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AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and 8th Avenue.)

ANNUAL REPORT OF THE TRUSTEES,
ACT OF INCORPORATION,
CONSTITUTION, BY-LAWS AND LIST OF MEMBERS
FOR THE YEAR 1890-91.

1890-94



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NEW YORK:
PRINTED FOR THE MUSEUM.

1891.

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1890-94

PRESS OF WM. C. MARTIN,
111 JOHN STREET,
NEW YORK.

BOARD OF TRUSTEES,

1891.

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Librarian.

WILLIAM WALLACE,
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Assistant Secretary.

TWENTY-SECOND ANNUAL REPORT.

To the Trustees, Patrons, Fellows and Members of the American Museum of Natural History.

In presenting the Twenty-second Annual Report of the work of the Museum I may justly assert that the past year has been one of marked growth and prosperity.

The much desired Endowment Fund, which has often been brought to your attention, has been secured, and the total subscriptions amount to \$301,500. The income accruing from this fund will greatly assist in providing valuable additions to the collections for all future time, and it is earnestly hoped that the augmentation of this fund will keep pace with the growth of the institution.

Briefly stated, the report of the Treasurer for the year past shows the receipts to have been \$57,168.68, of which amount \$3,157.66 was a balance from 1889. The expenditures have been \$56,105.77, of which sum \$13,800.90 have been used for the improvement and enlargement of the collections. The maintenance of the Museum has cost \$42,304.87. Of this amount the city contributed \$25,000, and our members \$17,304.87.

The lectures by Professor Bickmore have been carried on during the past fall at a cost of \$2000 in excess of the estimate. This resulted from the failure of the Governor to sign the bill for continuing the lectures beyond October 1st, last.

A subscription of \$1000 was made in aid of the "Carl Lumboltz Expedition" to Northern Mexico and the Sierra Madre, and I fully expect that the result of this exploration will be of much benefit to our institution.

The removal of the specimens, and their temporary lodgment in other portions of the edifice, has necessarily been the cause of great confusion and annoyance; and this work has added somewhat to the expense of maintenance.

Our increase in membership has added to the roll of Patrons, Messrs. William Waldorf Astor, Henry Seligman, Richard T. Wilson, John E. Parsons, Francis O. Matthiessen, A. J. Forbes-Leith, George Bliss, and the Hon. M. C. D. Borden. Messrs. David Wolfe Bishop, Jr., and Cortlandt Field Bishop have become Fellows. The Museum has also gained nineteen Life Members, and one hundred and seventy-six Annual Members. Messrs. W. W. Cole and George H. Brown have been elected Honorary Life Members ; and Mrs. S. Lowell Elliot has been constituted an Honorary Patron by reason of valuable donations.

The provision of the exhibition cases for the fitting up of the new building is a subject upon which has been bestowed the most careful consideration. The experience and advice of those familiar with the needs of a museum has been availed of, in order that no precaution might be omitted that would contribute to the best results. Group cases have caused an outlay of about \$12,000, and will require an additional expenditure of \$6600 for the current year to complete those now in progress.

In this connection, we are indebted to the Hon. Whitelaw Reid, Minister of the United States to France, for his kindness in procuring for us a series of large photographs of the Exhibition Halls of the Natural History Museum in Paris ; thanks are also due to Professor G. Brown Goode, of the National Museum of Washington, for full working drawings and plans of completed cases.

A course of eight lectures was given last fall to members and their families by Professor A. S. Bickmore and Dr. Frederick Starr ; the former delivered a course of five lectures on Economic Botany and Economic Geology, and the latter gave three lectures on the History and Origin of Dress. The last lectures were illustrated largely from the material in the Ethnological Department.

A free lecture to the public was delivered by Prof. Bickmore on each of the following days : Thanksgiving, Christmas and New Years. These lectures were attended by large audiences.

The amount of the collateral inheritance tax levied upon the bequest of the late Wm. H. Vanderbilt to this Museum, was very generously refunded by Messrs. Cornelius and Wm. K. Vanderbilt;

this amount is not noted in the current receipts and payments, inasmuch as the Treasurer very kindly drew his check to the City Comptroller, and immediately received a refund of the amount. I am much gratified with their kind courtesy, in view of the fact that no obligation existed on the part of the executors.

Notwithstanding the constant interruptions and annoyances suffered by our official staff, the work in the several departments has been carried on without any very material delay. A synopsis of the work of the different divisions, summarized from the reports of the Curators and Chiefs of Departments, furnishes interesting data.

A most notable accession has been made to the Department of Minerals. It has been increased by the magnificent collection of cut and uncut gem material widely known as the "Tiffany Collection of Gems, etc.," which was a special attraction during the late exhibition held in Paris. We are indebted to Mr. J. Pierpont Morgan for this splendid gift. As a special collection of such objects, it is conceded to be without a rival; it will add greatly to the attractions of the Museum. An appropriate case is being constructed in which to exhibit it in the new hall connected with the Geological Department.

The entire accumulation of land shells, containing about 2300 species, comprising the collection of Mr. John J. Crooke, of this city, was presented to the Museum during the early portion of the year. This donation will increase the species of the Jay Collection by about fifty-seven per cent., making a most valuable acquisition to the Conchological Collection.

Of mammals, the additions acquired by donation, purchase and exchange show a total of 490. The Bird Collection has been increased from similar sources to the extent of 1570 specimens. The most important gift was received from Mr. W. E. D. Scott, and consists of nearly six hundred mammals and birds from Florida. Among the additions to the Exhibition Series are two fine adult skeletons of the Florida Manatee, several groups of Water Birds, and a large number of birds mounted at the Museum.

The Mammal Collection was removed from the lower hall during the summer and stored in the alcoves of the bird hall to await its transfer to the new wing. The accretion of material in this

division will be found stated in detail in the departmental report.

The Department of Taxidermy has not been obstructed in the performance of its work as have the others. The removal of the mammals from the lower hall made it requisite that many should receive some attention previous to being stored temporarily, and 172 were thus treated. The Indian Rhinoceros (formerly a special attraction in the menagerie of Central Park) is almost ready to be placed on exhibition.

The total number of groups now on exhibition amounts to forty-two; of this number two are mammals and forty are birds. The production of these groups has involved an expenditure of nearly \$21,000, exclusive of the cases, and it can justly be claimed that no other museum in the world possesses a similar exhibit equal in interest. Two mammal and two bird groups are nearly ready for exhibition. After these four groups and the Bison and Moose groups are finished, the work of the department will be the mounting of specimens for the general collection.

The report of the Entomological Department shows that the greater portion of the year has been devoted to the gathering and preparation of the material for the "Jesup Collection of Economic Entomology," the remainder of the time having been spent in making additions to the Study and Exhibition Collections. Thirty-six groups have been added during the past year, of which number five large and twelve small ones are displayed, while forty-four more are nearly completed, among which are included six collected during 1889.

The insect groups above referred to are a feature as yet unattempted by any other institution, and they have evoked the constant praise of visitors. A full description of these groups is appended in the departmental report. Mrs. S. Lowell Elliot has enriched this department by the gift of the fine collection of butterflies, moths, etc., gathered by the late Dr. S. L. Elliot. This collection contains about 6600 specimens of butterflies and moths, and four hundred specimens of wasps, dragonflies and grasshoppers.

The rooms in use for the library have been in a very confused state for a large portion of the year, and are at the present time

crowded far beyond their capacity. Notwithstanding this drawback the department has grown more rapidly than during the previous year; 313 volumes have been bound and 1213 volumes added. During last summer the librarian was instructed by me to make a tour of the several institutions noted in his report, in order to acquire information and plans, to be used in the arrangement of our library. The total number of volumes at the present time is 13,273, and estimated at market prices may be said to be worth nearly \$100,000. The most valuable donations have been received from Mr. George H. Brown, Mrs. Samuel Lawrence, the Geological Survey of New Jersey, Royal Academy of Copenhagen, Provincial Museum of Konigsberg, Australian Museum, and the Royal Academy at Amsterdam.

The Departments of Ethnology and Archæology have been for several months under the care of Dr. Frederick Starr, who has been retained to label and arrange the Bishop and the Emmons Collections in the Department of Ethnology. His work has covered the opening, classification, labeling, arranging and cataloguing of the above-noted collections.

