from Hawaii. A

collection of photographs by T. Maler of sculptures in Chiapas, Mexico, and Guatemala. A copy of the reproduction of the Codex Borgiano, and numerous plates and volumes to illustrate the pictographic writings of the ancient Mexicans and Mayas.

CLARENCE B. MOORE, Philadelphia, Pa.

A counterfeit of a chipped flint implement.

J. V. SANTVOORD, New York City.

A Dakota doll.

JACOB SCHIFF, New York City.

A collection illustrating the use of the cocoanut palm by the Melane-
sians, and a collection illustrating the use of iron by the Africans.

SMITHSONIAN INSTITUTION, Washington, D. C.

Cast of one of the three slabs of the Tablet of the Cross of Palenque,
Mexico.

BENJAMIN STRONG, JR. (through South American Exploration Co.).

Two ornaments made of serpentine from Santa Marta, Colombia.

OLIVER S. STRONG (through the South American Exploration Co.).

56 agate beads from Santa Marta, Colombia.

WILLIAM WALLACE (through the South American Exploration Co.).

387 agate beads from Santa Marta, Colombia.

W. A. WHITE, Sag Harbor, N. Y.

Several stone implements and four stone gorgets from New York
State.

JOHN WISMAN, Brooklyn, N. Y.

Twenty-two chipped stone points from several localities in New York
State.

CAPT. E. G. ZALINSKI, New York City.

Three Japanese spears.

FROM MUSEUM EXPEDITIONS.

THE JESUP NORTH PACIFIC EXPEDITION. Gift of Morris K.
Jesup, New York City.

Specimens illustrating the religious ceremonials of the Kwakiutl.
Collected by Mr. George Hunt.

Ethnological collection from the Lillooet and from Thompson River
Indians. Collected by Mr. James Teit.

Archæological and ethnological specimens and photographs from Fort
Rupert, Comox, Sanitch, and the delta of Fraser River. Col-
lected by Harlan I. Smith.

Ethnological specimens from the Indians of the west coast of Wash-
ington. Collected by Dr. Livingston Farrand.

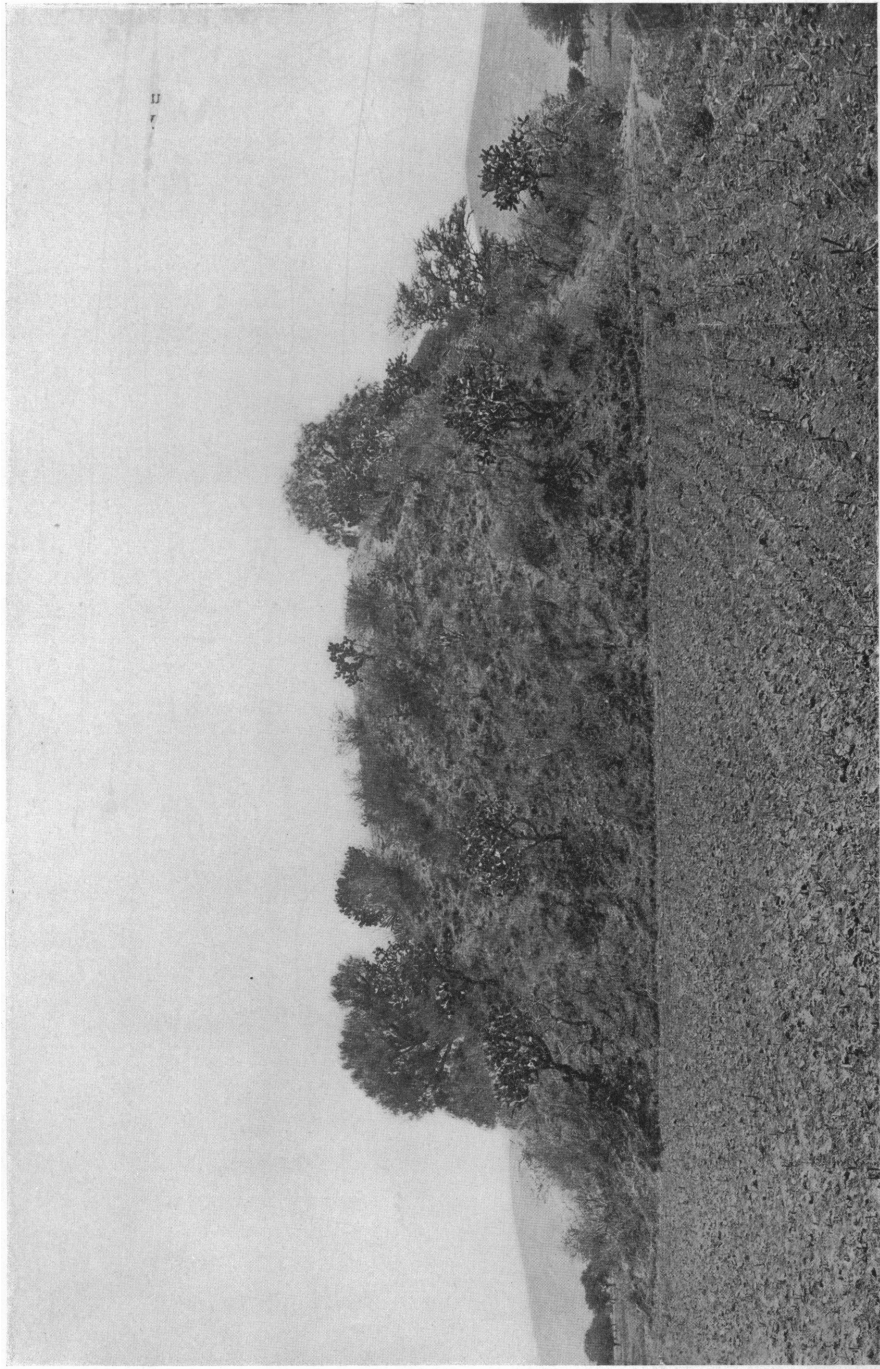
Plaster casts and photographs of Indians from Washington and
southern British Columbia. Collected by Mr. Roland B. Dixon.