The publication of Bulletins has been continued as during the previous year, and has resulted in an increase of exchanges of similar publications from other scientific bodies. Four articles were issued from the Geological Department, embellished with plates, and seven from the Department of Mammalogy and Ornithology.

I have arranged to have the future osteological work performed as far as practicable in the Museum building. The practice has been to have this work done by outside parties, but investigation has convinced me that it would be well to try the experiment of having it done within our own walls.

The record of visitors during the past year is as follows: Day attendance, 232,037, average per day, 740; evening attendance, 25,628, or an average of 244 per night; the attendance at the ten lectures amounted to 4885.

The large centre case in the lower hall has been removed, and the Jesup Collection of Woods placed in the side cases formerly occupied for the exhibition of the mammals. The water colors have been temporarily arranged on the doors outside of the cases.

There have been added to the collection twenty-seven photographs, which are displayed on the wall near to the wood specimens of the same species. This collection contains at the present time, 420 species and twenty-five varieties, dressed and on exhibition. Nine species have yet to be obtained to make this collection absolutely complete; they are very difficult to acquire, inasmuch as they have rarely been seen during recent years.

Two hundred and forty-three water colors have been received, and two hundred and twelve more have yet to be prepared, to complete the whole series. The necessary photographs will be added as rapidly as possible.

This entire collection of woods, water color drawings and photographs have been scientifically arranged under the supervision of Professor Charles S. Sargent, the eminent arboriculturist, in charge of the Arnold Arboretum of Harvard College, Brookline, Mass.

The year just past has been a period of much confusion and consequent expense, involved by the necessary transfer and storage of the specimens. This work has required the use of the entire force of the Superintendent of the building, and additional help often had to be engaged. The progress of the work was regularly reported to me, and a close supervision kept. This plan resulted in securing the utmost economy in outlay, and the best possible returns for the expenditure.

Upon the completion of the new wing there will have been used in the work on the same more than four million brick, two thousand two hundred tons of granite, eleven thousand square feet of glass for lighting, and eighty-five thousand seven hundred and twenty-five cubic feet of rubble work in the construction of the foundation. The foundation of a portion of the east wing was excavated to a depth of more than fifty-two feet. It may be interesting to incorporate these figures in the Annual Report of this year, as they will no doubt be of some statistical interest in the future.

It is my sad duty to record the death of our late associate, Mr. Hugh Auchincloss. His relation as a member of the Board of Trustees extended over a period of more than eight years, during which time he held the position of Secretary, from which office

he sought to be relieved on account of declining health ; through his decease the Museum has sustained the loss of a very warm friend. Appropriate resolutions were adopted at the last meeting of the Board, which were entered in full upon the minutes, and engrossed copies of same forwarded to the members of his family.

Mr. John B. Trevor, another zealous friend of this institution, and formerly a Trustee, died December 22d, last. He gave his best efforts to the interests of the Museum for a number of years until business demands compelled his retirement from the Board.

During the first few years of the existence of the Museum, it was maintained solely by the subscriptions of its Trustees and a few zealous friends and members, whose interest in its aims prompted them to assist it. It is fair to assume that the contributions of the Trustees, as included in money and gifts of specimens, from the formation of the institution to the present time, will aggregate nearly nine hundred thousand dollars.

The growth of public interest in the Museum during the past few years has been rapid and widely distributed, and many friends, recognizing the prominence which it has attained, have been prompted to exemplify their interest and appreciation by gifts of money and collections, substantial in amount.

In conclusion, I would tender our hearty thanks to those who have become contributors during the year past, and I cherish the conviction that the coming one will witness an even greater increase in the amount of subscriptions. The history of the formation of endowment funds for public institutions has demonstrated that, after such a result as we have just achieved, a steady increase has followed, and I feel great confidence that we also shall secure ample means to enrich our collections.

MORRIS K. JESUP,

President.

Endowment:

	EXPENDITURES.	
To Geological Department.....		\$196 37
Ornithological ".....		3,017 33
Ethnological ".....		2,787 08
Mammal ".....		1,915 64
Mineral ".....		230 87
Entomological ".....		51 70
Reptiles and Fishes.....		63 75
Wolfe Account, Shells.....		138 36
" Library.....		201 48
Library.....		1,070 12
Bird Groups Account.....		222 54
Mammal ".....		1,038 91
Conchological Department.....		831 42
Skeletons.....		186 00
Special Account.....		273 58
Taxidermist Department.....		279 28
Insect Groups Account.....		1,296 47
		\$13,800 90

Maintenance:

To Salaries.....	\$16,162 24	
Labor.....	8,983 81	
Repairs.....	263 39	
Postage.....	470 60	
Fixtures.....	111 38	
Lecture Department.....	7,303 82	
Car Fare.....	91 67	
Advertising.....	100 55	
Supplies.....	728 30	
Travelling Expenses.....	40 20	
Expressage.....	273 21	
Stationery.....	415 24	
Annual Reports.....	352 13	
Coal.....	2,018 79	
Printing.....	387 85	
Custom House Expenses.....	10 00	
Expense Account.....	2,359 99	
Labels.....	820 33	
Bulletins.....	1,223 79	
Poison.....	18 11	
Interest Dr. Balances (1889 and 1890).....	169 47	42,304 87
Balance brought down to January 1st, 1891.....		1,062 91
		<u>\$57,168 68</u>

Examined { ADRIAN ISELIN, } *Auditing*
and approved, { CHARLES LANIER, } *Committee.*

Endowment :

RECEIPTS.

By Balance from December 31, 1889.....	\$3,157 66	
From Interest on Invested Funds.....	11,853 47	
Sale of "Guides".....	170 60	
Fees from "Collecting Permits".....	27 00	\$15,208 73

PATRONS' ACCOUNT: Subscription of

Hon. M. C. D. Borden.....		1,000 00
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LIFE MEMBERS' ACCOUNT: Subscription

Theodore K. Gibbs.	\$100 00	
S. D. Coykendall.	100 00	
Fred. C. Havemeyer.....	100 00	
George B. DeForest....	100 00	
Edward J. Farrell.....	100 00	
Spencer Trask.....	100 00	
Norman W. Dodge.....	100 00	
John E. Alexandre	100 00	
Thompson Dean.....	100 00	
Henry H. Wotherspoon.....	100 00	
Franklin L. Gunther.....	100 00	
Stephen T. Gordon.....	100 00	
James Cruikshank.....	100 00	
C. H. Odell.....	100 00	
John J. McCook	100 00	
Alexander Maitland.....	100 00	
Peter Donald	100 00	
Charles L. Colby.....	100 00	
Hugh O'Neill.....	100 00	1,900 00

\$18,108 73

Maintenance :

Dues from Annual Members.....	\$8,060 00	
State Superintendent Public Instruction.....	5,999 95	
Department of Public Parks.....	25,000 00	39,059 95
		\$57,168 68

Balance from 1890 Account.....		\$1,062 91
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[E. & O. E.] NEW YORK, *February 16, 1891.*

J. PIERPONT MORGAN, *Treasurer.*

ENDOWMENT FUND.

The following amounts have been subscribed and paid into the Endowment Fund of the American Museum of Natural History during 1890.

Mrs. ROBERT L. STUART.....	\$50,000
J. PIERPONT MORGAN.....	25,000
PERCY R. PYNE.....	25,000
D. O. MILLS.....	25,000
JAMES M. CONSTABLE	25,000
MORRIS K. JESUP.....	25,000
CORNELIUS VANDERBILT.....	25,000
WILLIAM E. DODGE.....	10,000
OSWALD OTTENDORFER.....	5,000
C. P. HUNTINGTON	5,000
CHAS. G. LANDON	5,000
D. WILLIS JAMES	5,000
Miss PHEBE ANNA THORNE.....	5,000
CHAS. LANIER.....	2,500
WILLIAM WALDORF ASTOR.....	1,000
HENRY SELIGMAN	1,000
HEBER R. BISHOP.....	1,000
RICHARD T. WILSON.....	1,000
JOHN E. PARSONS	1,000
FRANCIS O. MATTHIESSEN	1,000
A. J. FORBES-LEITH.....	1,000
GEORGE BLISS.....	1,000
CORTLANDT FIELD BISHOP.....	500
DAVID WOLFE BISHOP, Jr.....	500
	<hr/>
	\$246,500

DEPARTMENTAL REPORTS.

GEOLOGICAL DEPARTMENT.

(INCLUDING THE MINERALOGICAL AND CONCHOLOGICAL COLLECTIONS.)

PALÆONTOLOGICAL COLLECTIONS.—Owing to the condition of the Museum building during the year, less time was devoted to work on these collections than was desirable. Still all that was not fully taken up by changes and work made necessary by the repairs being made was devoted to it. Up to the first of January, 1891, the work of labeling has been carried forward on the east side of the room to within the Upper Helderberg Group, or into section 13 of Case G, having advanced from the beginning of the Lower Helderberg Group, in section 10, Case F. Within this area there were 1217 complete labels placed during the year, 477 of which are those pertaining to "type" or "figured" specimens, requiring citations and references. In addition to this there were 137 complete labels made for a collection of fossils from Palestine, which are not on exhibition for want of space, and about three hundred others replaced in the collection where the damage by water from roof-leakage had destroyed those previously made. There were also 665 labels reprinted by Mr. Gratacap to replace those first used, printed in *red* ink and now so faded as to be illegible. About 400 more of these yet remain on the east side of the room, and about 200 on the west side. The aggregate of new permanent labels added to the Palæontological collections during the year is 2319. The labels for the Palestine fossils all had to be determined and obtained from books published on this Syrian region, and are not yet complete, as the literature necessary for that purpose is not in our library.

But few of the labels furnished during the year have been mounted on blocks, as the carpenter employed by the Museum has not had time to make them. This necessarily leaves the cases in much confusion, as the collections have to be removed again to insert the blocks, and it makes an unsightly and disagreeable feature which we cannot help, but which ought to be remedied as early as possible, so that it may not interfere with the progress of work.

CATALOGUING.—The Palæontological Collection catalogue has progressed in the hands of Mr. L. P. Gratacap to near the middle of Case D on the east side of the room, including two alcove desk cases.

DONATIONS AND PURCHASES.—Several donations and two quite valuable purchases of fossils were made during the year. One purchase of a collection of Utica Slate fossils, similar but rather more extensive than that asked for in my last annual report, and at a smaller price. The second of two handsome fossil fish from the Twin Creek, Wyoming Eocene bed. One of these formed the basis of an article in the Bulletin. These, with other donations and purchases, will be found recorded in the Appendix.

MINERALOGICAL COLLECTION.—But little work has been done on this collection further than that made necessary by the addition of occasional new material. The catalogue of the collection as it now stands was completed by Mr. Gratacap early in the year.

A number of purchases and donations have been made to this collection during the year. The most noted addition is the donation by one of our Trustees of the "Tiffany Collection of Gems and Gem Material," exhibited by the Tiffany Co. at the late Paris Exposition, which is unquestionably the finest collection of the kind in existence, and will necessarily be an attractive feature of the Museum when it is placed on exhibition. There will, however, be a necessity of frequent additions from time to time as other material is offered. In fact there is at present quite a quantity of such material now in the Tiffany Company's hands, which ought to be secured, and also a remarkably brilliant green and violet Australian opal now owned by the G. L. English Co.

ECONOMIC COLLECTION.—But few additions have been made to this department during the year. Many promises have been made, but with small results. E. Fritsch, Esq., of 515 West Twentieth Street, has furnished the five other blocks of Algerian marbles, thus filling the case, and giving twelve varieties of these marbles. Also a box of ore samples (chiefly gold and silver) was received from D. O. Mills, Esq., forwarded by S. A. Knapp, Esq., of Hawthorn, Nevada, containing 46 lots, with another box on the way. These samples of ores are marked to show the mine whence taken, and the percentage of metal which they yield. The Collection of Building Stones still remains in cases in the attic hallways and on the stairs, the latter subject to defacement and injury. It is to be hoped that a permanent place of rest may soon be found for this collection in the new building.

CONCHOLOGICAL COLLECTIONS.—The accessions to this collection during the year have been quite important and valuable. A series of marine shells, presented by D. Jackson Steward, Esq., Trustee of the Museum, is composed largely of very fine and valuable shells; and is also quite extensive, although not representing all the groups, and could it have been incorporated in the general collection would have improved its appearance very much,

but one of the conditions of the gift is that it shall be arranged separately according to the Lamarckian system of classification, as an historical record of that system. The Crooke Collection of Land and Fresh Water Shells, donated by John J. Crooke, of Staten Island, is also extremely valuable and extensive, and will add very largely to our collections, although not composed of showy specimens. In the four genera, *Helix*, *Cylindrella*, *Partula* and *Succinea*, for instance, it will add 478 species. The entire land shells of the Jay Collection numbers 1600 species, the Crooke Collection 2300; but the proportion of added species is much above this difference, as many in the Jay are not represented in the Crooke Collection.

Accessions to the Geological Department.

BY DONATION.

- GEO. ASHMAN, New York City.
Eight specimens of Lower Helderberg Limestone, carrying *Leperditia* and *Beyrichia*, from Chepachet, Herkimer Co., N. Y.
- H. BOOTH, Poughkeepsie, N. Y.
One hundred specimens of Copal, inclosing insects; cut and polished; principally from Zanzibar, Africa.
- BOOTH, GARRETT & BLAIR, Philadelphia, Pa.
A small collection of fossils comprising representatives from Europe and America, and formerly the property of Prof. Booth, of Philadelphia, Pa.
One set of Dr. Jacob Green's models of the originals of *Trilobites* described in his Monograph of the *Trilobites* of North America.
- J. E. COE, New York City.
Fossil Gasteropods from the coal shale at Danville, Ill., and specimens of fossils from the Hudson River Group, Wilmington, Will Co., Ill.
- E. CUDLICH, Stockton, Pa.
Core of Boring, by diamond drill, through coarse sandstone of the Coal Measures at Stockton, Pa.
- SUMNER T. DURHAM, New York City.
Vertebrate fossil remains, from the Marl Pits at Malvern Hills, Virginia.
- WM. DUTCHER, New York City.
Specimen of Chemung Sandstone with fossils, from Stamford, Delaware Co., N. Y.
- PROF. W. B. DWIGHT, Poughkeepsie, N. Y.
Twenty-one specimens of Primordial Fossils, from the Potsdam sandstone, shale, and limestone at Stissing Mt., and at Schodack Landing, N. Y.
- J. HADDAEUS, Sing Sing, N. Y.
A number of specimens of detached bones, teeth, etc., with phosphatic nodules, from the mines near St. Projet, Caylus, France.
- A. H. JOCELYN, N. Y., and O. C. BROWNELL, Tionesta, Pa.
Specimen of *Stigmaria* in oil-bearing sandstone, Tionesta Creek, Alleghany River, Forest Co., Pa.
- J. S. McLAURY, Yonkers, N. Y.
One *Septaria*, Onondaga Co., N. Y.

- W. A. F. KELCH, New York City.
Specimens of Oriskany, Schoharie, Lower Helderberg, and Hamilton Fossils, found loose at Black Head and Cairo, Round Top, Catskills, Greene Co., N. Y.
- CLARENCE LOWN, Poughkeepsie, N. Y.
One hundred specimens of Copal, carrying insects; principally from Zanzibar, Africa. These specimens are cut and polished.
- W. MILLER, New York City.
Granite fold in Mica-schist, from West End Avenue, N. Y. City.
- MISS E. S. MINTURN, New York City.
Handsome specimen of Copal tree showing gum filling cavities in the trunk.
- H. P. PARMELEE, Hillsdale, Michigan.
A few fossils from Hillsdale, Michigan.
- PETER J. STEINER, N. Y.
Specimen of Pecopteris? from Coal Measures on Boundary Line of Styria, Carinthia and Salzburg, Austria, 7000 ft. elevation.
- MISS MARY E. SARTWELL, Brooklyn, L. I.
Two blocks of Chazy Limestone filled with Orthids. Found loose, 12 miles from Plattsburg, N. Y.
- MISS M. O. SEYMOUR, Brooklyn, L. I.
Clay Concretions, from Willet's Point, L. I.
- MISS J. TERRY, New Haven, Conn.
One specimen of *Maclurea magna*, from Basin Harbor, Lake Champlain, Vt.
- J. TERRY, New Haven, Conn.
One clay Concretion, Southampton, L. I.
- PROF. R. P. WHITFIELD, New York City.
A collection of Syrian Fossils, from Palestine.
- J. WILCOX, Philadelphia, Pa.
Eocene fossils from Florida and Virginia. Three specimens of a rare Pliocene species of Gasteropod (*Solenosteira mengeana*), Caloosahatchie, Florida.