Ethnological specimens from Port Clarence, Alaska. Collected by
Captain Miner Bruce.

THE HYDE SOUTHWESTERN EXPEDITION. Gift of B. Talbot B.
Hyde and F. E. Hyde, Jr., New York City.

A collection of several thousand objects from the exploration of the
ruins of the Pueblo Bonito, Chaco Cañon, New Mexico; human
skeletons, pottery, implements, ceremonial objects, ornaments and
carvings; also many photographs of the ruins and objects in place.
Collected by G. H. Pepper.

DEPARTMENT OF ANTHROPOLOGY.



THE GREAT MOUND AT XOXO, MEXICO. MUSEUM EXPEDITION, 1897-98.

✓ A collection from the cliff-houses and caves of the Grand Gulch region of southern Utah, consisting of nearly two thousand objects, including mummies, baskets, pottery and weapons; implements of wood, stone and horn; feather blankets and cloth blankets; garments and sandals; also a number of photographs showing the method of burial of two different peoples in this region. Collected by Richard Wetherell and party.

✓ EXPLORATIONS IN THE DELAWARE VALLEY. Gift of Dr. F. E. Hyde, New York City.

Stone implements from the glacial deposits at Trenton, N. J. Photographs showing the implements in place and the geological features; drawings and plans of the excavations; also human skeletons, stone implements, and other objects from the ancient burial-places and village-sites, near Trenton, N. J. Collected by Ernest Volk.

MEXICAN EXPEDITIONS.

Ethnological specimens from the States of Chiapas and Oaxaca, and photographs of Indians. Collected by M. H. Saville.

✓ Archaeological specimens from the explorations of mounds and tombs in Oaxaca and from the ruins of Palenque. Also many photographs of the explorations and ruins. Collected by M. H. Saville.

✓ Archaeological specimens from the ruins of Cempoalla; San Juan Teotihuacan; Valley of Mexico, and other places in Mexico. Collected by M. H. Saville.

✓ Ethnological collections from the Tarahumaras and Huichols. These collections are particularly important on account of the full series of ceremonial objects of which the meaning was also obtained. Many photographs illustrating Indian types and ceremonies were taken, graphophone records of seventy Indian songs were made, and several human skeletons and numerous archaeological objects were secured. Collected by Dr. Carl Lumholtz.

✓ Human skeletons, and various objects found with them, from several caves and burial-places; plaster casts of 12 Tarahumaras and 14 Huichols; many full measurements of Tarahumaras, Huichols, and Tepecanos. Collected by Dr. A. Hrdlička.

✓ A careful examination was also made by Doctors Lumholtz and Hrdlička of the remarkable adobe deposits at San Simon and other places, where a number of human skulls and four human skeletons were secured, with other objects found in these deposits.

JAPANESE EXPEDITION.

✓ A collection illustrating the daily life of the Japanese people. Collected by Dr. B. Laufer.

EXPEDITION IN PERU AND BOLIVIA. 4

✓ A large collection of pottery vessels, stone and copper implements, stone and metal utensils, personal ornaments, and various other objects from the graves and ruins of several localities in eastern Bolivia; also many human skulls, a number of which show trephining, from the chulpas of eastern Bolivia. Collected by Dr. A. F. Bandelier.

BY EXCHANGE.

✓ FROM THE KÖNIGL. ETHNOGRAPHISCHES MUSEUM, Berlin.
Ethnological objects from Africa.

✓ FROM THE KÖNIGL. ZOOLOGISCHES UND ANTHROPOLOGISCH-ETHNOGRAPHISCHES MUSEUM, Dresden.
Ethnological objects from Indonesia.

BY PURCHASE.