BY EXCHANGE.

The Exchange with the Wagner Free Institute of Science, Philadelphia, Pa., has been completed by the receipt of more than 52 specimens of Lamelibranchs, and over 170 specimens of Gasteropods, from the Miocene of Maryland; and over 70 specimens of Mollusca from the Miocene of Virginia.

BY PURCHASE.

- From J. DAVISON, Hams Forks, Wyoming.
One specimen of a fossil fish *Dapedoglossus testis*, from Twin Creek, Wyoming.
- From H. A. PRIDE, Holland Patent, N. Y.
A collection of Utica Slate Fossils, comprising about 200 specimens, from Rome, Marcy, Floyd, Trenton and Holland Patent, N. Y.

Accessions to the Mineralogical Department.

BY DONATION.

- PROF. A. S. BICKMORE, New York City.
Two pieces of Pyritiferous Ore in Feldspar and Calcite from the Treadwell Mine, Douglass Island, Alaska.

- VICTOR F. ALLIEN, New York City.
One specimen of Elaterite, a peculiar Mineral Rubber, from Utah.
- N. A. BIBIKOV, Albuquerque, N. M.
Three specimens of Aragonite, from near Albuquerque, N. M.
- MESSRS. BOOTH, GARRETT & BLAIR, Philadelphia, Pa.
Three specimens of Zaratite on Chromite. Two specimens Brucite, from Wood's Mine, Texas, Lancaster, Co., Pa. One specimen of Carbonate of Copper and Lead on Oxide of Cobalt in iron gangue, Mine La Motte, Missouri.
- R. A. CUNNINGHAM, New York City.
Two specimens of Arsenopyrite (Mispickel), from ten miles west of Littleton, N. H. The specimens represent paying ore.
- J. L. DAVIDSON, Lockport, N. Y.
Five specimens of Niagara Limestone, enclosing geodes of Calcite and Dolomite, from Lockport, Niagara Co., N. Y.
- S. D. DILL, New York City.
One specimen of Pyrolusite, Walton, Nova Scotia.
- Mrs. S. LOWELL ELLIOT, Brooklyn, L. I.
Some pieces of Graphite from near Union, Massachusetts.
- J. M. HALLOVAS, New York City.
Eleven specimens of Silver Ore (Cerargyrite and Argentite with copper salts), from Mine San Agustine, Huantajaya, Chili, S. A.
- J. HUNTINGTON, Inwood, N. Y.
One ball of concretionary Pyrite, from Millersbürg, Va.
- F. B. JONES, Brooklyn, L. I.
One cut and polished sphere of Smoky Quartz.
- J. S. McLAURY, Yonkers, N. Y.
Aragonite from Wilcox Quarry, near Fayetteville, Onondaga Co., N. Y.
- GEORGE MEREDITH, New York City.
The Gold from his first pan of washings on entering the Placer diggings at Pleasant Creek, Ararat, Ripon Co., Victoria, Australia.
- Miss E. S. MINTURN, New York City.
One handsome specimen of Gold Quartz.
One fragment of cut dish of Fluorite.
Two specimens of Lava with implanted coin.
One specimen of polished Norite (Au Sable Granite).
- J. PIERPONT MORGAN, New York City.
A very valuable and extensive collection of American gems and gem stones in the rough, and also many cut gems of foreign countries. This collection has been known as the Tiffany Collection of Gems and Gem Material, and is that which they exhibited at the Paris (France) Exposition of 1889.
- W. NIVEN, New York City.
One specimen of *Nivenite* from Llano Co., Texas.
One specimen cubical Pyrite, large, coarsely striated, from Gilpin Co., Colorado.
- REV. RICHARD B. POST, N. Y.
Specimens of volcanic lava and sulphur; Kilauea, Hawaii, Sandwich Islands.
- JENNESS RICHARDSON, Yonkers, N. Y.
Three specimens of compact Garnet and Colophonite, from Minerva, near Schroon Lake, Adirondacks, N. Y.

- PROF. F. STARR, New York City.
 Specimens of Galenite, Mine La Motte, Mo.
 " Wulfenite, Einstein Mine, Mo.
 " Lepidolite, Mo.
- J. B. TAYLOR, New Mexico.
 Specimen of Moss, in part mineralized by a deposit of Carbonate of Lime, from hot springs of Hermosa, New Mexico.
- TIFFANY & CO., New York City.
 A large specimen of Rhodonite, from Cunningham, Mass., and a large mass of compact transparent Quartz, with broad terminal crystal planes, from Ash Co., N. C.
- J. E. UNDERHILL, Brooklyn, L. I.
 A group of limonitic concretions (12 specimens), from Ridgewood, L. I.
- CH. W. WARREN, Middletown, N. Y.
 One specimen of Brucite, Hoboken, N. J.
 Two specimens of Seed Garnet, from 10th Avenue and 86th Street, N. Y.
 Four specimens of Stilbite, from 56th Street and 9th Avenue, N. Y.

BY EXCHANGE.

- F. B. JONES, Brooklyn, L. I.
 One crystal of Troostite, Franklin, N. Y.
 Topaz Pebble?, New Zealand.
 Cube of agatized wood, Apache Co., Arizona.
 Precious Opal, Mexico.
 Star Mica.

BY PURCHASE.

- WM. NIVEN, New York City.
 One specimen of Descloizite, Georgetown, Grant Co., N. M.
 " " Vanadinite, " "
 " " Chrysocolla, Bisbee, Arizona.

Accessions to the Economic Department.

BY DONATION.

- E. FRITSCH, New York City.
 Five slabs of Algerian Marbles, from Djebel, Mount Orouse, Algeria.
- D. O. MILLS, N. Y.
 Forty-six lots of samples of Ores, gold and silver, with specimens of Borates and Natron, from Hawthorne Mining District, Esmeralda Co., Nevada and Ingo Co., Cal.

Accessions to the Conchological Department.

BY DONATION.

- JOHN J. CROOKE, N. Y.
 A large collection of land and fresh water shells, with a few marine, comprising about 3000 species.
- MISS COLLINS, N. Y.
 Specimen of *Helix desertorum*.
- A. F. GRAY, Yonkers, N. Y.
 Lot of shells, *Strophia iostoma* Pfr., from Inagua (Bahamas).
- FRANZ KINZEL, Upper Matacombe, Florida.
 Specimen of *Bulimulus elongatus*, Menke, and two specimens of *Helix*, Menke, from Upper Metacombe, Florida.

MERCANTILE LIBRARY ASSOCIATION.

A small collection of miscellaneous marine shells.

MISS MINTURN, N. Y.

A lot of shells, mostly West Indian.

REV. RICHARD B. POST, Hoboken.

A collection of shells, mostly from Pacific Islands and West Coast of America.

GEO. H. RAGSDALE, Gainesville, Texas.

Specimens of *Buliminus Ragsdalei* Pillsbury, from Cook Co., Texas.

BY PURCHASE.

PROF. HENRY A. WARD.

One specimen of *Voluta Junonia* for exchange.

DEPARTMENT OF MAMMALS AND BIRDS.

MAMMALS.—The additions number 49 skins, 500 skulls, and about 25 skeletons, obtained as follows:—*By donation*: 86 specimens in the flesh; 120 skins and 115 skulls, mostly from Florida. *By exchange*: 126 skins and 120 skulls, mostly North American. *By purchase*: 214 skins and 230 skulls, mostly from Mexico.

During the summer the Exhibition Collection was removed from the lower hall to the bird floor, where it is temporarily stored, awaiting the completion of the new Mammal Hall. The Study Collection, including both skins and skulls, is now entirely labeled and catalogued, and arranged for convenient use. Several hundred skulls have been cleaned during the year, and the smaller ones placed in vials, safe from dust and perfectly accessible for reference.