The Finsch Collection, consisting of a large number of objects illustrating the culture of the tribes of Melanesia and Micronesia; casts of faces and samples of hair of the natives; a detailed catalogue and many drawings and full descriptions of the specimens, by Dr. O. Finsch.
 Ninety-five stone implements from New York State. An ethnological collection from the Gulf of Carpentaria. Ethnological specimens from the Goajira Indians. A large carved mammiform stone from the Island of Dominica. Ethnological specimens from North American Indians. Large pottery vessels from New York. Two suits of Japanese armor. A collection of ancient Tarascan pottery from near Ixtlan, Mexico. Several small collections of pottery, jade objects, ornaments, sculptures, and stone implements from various localities in Mexico.

DEPARTMENT OF ENTOMOLOGY.

BY DONATION.

VERY REV. E. A. HOFFMAN, New York City.
 2250 Mexican, Central and South American butterflies.
 DIXON G. HUGHES, through South American Exploration Co.
 A collection of butterflies from Colombia.
 ALFRED G. EVANS, through South American Exploration Co.
 A collection of butterflies from Colombia.
 E. A. PRATT, Ryde, Isle of Wight, England.
 Two long-horn beetles from Colombia.
 WM. R. STARRETT, New York City, through South American Exploration Co.
 3 ants' nests, from Colombia.
 DEVEREAUX TOLER, New York City, through South American Exploration Co.
 A collection of butterflies from Colombia.
 L. H. JOUTEL, New York City.
 2 *Saperda puncticollis*; 1 nest of hornet (*Vespa crabro*).
 B. CLÉMENCON, Hoboken, N. J.
 Eggs of Japanese silk-worm moths.
 EDWARD DAMBACHER, New Jersey.
 Borings of carpenter bee.
 J. MYERS, Hackensack, New Jersey.
 Combs of honey bee.
 BENJAMIN LANDER, Nyack, N. J.
 Larvæ of 17-year locust.
 J. H. BATTY, Gravesend, Long Island, N. Y.
 Collection of butterflies from Colombia, S. A.

BY PURCHASE.

2 nests of hornet (*Vespa crabro*); 8 *Omus ambiguus*, from California; 150 specimens of *Catocala*; 40 Texan and Mexican butterflies; 1 aberration of *Pyrameis huntera*; a collection of beetles, from Colorado, Texas, and Arizona.

INCORPORATION.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 8, 1889.

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

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

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension, and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules, and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared

to be, the Trustees and Managers of said Corporation and its property.

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

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, and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

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

ARTICLE V.

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

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

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

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

ing of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

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

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

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

ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library, and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented

against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

ARTICLE VIII.

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

ARTICLE IX.

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

ARTICLE X.

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

ARTICLE XI.

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

ARTICLE XII.

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

ARTICLE XIII.

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

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

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

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

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

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

ARTICLE XIV.

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

ARTICLE XV.

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

BY-LAWS.

I.

Patrons, giving \$1000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

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

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

II.

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

III.

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

IV.

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

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

V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

VII.

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

VIII.

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

PATRONS.

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

B. H. HUTTON.*
 J. TAYLOR JOHNSTON.*
 D. N. BARNEY.*
 I. N. PHELPS.*
 JAMES STOKES.*
 D. WILLIS JAMES.
 EDWARD MATTHEWS.
 WILLIAM T. GARNER.*
 JAMES LENOX.*
 A. H. BARNEY.*
 COLEMAN T. ROBINSON.*
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 JONAS G. CLARK.
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 WILLIAM WALDORF ASTOR.
 CATHARINE L. SPENCER.*
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 D. G. ELLIOT.
 LIEUT. G. T. EMMONS, U. S. N.
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 EDWARD D. ADAMS.
 WILLIAM C. SCHERMERHORN.
 JOHN J. CROOKE.
 HENRY SELIGMAN.
 RICHARD T. WILSON.
 JOHN E. PARSONS.
 FRANCIS O. MATTHIESSEN.

* Deceased.

A. J. FORBES-LEITH.
 GEORGE BLISS.*
 M. C. D. BORDEN.
 ARCHIBALD ROGERS.
 GEORGE C. COOPER.*
 MRS. M. SCHUYLER ELLIOT.
 APPLETON STURGIS.
 THEODORE A. HAVEMEYER.*
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 GEORGE G. HAVEN.
 JAMES BAKER SMITH.
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 DR. WM. PEPPER.*
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 ELDRIDGE T. GERRY.
 DR. EDGAR A. MEARNs, U. S. A.

JOHN D. CRIMMINS.
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* Deceased.

JOSIAH M. FISKE.*
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 JOSEPH LOTH.
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 SETH LOW, LL.D.
 EDWARD LUCKEMEYER.