The chief additions to the exhibition series made during the year are the skeleton of the Indian Elephant "Samson"; two adult very fine skeletons of the Manatee, and also various smaller skeletons, and a few mounted Monkeys. The principal additions to the Study Collection are the Buller Collections from Mexico, and several large accessions from Florida. Many valuable specimens have also been received in the flesh from the Central Park Menagerie. The Museum is also indebted to Mr. George R. McKenzie, of Glen Spey, N. Y., for a very fine buck Elk, kindly presented by him for one of the contemplated groups of North American Mammals.

BIRDS.—The additions are 1570 skins, and a small number of nests and eggs, obtained as follows:—*By donation*: 644 skins, mostly North American, of which 440 were presented by Mr. W. E. D. Scott. *By exchange*: 175 skins, mostly exotic, including many of great interest. *By purchase*: 751 skins, mostly from Mexico and Central America.

About a hundred birds, mounted at the Museum, have been added to the Exhibition Collection during the year. Also several fine groups of Water Birds, including the Labrador Duck group. To the Study Collection have been added nearly 750 specimens from tropical America, and about 600 from Florida. The principal gift to this department has been received from Mr. W. E. D. Scott, as noted above.

During the year about 2000 labels for the South American mounted birds have been prepared and printed; about 1200 Old World mounted birds have been carefully identified and catalogued, preparatory to labeling. The additions made to the Study Collection during the year have also been identified, labeled and catalogued; the Mearn's Collection, received last year, numbering some 4000 specimens, is nearly catalogued.

The exchange of duplicates gives us not only much new material, but we are able in this way to secure many valuable specimens not otherwise obtainable.

The use of our collections by specialists is steadily increasing, and the pleasant reciprocal relations between this Museum and the leading investigators and museums of this country, mentioned in the report for last year, still continue.

As an outcome of the scientific investigation of the Museum collections during the year, the Curator and his Assistant have prepared the following papers, printed in No. 1, Vol. III, of the Museum Bulletin, aggregating 178 pages:

1. On Seasonal Variation in Color in *Sciurus hudsonius*. By the Curator. 4 pp. Published June, 1890.
2. A Review of some of the North American Ground Squirrels of the Genus *Tamias*. By the Curator. 72 pp. Published June, 1890.
3. On a Collection of Birds made by Mr. Clark P. Streater in British Columbia, with Field Notes by the Collector. By Frank M. Chapman. 36 pp. Published October 8, 1890.
4. Descriptions of a New Species and a New Subspecies of the Genus *Lepus*. By the Curator. 2 pp. Published October, 1890.
5. List of Mammals collected by Mr. Clark P. Streater in British Columbia, with Descriptions of two New Subspecies of *Sciurus*. By the Curator. 8 pp. Published November 14, 1890.
6. Notes on a Small Collection of West Indian Bats, with Description of an apparently New Species. By the Curator. 5 pp. Published November 14, 1890.
7. Notes on Collections of Mammals made in Central and Southern Mexico, by Dr. Audley C. Buller, with Descriptions of New Species of the Genera *Vespertilio*, *Sciurus*, and *Lepus*. By the Curator. 20 pp. Published December 10, 1890.

The following paper, published during the year in the Museum Bulletin, was also based on the material of this department.

8. Descriptions of supposed New Species and Subspecies of Mammals from Arizona. By Edgar A. Mearns, Assistant Surgeon U. S. A. 31 pp. Published February 21, 1890.

Accessions to the Department of Mammals.

BY DONATION.

P. T. BARNUM and J. A. BAILEY, Bridgeport, Conn.
1 Sun Bear, 2 Harbor Seals.

DEPARTMENT OF PUBLIC PARKS, New York City, through Dr. W. A. Conklin, Superintendent of the Central Park Menagerie.
26 monkeys, including the Chimpanzee "Kitty"; 3 young Lions; 2 South American Panthers; 2 Ocelots; 1 Spotted Hyena; 3 Black Bears; 1 Badger; 1 Otter; 1 Raccoon; 1 Cacomistle; 2 Coatomondis; 2 Kinkajous; 1 Coyote; 1 Black-backed Jackal; 1 Red Fox; 1 Black Fox; 1 Yucatan Deer; 1 Virginian Deer; 1 Hog Deer; 1 Reindeer; 1 Indian Antelope; 1 American Bison and 1 Bison head; 1 young Indian Buffalo; 3 young Angora Goats; 1 young Camel; 1 Woodchuck; 2 Sloths; 2 Pouched Rats; 1 Rat Kangaroo. Total, 78 specimens, received in the flesh.

CHARLES B. CORV, Boston, Mass.
2 West Indian Bats.

W. J. HUMMER, Morrison, Iowa.
1 Red Bat.

STEWART LEWIS, Newton, N. J.
3 Squirrels and 1 Woodchuck.

GEORGE R. MCKENZIE, Glen Spey, N. Y.
1 fine male Elk.

MRS. MALLISON, New York City.
1 Humboldt Monkey.

DR. EDGAR A. MEARNES, U. S. A., Fort Snelling, Minn.
3 Jackass Hares.

DR. JOHN I. NORTHROP, School of Mines, Columbia College, New York City.
1 Large-eared Bat, from the Bahamas.

JAMES RICHALTON, Maplewood, N. J.
1 Manx Cat.

JENNESS RICHARDSON, Am. Mus. Nat. Hist., New York City.
1 skull of Babiroussa; 2 Moles.

WILLIAM M. RICHARDSON, Am. Mus. Nat. Hist., New York City.
4 Ground Squirrels.

CLARENCE B. RIKER, Maplewood, N. J.
5 skins of Brazilian Bats.

JOHN ROWLEY, JR., Hastings, N. Y.
5 Squirrels, 1 Mouse and 2 Hares.

MRS. D. W. STERRELL, New York City.
1 Angora Cat.

W. E. D. SCOTT, New York City.
55 skins, with skulls, mostly from Florida; 1 Brown Bat, New York.

- CLARENCE A. SMITH, New York City.
28 skins, with skulls, from Florida, Connecticut, and New York.
- DR. F. TUCKERMAN, Amherst, Mass.
2 Monkeys.
- WILLIAM WALLACE, Am. Mus. Nat. Hist., New York City.
13 House Rats.

BY EXCHANGE.

- WILLIAM DUTCHER, New York City.
6 Squirrels and 2 Field Mice.
- GUSTAVE KOHN, New Orleans, La.
32 skins, with skulls, of Hares, Squirrels and Field Mice, from Louisiana.
- LOUIS MOLNARE, Hungary.
5 skins, from Europe.
- MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.
12 skins of Squirrels, from various localities.
- JOHN ROWLEY, JR., Hastings, N. Y.
21 skins and 21 skulls, of Squirrels and Hares.
- CLARENCE A. SMITH, New York City.
27 skins and 25 skulls, chiefly from Florida and New York.
- ERNEST E. THOMPSON, Toronto, Canada.
5 skins and 3 skulls of Hares.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
6 skins and 2 skulls of Ground Squirrels.

BY PURCHASE.

- THROUGH DEPARTMENT OF TAXIDERMY.
7 skins and skulls.
- THROUGH MUSEUM EXPEDITIONS.
48 skins and 50 skulls, mostly from Florida.
- BY DIRECT PURCHASE.

3 Monkeys, mounted ; 60 skins, with skulls, of North American species, mostly from California ; 168 skins and 180 skulls, from Mexico. Also the following, purchased in the flesh, and prepared in the Department of Taxidermy : 24 Monkeys ; 6 Fruit Bats ; 1 Polar Bear ; 2 young Black Bears ; 1 Lioness ; 3 Pumas ; 1 young Otter ; 1 Binturong ; 1 Red Fox ; 1 Mexican Deer ; 1 Pronghorn Antelope ; 1 Capromys ; 4 Varying Hares ; 1 European Hedgehog.

Accessions to the Department of Birds.

BY DONATION.

- C. F. ADAMS, Champaign, Ill.
47 skins, from Borneo.
- WESTLEY AUSTIN, Rutland, Vt.
1 Snowbird.
- MORRIS BARNETT, New York City.
Collection of Eggs, from Connecticut.
- J. CARTER BEARD, New York City.
1 albino Scaup Duck.
- L. BELDING, Stockton, Cal.
7 skins, from California.