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E. H. R. LYMAN.
 Mrs. WM. H. MACY, JR.
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 GODFREY MANNHEIMER.
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 PETER MARIE.
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 PERCY MUSGRAVE.
 THOMAS B. MUSGRAVE/
 W. B. NEFTTEL, M.D.
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 W. D. NICHOLS.
 WILLIAM NIVEN.
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 H. O'NEILL.
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 Mrs. A. O. OSBORN.
 JOHN C. OSGOOD.
 HENRY PARISH.
 JOHN E. PARSONS.
 WILLIAM I. PEAKE.
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 Miss FRANCES PELL.
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 JAMES W. PINCHOT.
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 JOHN PONDIR.
 HENRY A. V. POST.

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 GEORGE RICHARDS.
 CHANDLER ROBBINS.
 ALFRED ROELKER.
 ARCHIBALD ROGERS.
 FRANKLIN D. ROOSEVELT.
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 HENRY MILFORD SMITH.
 L. DINWIDDIE SMITH.
 HENRY F. SPALDING.*
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 ALEX. H. STEVENS.
 C. AMORY STEVENS.
 FRANCIS LYNDE STETSON.
 ADOLPH D. STRAUS.
 ISIDOR STRAUS.
 ANSON PHELPS STOKES.
 Miss OLIVIA E. P. STOKES.
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 CHARLES E. TILFORD.
 A. N. TOWNE.
 EFFINGHAM TOWNSEND.
 SPENCER TRASK.
 EDWARD TUCK.
 EDWARD UHL.

* Deceased.

FREDERICK UHLMANN.
C. VANDERBILT.
GEO. W. VANDERBILT.
H. D. VAN NOSTRAND.*
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DR. HENRY F. WALKER.
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LOOMIS L. WHITE.

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ROBERT R. WILLETS.
BENJAMIN A. WILLIS.
EDWARD WINSLOW.
JOHN WOLFE.*
HENRY H. WOTHERSPOON.
JOHN H. WYMAN.*
MRS. JOHN J. WYSONG.

ANNUAL MEMBERS.

Abegg, Henry
Abegg, J. H.
Abeel, George
Acker, Franklin
Adee, Philip H.
Agnew, A. G.
Agnew, John T.
Aitken, John W.
Alden, R. Percy
Aldrich, Mrs. H. D.
Alexander, Henry M.
Alexander, Jas. W.
Alexander, John F.
Alexandre, J. H.
Allen, Calvin H.
Amend, Bernard G.
Ammon, Adolph
Amsinck, Gustav
Amy, H.
Anderson, E. Ellery
Andreini, J. M.
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Appleton, Wm. H.
Appleton, W. W.
Archbold, John D.
Archer, George A.
Armour, H. O.
Arms, George
Armstrong, James
Arnold, E. S. F., M.D.

Arnold, John H. V.
Aufhauser, Samuel

Babcock, Samuel D.
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Baker, Robert B.
Baldwin, J. G., M.D.
Baldwin, O. D.
Ballantine, Robert F.
Ballin, Gustav
Bangs, L. Bolton, M.D.
Banyer, Goldsborough
Barber, A. L.
Baring, Cecil
Barnes, E. W.
Barnes, John S.
Barney, Chas. T.
Barney, N. C.
Bawden, Wm.
Beadlestone, Mrs. Wm. H.
Beaman, Charles C
Beckel, Joseph
Bedle, Joseph D.
Beekman, Gerard
Beer, Julius
Beers, M. H.
Beinecke, B.
Bend, George H.
Benedict, James H.
Bentley, John

Berdell, Theodore
Bernheim, Gustav
Bernheimer, Mrs. A.
Bernheimer, Charles D.
Bernheimer, Charles L.
Bernheimer, Simon
Berrian, Charles M.
Berwind, Edward J.
Betts, Samuel R.
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Bien, Julius
Biglow, Lucius Horatio
Bissinger, Philip
Blackman, Louis H.
Blagden, George
Bliss, George T.
Blodgett, Dr. F. J.
Bloodgood, John H.
Blossom, Benj.
Blumenstiel, A.
Blumenthal, Aug.
Boas, Emil L.
Boettger, Henry W.
Bogert, Henry A.
Bogert, Stephen G.
Bond, Frank S.
Bonn, William B.
Bookstaver, H. W.
Booss, Frederick,
Borg, Simon

* Deceased.

- | | | |
|--------------------------|-------------------------|-------------------------|
| Boskowitz, I. | Clark, William N. | Derby, Richard H. |
| Bouton, J. W. | Clarke, Charles C. | deForest, Robert W. |
| Bowers, John M. | Clarke, George C. | deRham, Charles |
| Bowdoin, G. S. | Clarke, Thomas B. | deCoppet, Henry |
| Bradley, S. R. | Clarkson, Frederick | DeKlyn, B. F. |
| Bradley, William H. | Clausen, George C. | De Vinne, Theo. L. |
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| Briesen, Arthur von | Cleveland, Treadwell | Dewitt, William G. |
| Briesen, Frank von | Clinch, Edward S. | Dickie, E. P. |
| Bristol, John I. D. | Cochrane, John W. | Dickey, Mrs. Hugh T. |
| Brockway, A. N., M.D. | Coffin, Chas. H. | Diestel, Wm. |
| Brockway, Fred. J., M.D. | Coffin, Edmund | Dieterich, Chas. F. |
| Brookfield, Wm. | Coggeshall, Edwin W. | Dimock, Henry F. |
| Brooks, Charles M. | Cohen, Samuel M. | Dix, Rev. Morgan, D.D. |
| Brower, Wm. L. | Colgate, Abner W. | Dodd, S. C. T. |
| Brown, Alfred S. | Colgate, R. R. | Dodge, Cleveland H. |
| Brown, J. Crosby | Collins, Miss Ellen | Dodge, George E. |
| Brown, Vernon H. | Collins, Miss M. M. | Dodge, Miss Grace H. |
| Browning, Wm. H. | Compton, A. T. | Dodge, Mrs. Wm. E., Jr. |
| Bruce, S. D. | Conger, Henry C. | Dommerich, L. F. |
| Bryce, William | Conkling, Rev. Dr. N.W. | Dormitzer, Mrs. Henry |
| Burden, Henry, 2d | Constable, Frederick A. | Doudge, James R. |
| Burden, James A. | Cook, Chas. T. | Dougherty, A. |
| Burr, Wm. H. | Cooper, John | Doughty, Mrs. Alla |
| Butler, Prescott Hall | Cornell, R. R. | Douglass, Alfred |
| Butler, Wm. Allen | Coster, C. H. | Drake, John J. |
| Byrne, John | Crawford, R. L. | Drakenfield, B. F. |
| | Crocker, George Aug. | Draper, Dr. Wm. H. |
| Cabot, Dr. John | Cross, Richard J. | Du Bois, F. N. |
| Calder, George | Cummings, Richard | Du Bois, Dr. Matthew B. |
| Calman, Emil | Cutting, Robt. Fulton | Du Bois, Miss Katharine |
| Calman, Henry L. | Cutting, W. Bayard | Du Bois, William A. |
| Cammann, H. H. | | Duncan, John P. |
| Cannon, H. W. | Dalley, Henry, Jr. | Dunham, G. H. |
| Carter, A. | Daly, Augustin | Dunlap, Robert |
| Carter, James C. | Daly, Chas. P. | |
| Carter, Walter S. | Davenport, Ira | Edgell, George S. |
| Cassard, William J. | Davies, William G. | Eimer, August. |
| Chambers, Frank R. | Davis, Benjamin P. | Einstein, David L. |
| Chesebrough, Robert A. | Davis, Joseph P. | Elder, Mrs. M. A. |
| Chichester, Chas. F. | Davison, C. A. | Elliott, Edward |
| Chisolm, George E. | Day, Edward G., M.D. | Elliott, George |
| Chittenden, J. | Day, Henry M. | Ellis, John W. |
| Church, E. Dwight | Day, Miss Lydia | Ellsworth, Wm. W. |
| Cisco, John J. | Decker, Joseph S. | Ely, Miss Elizabeth L. |
| Clark, Cyrus | Deeves, Richard | Eno, Amos F. |
| Clark, George C. | Delafield, Maturin L. | Erbsloh, R. |