- C. L. BROWNELL, New York City.
1 Acadian Flycatcher.
- GEORGE C. CANTWELL, Lake Mills, Wis.
1 Leconte's Sparrow.
- CHARLES B. CORY, Boston, Mass.
12 skins from the West Indies.
- J. J. DALGLEISH, Edinburgh, Scotland.
9 skins from Arctic America.
- DEPARTMENT OF PUBLIC PARKS, New York City, through Dr. W. A. Conklin, Superintendent of the Central Park Menagerie.
1 Chinese Thrush; 1 Blackbird; 1 Toucan; 1 Cockatoo; 1 Blue Macaw; 5 Hawks; 1 Peacock; 2 Pheasants; 6 Rails; 1 European Plover; 1 Golden Trumpeter; 1 Canada Goose; 1 Brown Pelican; 5 Herons. Total, 22 specimens, received in the flesh.
- WILLIAM DUTCHER, New York City.
1 Blue Heron.
- W. H. EDWARDS, Amagansett, L. I.
2 Sharp-shinned Hawks; 1 Red-breasted Merganser.
- MRS. P. FULLER, New York City.
2 mounted Owls, from Niagara, N. Y.
- MRS. F. P. GILBERT, New York City.
1 Mexican Parrot.
- F. M. GILBERT, Evansville, Ind.
3 White Fan-tailed Pigeons.
- CHARLES J. HAYNES, Tarrytown, N. Y.
1 skin of Flamingo.
- GEORGE N. LAWRENCE, New York City.
1 albino Ruffed Grouse.
- LEVERETT M. LOOMIS, Chester, S. C.
42 skins from South Carolina.
- D. G. NEWELL, New York City.
4 Carrier Pigeons and 7 Barbs; 1 Turkey.
- D. E. NEWELL, New York City.
4 Bronzed Turkeys; 2 Black Barb Pigeons; 1 Dun Barb Pigeon; 4 Black Carrier Pigeons; 1 Dun Carrier Pigeon.
- DR. JOHN I. NORTHROP, School of Mines, Columbia College, New York City.
5 specimens of *Icterus noxthropi*, including the types of the species, from Andros Island, Bahamas.
- G. ARTHUR PALMER, New York City.
1 living Carolina Rail.
- JENNESS RICHARDSON, Am. Mus. Nat. Hist., New York City.
2 South American Hummingbirds, and 6 North American birds.
- JOHN ROWLEY, JR., Hastings, New York.
17 skins, from New York.
- W. E. D. SCOTT, New York City.
440 skins, nearly all from Florida.
- GEORGE B. SENNETT, Erie, Pa.
1 Fulvous Tree Duck; 2 Massena Quails, and 2 Bronzed Grackles.
- CLARENCE A. SMITH, New York City.
3 Coots; 1 Wren.

- E. W. SMITH, Orange, N. Y.
 1 Red-breasted Nuthatch; 1 Yellow-bellied Woodpecker.
- ERNEST E. THOMPSON, Toronto, Canada.
 4 Bank Swallows.
- LOUIS WEISMANN, New York City.
 3 bird's nests.

BY EXCHANGE.

- GUSTAVE KOHN, New Orleans, La.
 43 skins, from Louisiana.
- LOUIS MOLNARE, Hungary.
 81 European birds.
- DR. JOHN I. NORTHROP, School of Mines, Columbia College, New York City.
 27 specimens, from Andros Island, Bahamas.
- CLARENCE A. SMITH, New York City.
 1 Ward's Heron and 1 Brown Crane, from Florida.
- ERNEST E. THOMPSON, Toronto, Canada.
 32 specimens from near Toronto.
- UNITED STATES NATIONAL MUSEUM, Washington, D. C.
 25 specimens, mostly from tropical America.
- JOHN WHITEHEAD, London, England.
 8 specimens from Borneo.

BY PURCHASE.

- THROUGH MUSEUM EXPEDITIONS.
 181 specimens, mostly from Florida, collected by Frank M. Chapman.
- THROUGH DEPARTMENT OF TAXIDERMY.
 13 specimens, received in the flesh.
- BY DIRECT PURCHASE.
 76 specimens from Louisiana; 228 specimens from Mexico; 133 specimens from Costa Rica; 120 specimens from various localities in South America.

Accessions to the Department of Reptiles, Fishes and Invertebrates.

BY DONATION.

- J. P. H. BELL, Gainesville, Fla.
 Collection of Reptiles from Florida.
- WILLIAM BEUTENMÜLLER, Am. Mus. Nat. Hist., New York City.
 1 Snake, from Venezuela; 1 Embryo Shark.
- A. J. CONSTANTINE, New York City.
 1 Sawfish Saw.
- DEPARTMENT OF PUBLIC PARKS, through Dr. W. A. Conklin, Superintendent of the Central Park Menagerie.
 8 Pythons; 3 Iguanas; 2 Alligators; 1 African Snake.
- JOHN C. KLINE, New York City.
 Specimens of West Indian Corals.
- CLARENCE A. SMITH, New York City.
 20 Reptiles, in alcohol, from Florida.

BY PURCHASE.

THROUGH MUSEUM EXPEDITIONS.

24 Reptiles from Florida, collected by Frank M. Chapman.

BY DIRECT PURCHASE.

1 Boa Constrictor; 2 young Alligators; 3 Pythons; collection of Reptiles from Florida.

DEPARTMENT OF TAXIDERMY.

The most notable piece of work done during the past year was the mounting of the great Indian Rhinoceros "Bomby." The skin when removed from the animal weighed 750 pounds. After immersion for four years in an antiseptic solution it was removed, and found to be perfectly preserved. In preparing it for mounting, the skin was thinned down to an even thickness of a quarter of an inch, this operation requiring the labor of two men for two months. In mounting, a wooden manikin was used, made to represent as nearly as possible the natural shape of the animal, upon which the folds and ridges were moulded in clay. Over this completed model the skin was then drawn, and the mounting finished in a highly satisfactory manner.

Of the 149 mammals received in the flesh a few have been mounted, 55 others prepared for mounting, and 89 made up as skins or skeletons for the Study Collection. Of many of the more important specimens plaster casts were taken while still in the flesh, as a guide in mounting the specimens later; these casts also afford to artists valuable material for studies. Among those mounted from fresh specimens is the young Hippopotamus received from the Central Park Menagerie.

A Muskrat group has been prepared and placed on exhibition during the year. It is designed to illustrate the habits of this peculiar species, and represents a section of a river bank showing a burrow and its interior construction. A winter house, built in the water, of grass and other vegetable matter, is also shown. It has been cut down on one side to exhibit the nest within.

During the summer the Mammal Collection was removed from the lower hall to the bird floor for temporary storage during the completion of the new mammal hall. Although in general, the collection is in a good state of preservation, 172 specimens were found in need of more or less repair, and were placed in good order. Repairs have also been made on many of the skeletons, including the Mastodon and the Elephant Jumbo, which is now again on exhibition at the Museum. The Irish Elk, which for many years has been in bad condition, has been entirely remounted, and the few missing parts artificially restored. Also 644 skulls of small mammals have been prepared for the Study Collection.

Of birds, 89 specimens have been mounted and placed on exhibition, and 48 made into skins for the Study Collection, and skeletons made of six others. The mounted birds include a Cassowary and various European and South American species. Work on the Bird Groups has been continued and a number of them completed, including those illustrating the Pied-billed Grebe, the Laughing Gull, the Ruffed Grouse, and the Labrador Duck. The latter is a winter study made on Long Island, where this now supposed extinct species was formerly a more or less common winter migrant.

DEPARTMENT OF ENTOMOLOGY.

Most of the time during the year has been devoted to the preparation and gathering of specimens for the "Jesup Collection of Economic Entomology," and the Study and Exhibition Collections of Insects. In both these collections much progress has been made; to the Economic Collection, thirty-six groups have been added, and to the Study and Exhibition Collections, about two thousand five hundred specimens have been added. Five large and twelve small Economic Insect Groups have been completed and placed on exhibition, and forty-four groups are in progress (including those collected in 1889), and are expected to be finished and ready for exhibition before the summer. These groups will be exhibited with the "Jesup Collection of Woods"; they represent the life histories and other phases of insects injurious to forest and shade trees, and are illustrated by their food-plants, made in wax, showing the injury done to the trees by the insects. This feature will not only prove useful to practical foresters, but also will be of educational value to students of entomology and the public.

During the latter part of the year the collection of insects of the late Dr. S. Lowell Elliot was generously presented to the Museum by Mrs. Margeritha Schuyler Elliot. The collection is a very fine one, and consists of one hundred and forty-five cases, 14 x 24 inches, containing about six thousand six hundred specimens of Butterflies and Moths, in absolutely perfect condition, and fifteen cases containing about four hundred specimens of insects of various orders. Almost all the Butterflies and Moths of this collection are bred specimens, and many of our rarer *Lepidoptera* are represented by entire broods, showing the variation and intergradation of the species. The suites of *Datanas* and *Limacodes* are probably the largest and finest that have ever been brought together. Almost all the specimens in this collection have been collected in New York City and vicinity.

Notwithstanding the satisfactory progress that has been made, much yet remains to be done to bring the Museum Collection of

insects up to the proper standard of completeness. Additional collections of North American Butterflies and Moths, Beetles and insects of various other orders, would be of great help and importance to the department, and it is hoped that this may be taken into consideration by friends of the Museum, and the deficiency remedied.

Accessions to the Department of Entomology.

THROUGH MUSEUM EXPEDITIONS.

About 2500 specimens of insects of various orders from New York City and vicinity.

BY DONATION.

Mrs. MARGERITHA SCHUYLER ELLIOT, Brooklyn, New York.

About 6600 Butterflies and Moths, and about 400 insects of various orders, collected by the late Dr. S. L. Elliot.

OSCAR THORN, New York City.

1 specimen of Hickory destroyed by the *Cyllene picta*.

TUDER JENKS, Bryn Mawr, Yonkers, N. Y.

20 specimens of insects.

N. W. NOCK, Mappsville, Va.

1 Mole Cricket.

G. B. SENNETT.

A few Butterflies from Texas.

A. WOODWARD, New York City.

About 200 specimens of insects from Mass.

IRVIN CADMUS.

1 Living Bird Spider from Baracoa, W. I.

JAMES ANGUS, West Farms, New York City.

10 specimens of *Lepidoptera*.

DEPARTMENT OF ARCHÆOLOGY AND ETHNOLOGY.*

WORK DONE UPON THE COLLECTIONS.—In the last Annual Report it was stated that Dr. Frederick Starr had been engaged to arrange, label and catalogue the several collections in this department. He has been at work during the greater part of the year. The collections have all been carefully examined. The duplicate material has been laid aside, and the remainder has been provided with permanent numbers. The special catalogues of the collections, some seventeen in number, have been transcribed into large volumes, three of which are nearly filled. By this numbering and recording the collection is insured against loss and confusion when it shall be transferred to the new building. A system of card labels has been adopted. These are well printed in bold type. Some of them are already in the cases with specimens, but most of them will not be used until the collections are located in new cases. To increase the interest of the specimens, and to make them more readily understood, a number of pen and ink

sketches have been made, covered with glass, and neatly bound. These will be laid alongside the specimens in their final arrangement on exhibition.

DONATIONS.—From time to time, for several years past, the Museum has received donations to this department from individuals. Some of these have not been acknowledged in the Annual Reports. A list of such gifts is appended to this report, and the thanks of the Museum are given to the various donors. In the same list are also included gifts from individuals received during the year.

THE MEARNS COLLECTION FROM ARIZONA.—Dr. Edgar A. Mearns has given to the Museum a large and interesting collection of specimens from the Cliff Dwellings and old Pueblo ruins of the Verde Valley, Arizona. The series includes objects of stone, bone and shell, pottery vessels, materials used in the construction of the Cliff Dwellings, articles of apparel, cords, fabrics, etc., etc., and a great amount of food materials, both vegetable and animal, found in these interesting ruins. Dr. Mearns made a large number of photographic negatives of these old dwelling places, and has consented to the Museum having a set of prints made from them. These pictures will add greatly to the interest of this collection.

CARD CATALOGUE.—As an experiment a card catalogue is being prepared of the Emmons and Bishop Collections from Alaska and British Columbia. Such a catalogue it is believed is of greater value and more permanence than any book record. It will also be of great assistance in the preparation of a bulletin of the department, relative to the Alaska series. No publication work has yet been done in connection with the Department of Archæology and Ethnology. It is, however, greatly to be desired.

LECTURES.—Two courses of three lectures each have been delivered during the year by Dr. Starr. The first course upon The Stone Age, considered the several topics: (*a*) The Man of the Stone Age; (*b*) The Mounds and their Builders; (*c*) Mammoth, Mastodon and Man. The second course was upon the subject: Dress. (*a*) Deformations; (*b*) Dress—its Origin and Development; (*c*) Ornament and Religious Dress. These lectures were illustrated with stereopticon views, largely taken from objects in the collections of the department. They were intended for the members of the Museum and their friends.

AN ARMENIAN COLLECTION is at present offered for sale in this city at a moderate sum. It illustrates the late Bronze and early Iron Ages in Russian Armenia, and would valuably supplement the Stuart Collections (deMorgan and Feuardent), which finely represent the early and late Stone Ages and the Age of Bronze

in western Europe. It is a property which the Museum should own.

CONDITION.—The cases are overcrowded, and thousands of specimens are stored away in boxes and trays. These all need frequent examination to prevent loss and damage from moths, etc. The crowded condition of the cases do not admit of proper display of the specimens. Plans for the permanent arrangement of the collections have been submitted to the management, and it is hoped that the whole series may soon be removed to commodious quarters, where the specimens may be suitably mounted and effectively displayed.

List of Specimens donated to the Department of Archaeology and Ethnology, but not acknowledged in preceding Annual Reports, and of Specimens donated in 1890.

- ABBOTT, ABIEL. 4 Australian Spears.
 ABBOTT, C. C. Palæolithic Implements, N. J.
 AUCHINCLOSS, HUGH. Model of Chinese Tomb. Ethnological Collections, Canada, etc.
 AYXERE, LOUIS H. Lining of Egyptian Tomb.
 BACHELER, O. R. Sacred Books, India.
 BAKER, F. Stone Spearhead.
 BARCLAY & CO. Jivaro's Head.
 BARLOW, MRS. S. L. M. 2 Stone Axes.
 BELL, MRS. Package Poisoned Arrows for Blowgun.
 BOOTH, HENRY. Woven Jar, Arizona.
 COBB, CARLOS. Stone Implements, Northern New York.
 CONKLIN, W. A. Boomerang, Australia.
 CONSTABLE, JAS. M. 10 War Clubs, Sioux.
 DALRYMPLE, Dr. E. A. Pottery of Virginia Indians.
 DAVIS, H. Celt, etc., 2 specimens.
 DAVIS, J. P. Carved Wooden Figure, Peru.
 ELLIOT, D. G. Skull, Socorro, N. M.
 FIZZLEMESY, Hon. PHILIP. Canoe, Brit. Guiana.
 CAMP, JOHN L. Stone Carving, Pa.
 CLARK, WM. 4 Stone Implements, Hawaiian Islands.
 DOWNIE, MRS. D. Palm-leaf Book, India.
 GIBBS, MRS. THEODORE K., N. Y. City. War Bonnet of Nez Persez Indians. Pottery and Stone Implements, Kentucky.
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 MEARNS, Dr. E. A. Collection from Verde Valley Cliff Dwellings, Arizona. Skull of Child, Arizona. Indian Relics.

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 PERCIVAL, SPENCER G. Flints, England. Stone Hatchet, Canada.
 PYNE, PERCY R. Brantz-Mayer Collection.
 DE RIQUES, ERNEST. 34 Indian Relics, Ohio and Kentucky.
 SCUPHAM, J. R. Mortar and Pestle.
 STEVENSON, J. J. Carving of Head.
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 WADHAUS, E. Stone Spear, N. Y.
 WILSON, C. H. Indian Pouch.
 WOOD, WALTER. 1 Spearhead, 1 Gorget, N. Y.

THE LIBRARY.

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The issue of books, for the use of readers, was larger than in any former year.