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| Ettlinger, Louis | Greenwood, Isaac J. | Holt, Henry |
| Evans, Richard | Gregory, Chas. E. | Holt, Miss Lydia C. |
| Evans, William T. | Guggenheimer, Randolph | Holt, R. S. |
| Evarts, W. M. | Gulliver, William C. | Hopkins, George B. |
| | Gurnee, W. S. | Horton, Burrett W. |
| Fahnestock, H. C. | | Hoyt, Chas. A. |
| Fairchild, Charles S. | Haber, Louis I. | Hoyt, Dr. Ezra P. |
| Fargo, James C. | Hague, James D. | Hoyt, Gerald L. |
| Farnham, Mrs. Horace P. | Hall, Mrs. John H. | Hubbard, Gen. T. H. |
| Fatman, Morris | Halls, William, Jr. | Hunter, Mrs. M. L. |
| Ferris, Frank A. | Halsted, Miss Mary M. | Huntington, A. M. |
| Fisher, Herman C. | Hamilton, John L. | Hüpfel, J. Chr. G. |
| Flagler, John H. | Hardenberg, J. P. | Hutton, F. R. |
| Fletcher, Andrew | Hardt, William Ernest | Hyatt, A. M. |
| Flint, Miss Helena | Hartley, Marcellus | Hyde, Clarence M. |
| Flower, A. R. | Hatzel, Frederick H. | Hyde, Mrs. Augustus L. |
| Flower, Frederick S. | Havemeyer, J. C. | Hyde, Dr. Frederick E. |
| Foote, C. B. | Haven, J. Woodward | |
| Ford, James B. | Haviland, Edwin | Ireland, John B. |
| Foster, Edward W. | Hawley, Edwin | Iselin, Adrian, Jr. |
| Foster, Scott | Hawley, Henry E. | Iselin, C. Oliver |
| Frankenberg, D. | Hayden, Brace | Iselin, Wm. E. |
| Fraser, Alfred | Hayes, R. Somers | |
| Frazee, Wm. C. | Haynes, A. E. | Jackson, Charles A. |
| Free, C. Lincoln | Heckscher, John G. | Jackson, Geo. T., M.D. |
| Freeborn, G. C., M.D. | Hedges, James | Jackson, John B. |
| French, S. A. | Hegeman, John R. | Jackson, Wm. H. |
| Freygang, George | Heide, Henry | Jacobus, John S. |
| Frissell, A. S. | Heinsheimer, L. A. | Jaeger, Francis M. |
| | Heminway, Homer | Jaffray, Robert |
| Gadd, Luther G. | Hendricks, Edmund | Janeway, E. G. |
| Gade, W. F. | Hernsheim, Joseph | Jaques, George B. |
| Garland, James A. | Heroy, Mrs. James H. | Jenkins, Wm. L. |
| Gay, Joseph E. | Higbie, Wm. H. | Jeremiah, Mrs. H. |
| Gibb, John | Higgins, Francis | Jesup, Jas. R. |
| Goddard, F. N. | Hill, Geo. H. B. | Jones, H. Le Roy |
| Godfrey, Chas. H. | Hill, James K. | Jones, Oliver L. |
| Godkin, Edwin L. | Hilyard, George D., Jr. | Jones, Walter M. |
| Goldschmidt, Geo. B. | Hinchman, Walter | Judson, Alfred M. |
| Goodridge, Mrs. Frederick | Hinman, W. K. | Juilliard, A. D. |
| Gossler, G. H. | Hinton, J. H., M.D. | |
| Gotthold, Fred. | Hoadly, George | Kahn, Otto H. |
| Grace, Wm. R. | Hoagland, Joseph C. | Kellogg, L. Laffin |
| Gracie, J. K. | Holden, E. B. | Kellogg, Mrs. Chas. |
| Graham, Malcolm | Holden, E. R. | Kemp, Edward |
| Green, Horace | Holly, Henry H. | Kendall, Edward H. |
| Greff, Ernest F. | Holmes, Wm. H. | Kennedy, John S. |

Kerbs, Adolf	Livingston, Wm. S.	Mildeberger, Mrs. John
Kerner, Charles H.	Lobenstine, W. C.	Milholland, John E.
Kerwin, Andrew J.	Lockman, Jacob K.	Miller, D. S.
Kevan, William	Loeb, S.	Miller, Geo. Macculloch
Kilner, S. E.	Loewi, Valentine	Milmine, George
Kimbel, Henry	Lord, Benjamin	Mitchell, Alfred
King, William F.	Lord, Mrs. D. D.	Mitchell, Chas. E.
Kingman, Abel Willard	Louis, Chas. H.	Mitchell, Dr. H. W.
Kinnicutt, Dr. F. P.	Lounsbery, R. P.	Mitchell, John J.
Klatzl, John C.	Low, C. Adolphe	Mitchill, Mrs. S. L.
Klenke, William H.	Ludington, C. H.	Moir, James
Knapp, H., M.D.	Lueder, A.	Moller, Peter, Jr.
Knower, Benj.	Lummis, Wm.	Moore, Francis C.
Koch, H. C. F.	Lydig, David	Moore, Miss Katharine T.
Kohlman, Charles		Moore, Mrs. W. D.
Kohn, S. H.	Mack, J. W.	Moore, W. H. H.
Kohns, L.	Mackenzie, Duncan E.	Morgan, George H.
Kraus-Boelte, Mrs. Maria	Mackey, Oscar T.	Morgan, John
Kraus, William	Macy, I. Augustus	Morris, Henry Lewis
Kuttroff, Adolf	Maitland, Robert L.	Morrison, George A.
	Malcolm, W. L.	Moss, John H.
Ladew, Mrs. H. S.	Mali, Charles	
Lagowitz, Miss H. L.	Man, William	Navarro, Juan N.
Laidlaw, Henry B.	Mansfield, Howard	Nelson, Wm.
Landon, Francis G.	Marble, Cyrus C.	Nichols, John W. T.
Lange, Dr. F.	Markoe, Dr. Thos. M.	Nisbet, William F.
Lange, J. D.	Marlor, Henry S.	Nott, Frederick J.
Langeloth, J.	Marshall, Charles H.	
Langmann, G., M.D.	Martin, W. M.	Ogilvie, James H.
Lapham, Lewis H.	Mayer, Emil, M.D.	Olcott, E. E.
Lapham, S. V.	McAlpin, C. W.	Olcott, F. P.
Lathers, Richard	McAlpin, D. H.	Olmstead Dwight H.
Lauderdale, J. V., M.D.	McAlpin, George L.	Olyphant, R. M.
Lavelle, Rev. Michael J.	McClintock, Emory	Olyphant, Robert
Lawrence, Cyrus J.	McComb, J. Jennings	Oppenheimer, Dr. H. S.
Lawrence, Mrs. Samuel	McCready, Mrs. C. A.	Owen, Mrs. Thomas J.
Layng, James D.	McCurdy, Richard A.	Owens, Wm. W.
Leavitt, Henry S.	McDonald, John E.	
Leaycraft, J. Edgar	McIntyre, Ewen	Paddock, Eugene H.
Lehman, E.	McKee, Russell W.	Palmer, N. F.
Leshner, A. L.	McKim, Rev. Haslett, Jr.	Palmer, S. S.
Lewis, Mrs. John V. B.	McLean, George H.	Park, Joseph
Lewis, Richard V.	Mead, Theo. H.	Parrish, James C.
Lewishon, Mrs. Leonard	Merrall, William J.	Parsell, Henry V.
Littlefield, Frederick M.	Metcalfe, John T., M.D.	Parsons, Mrs. Edwin
Livingston, Edward	Meyer, Thomas C.	Parsons, Joseph H.
Livingston, H. T.	Middleton, A. D.	Parsons, W. H.

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|---------------------------|--------------------------|--------------------------|
| Patterson, Edward | Root, Elihu | Snow, Elbridge G. |
| Peabody, Arthur J. | Rothschild, J. | Sooysmith, Charles |
| Peabody, George Foster | Rothschild, V. Henry | Squires, Grant |
| Peck, Charles E. | Rowell, George P. | Stachelberg, Mrs. M. |
| Pell, Frederick A. | Rowland, George | Stanton, John |
| Pell, John H. | | Stanton, J. R. |
| Pellew, Henry E. | Sage, Russell | Starin, John H. |
| Penfold, Wm. Hall | Saltus, J. Sanford | Stearns, John Noble |
| Penniman, George H. | Sands, Andrew H. | Stebbins, Jas. H. |
| Pentz, Frank R. | Sands, Daniel C. | Stechert, Gustav E. |
| Perry, William A. | Sands, Mrs. B. Aymar | Steers, Edward P. |
| Peters, Samuel T. | Sauter, Fred | Steers, Henry |
| Peters, W. R. | Sayre, Lewis A., M.D. | Steinway, Fred. T. |
| Peterson, Frederick, M.D. | Schaefer, Edward C. | Stephens, Benjamin |
| Phillips, Guy | Schaeffer, Hermann | Stern, Benjamin |
| Pickhardt, Carl | Schafer, Samuel N. | Stewart, Lisenard |
| Pinkus, F. S. | Schafer, Simon | Stewart, William R. |
| Platt, Isaac S. | Schefer, Carl | Stickney, J. |
| Platt, John R. | Scheitlin, Edward | Stiehl, Gustav H. |
| Powel, de Veaux | Schernikow, Ernest | Stone, Edwin |
| Powell, Wilson M. | Schott, Charles M., Jr. | Stone, Mason A. |
| Pray, Joseph M. | Schultze, John S. | Stone, Mrs. Catherine C. |
| Pryer, Charles | Scribner, Mrs. J. Blair | Stone, Mrs. Georgiana C. |
| Purdy, Wm. Macneven | Scudder, Hewlett | Stone, Sumner R. |
| Putnam, George L. | See, Mrs. Horace | Storm, Clarence |
| Putnam, Mrs. Albert E. | Seligman, Isaac N. | Storm, George |
| Putney, W. B. | Sellew, T. G. | Stratford, Wm. |
| Pyle, Jas. Tolman | Sennett, George B. | Strong, Wm. L. |
| | Seton, William | Sturges, Henry C. |
| Quinlan, William J., Jr. | Sharp, W. W. | Sutherland, John L. |
| | Sherman, Charles A. | |
| Raymond, Charles H. | Sidenberg, Gustavus | Taber, John R. |
| Reilly, James | Sidenberg, Richard | Tailer, Edward N. |
| Renwick, Edward S. | Sill, Charles | Taintor, C. M. |
| Rhineland, Chas. E. | Simpson, John Boulton | Taintor, Charles N. |
| Rhoades, J. Harsen | Simpson, John W. | Talcott, James |
| Richard, Auguste | Sinclair, John | Talmadge, Henry |
| Riker, John L. | Sloan, Samuel | Tandy, Rev. P. W. |
| Riker, Samuel | Smith, Adon | Taylor, Mrs. Aug. C. |
| Riker, Wm. J. | Smith, Charles S. | Taylor, George |
| Robbins, Rowland A. | Smith, Geo. W. | Taylor, Peter B. |
| Robbins, S. Howland | Smith, James Rufus | Taylor, Stevenson |
| Roberts, Miss Mary M. | Smith, John Jewell | Tefft, F. Griswold |
| Rogers, Henry H. | Smith, Rev. Cornelius B. | Tefft, Wm. E. |
| Rogers, Noah C. | Smith, William Alex. | Tesla, Nikola |
| Roosevelt, Charles H. | Smith, W. Wheeler | Thomas, T. G., M.D. |
| Roosevelt, W. Emlen | Smyth, Philip A. | Thomson, Giraud F. |

Thompson, W. Prall	Van Winkle, Miss E. S.	Wicke, William
Thorne, W. V. S.	Vandervoort, W. L.	Wickes, Edward A.
Tiemann, Daniel F., 3d	Veit, Richard C.	Wickham, Delos O.
Tierney, Myles	Voorhis, Wm. W. L.	Weibusch, Chas F.
Tiffany, Louis C.		Williams, George G.
Tillinghast, W. H.	Wales, Salem H.	Williams, Richard H.
Titus, E., Jr.	Walker, William I.	Wills, Charles T.
Toel, William	Wallace, Lewis	Wills, Wm.
Tonnelé, John L.	Wallach, Antony	Wilmurt, Thos. A., Jr.
Toothe, William	Wardwell, Wm. T.	Wilson, George
Townsend, R. H. L.	Warner, Lucien C.	Wilson, John
Townsend, R. W.	Warren, W. R.	Wilson, Washington
Tracy, J. Evarts	Waterbury, John I.	Wing, John D.
Trevor, H. G.	Watson, Miss Emily A.	Winthrop, Egerton L.
Trevor, Mrs. John B.	Weatherbee, Mrs. E. H.	Witherbee, Frank S.
Turnure, Lawrence	Webb, W. H.	Wood, Mrs. Henry R.
Tuttle, Nathaniel	Weed, Benjamin	Woodward, F. F.
Twombly, H. McK.	Weed, Geo. E.	Wormser, Isidor
	Weekes, John A.	Wray, Miss Cornelia S.
Ullmann, E. S.	Wehrhane, Chas.	Wright, Benjamin
	Wertheim, H. P.	Wright, Miss F. E.
Valentine, Mrs. Lawson	Westcott, Robert E.	Wurzburger, A.
Valentine, Wm. A., M.D.	Wetherbee, Chas. L.	
Van Brunt, Cornelius	Wetmore, Dr. John McE.	Youmans, Ephraim M.
Van Brunt, Hon. C. H.	Wheelock, Dr. W. E.	Young, Edward L.
Van Emburgh, D. B.	Wheelock, Geo. G., M.D.	Young, Reginald
Van Ingen, Edward H.	Wheelock, Wm. A.	
Van Norden, Warner	Whipple, L. Edmund	Zabriskie, Andrew C.
Van Pelt, G. S.	White, Horace	Zickel, S.
Van Santvoord, A.	Whitehead, Chas. E.	Zinsser, Aug.
Van Vleck, Joseph	Whitehouse, J. Henry	Zinsser, Wm., Jr.
Van Winkle, Edgar B.	Whitney, Alfred R.	Zollikoffer, O. F.

DECEASED ANNUAL MEMBERS,

1898.

Cox, Allyn
Cruger, S. V. R.
Ewart, James M.
Gade, Henry
Gillis, Chas. J.

Hilyard, George D.
Lyman, T. C.
McGee, James
Packard, S. S.
Ranger, Louis

Rolston, Rosewell G.
Schwab, Hermann C.
Toucey, J. M.
Van Wickle, A. S.
Ward, Mrs. Thomas

In Memoriam.

On the occasion of the Annual Meeting of the Trustees of the American Museum of Natural History, held February 14, 1898, the following minute was unanimously adopted; the Secretary was directed to record the same on the minutes, and present a copy thereof to the family of their deceased colleague, Daniel Jackson Steward:

Resolved: That the Trustees hereby record their deep sorrow for the loss of their associate and friend

DANIEL JACKSON STEWARD.

Mr. Steward was associated with the Institution since its inception, having been one of its incorporators, and subsequently its Second Vice-President, to which office he was elected in 1878.

His deep interest as a Trustee was enhanced by an inherent love for all branches of natural history. The department which received his closest study was that relating to conchology, and the gift of his superb cabinet of shells attests his love for this domain of nature.

Mr. Steward was always earnest and painstaking in his duties, so long as his health permitted his presence at the meetings of the Board and the Executive Committee, and although permanently disabled by illness, his great interest in the collections remained unchanged.

We gratefully record an acknowledgement of his generosity in the gift which bears his name, and we recognize in the combination of his artistic instincts and mental accomplishments, a character pre-eminent in these qualities.

We hereby extend to his family, the expression of our individual sympathy, recalling the consoling thought of his honorable and unblemished life.



SMALL TEMPLE AND GOD-HOUSES OF THE HUICHOL INDIANS, MEXICO. MUSEUM EXPEDITION, 1897-98.