The additions made were both numerous and valuable, as usual by donations, solicitation, exchange and purchase.

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By Application (Librarian).....	293 vols.	367 Nos. and Parts.	34 Pamphlets.
Exchange (Bulletin).....	57	365	22
“ (Duplicates).....	24	83	1
Donations.....	189	135	248
Purchase.....	224	840	89
Total.....	787	1790	394

The following gifts of special importance should be mentioned :

George H. Brown, New York City.—Elliot's Birds of North America.

Elliot's Monograph of the Pittidæ and Supplement.

“ “ “ Tetraoninæ, or the Family of the Grouse.

Mrs. Samuel Lawrence, New York City.—14 volumes.

Waldemar Kelck, New York City.—8 volumes.

Sanderson Smith, New York City.—Geological Map, and a large number of pamphlets.

Sir J. W. Dawson, Montreal, Canada.—Set of his writings.

Geological Survey of New Jersey, New Brunswick.—Atlas of New Jersey.

Musée D'Histoire Naturelle de Marseille.—3 volumes.

Königlich-Baierische Akademie der Wissenschaften München.—19 volumes.

Provinzial-Verein für Wissenschaft und Kunst, Münster.—19 volumes.

Provinzial Museum, Königsberg.—19 volumes.

L'Académie Royale de Copenhague.—12 volumes.

Koninklijke Akademie van Wetenschappen Amsterdam.—41 volumes.

Asiatic Society of Bengal.—9 volumes.

The Canadian Horticulturist Society.

The Geological Society of London.

Institute Royal Géologique de Suède.

Entomologiska Föreningen.

Deutschen Geol. Gesellschaft.

The Australian Museum.

See list for other numerous and generous contributions, etc.

A number of very rare and valuable books were obtained for the Library at the auction sales of the S. L. M. Barlow and J. Carson Brevoort Libraries.

Seventy-nine (79) volumes added to the Conchological Section, the gift of Miss Catharine Lorillard Wolfe.

Three hundred and thirteen (313) volumes were bound this year through the generosity of the Trustees and Miss Catharine Lorillard Wolfe.

The Library now contains over thirteen thousand (13,000) volumes.

Number of Volumes in Library, January 1st, 1890.	12,000
Added this Year.	1,273
Total	13,273

Through the thoughtfulness of the President, who directed the Librarian to make a tour of the public libraries near and in New York City, libraries in the following cities were visited: New Haven, Providence, Boston, Cambridge, Salem, Philadelphia, Baltimore, Washington, Princeton, New Brunswick and Brooklyn, for the purpose of gathering information and new ideas for use in the construction of the new library room.

Accessions to the Library.

BY DONATION.

Through the late Miss CATHARINE LORILLARD WOLFE.

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INCORPORATION.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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

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

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

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

SEC. 3. Said Corporation may purchase and hold, or lease any real and personal estate necessary and proper for the purposes of its incorporation, provided they shall not hold real estate which shall exceed one hundred thousand dollars in value.

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.*

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, accepted resignation, or removal from the State 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 third 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.

The officers of the said Corporation shall be a President, a First and Second Vice-President, a Secretary, and a Treasurer, an Executive Committee, an Auditing Committee, and a Finance Committee, all to be elected from the Trustees. All these officers shall hold their office for one year, and until their successors shall be elected.

The election of officers shall be by ballot, and the persons having a majority of the votes cast shall be deemed duly elected.

ARTICLE V.

The President, and in his absence the First or Second Vice-President, shall preside at all the meetings of the Museum and of the Trustees.

The Secretary shall keep a record of the proceedings of the Trustees, of the Executive Committee, and of the Auditing Committee, and shall preserve the seal, archives, and correspondence of the Museum, shall issue notices for all the meetings of the Trustees, and attend the same.

The Treasurer shall receive and disburse the funds of the Museum. He shall keep the accounts of the Museum in books belonging to it, which shall be at all times open to the inspection of the Trustees. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the annual meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

ARTICLE VI.

The Executive Committee shall consist of seven, of whom the President and Secretary shall be two. 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.

ARTICLE VII.

The Auditing Committee shall consist of three, and it shall be their duty to examine and certify all bills presented against the Corporation; and no bills shall be paid unless first approved in writing by at least two members of this Committee.

ARTICLE VIII.

The Finance Committee shall consist of three, including the Treasurer, and 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.

ARTICLE IX.

A majority of the Trustees for the time being 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 X.

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.

Such By-Laws, when once adopted, 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 XI.

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 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, 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 XII.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees; nor by the votes of less than two-thirds 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 every day except Sunday, 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 gentlemen 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 shall (except for current expenses) be incurred by the Trustees of the Museum, nor by any of its committees, officers, or employees, unless there are at the time sufficient moneys in the Treasury to pay the same.

V.

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.

PATRONS.

By the Payment of One Thousand Dollars.

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, JR.
 JOHN D. WOLFE.*
 ABRAM S. HEWITT.
 C. VANDERBILT.
 J. PIERPONT MORGAN.
 CHARLES LANIER.
 D. JACKSON STEWARD.
 EDWARD CLARK.*
 A. G. PHELPS DODGE.
 JAMES BROWN.*
 A. T. STEWART.*
 S. WHITNEY PHOENIX.*
 BENJAMIN H. FIELD.
 WILLIAM T. BLODGETT.*
 OLIVER HARRIMAN.
 ROBERT BONNER.
 JAMES B. COLGATE.
 ALEXANDER STUART.*
 WILLIAM A. HAINES.*
 BENJAMIN AYMAR.*
 RICHARD ARNOLD.*
 JOSEPH H. CHOATE.
 JONATHAN THORNE.*
 Miss PHEBE ANNA THORNE.
 D. O. MILLS.
 JOHN A. C. GRAY.
 HEBER R. BISHOP.
 CHAS. G. LANDON.
 WILLIAM E. DODGE.*

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.*
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 A. H. BARNEY.*
 COLEMAN T. ROBINSON.*
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 JOHN ANDERSON.*
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 WILLIAM WALDORF ASTOR.
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 JESSE SELIGMAN.
 THEO. ROOSEVELT.
 OSWALD OTTENDORFER.
 J. HAMPDEN ROBB.
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 H. J. JEWETT.
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 D. G. ELLIOT.
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 C. P. HUNTINGTON.
 GEO. W. VANDERBILT.
 EDWARD D. ADAMS.
 WILLIAM C. SCHERMERHORN.
 JOHN J. CROOKE.

* Deceased.

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 RICHARD T. WILSON.
 JOHN E. PARSONS.
 FRANCIS O. MATTHIESSEN.
 A. J. FORBES-LEITH.

GEORGE BLISS.
 M. C. D. BORDEN.
 ARCHIBALD ROGERS.
 GEORGE C. COOPER.

Honorary Patrons,

DR. EDGAR A. MEARNS, U. S. A.
 MRS. S. LOWELL ELLIOT.

FELLOWS.

By the Payment of Five Hundred Dollars.

SAMUEL WILLETTS.*
 ROBERT GORDON.
 HOWARD POTTER.
 C. V. S. ROOSEVELT.*
 CHARLES W. GRISWOLD.*
 SAMUEL F. B. MORSE.*
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 CORTLANDT FIELD BISHOP.

Honorary Fellow,

JAMES THOMSON.

* Deceased.

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By the Payment of One Hundred Dollars.

JOHN E. ALEXANDRE.
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 Mrs. B. L. ANDREWS.
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 THOMPSON DEAN.

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 S. DeJONGE.
 J. H. DeMOTT.
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 W. A. HAINES, Jr.
 Miss E. S. HAINES.
 Mrs. W. A. HAINES.
 WILLIAM M. HALSTED.
 BENJAMIN HART.
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 JACOB HAYS.
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 THEO. D. HOWELL.
 WILSON G. HUNT.
 C. P. HUNTINGTON.

* Deceased.

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 GEORGE KEMP.
 RUDOLPH KEPPLER.
 WM. M. KINGSLAND.
 A. C. KINGSLAND.
 GEORGE T. KNIGHT.
 JAMES KNIGHT, M.D.
 GEO. F. KUNZ.
 JOSEPH LAROCQUE.
 JAMES M. LAWTON.
 STEPHEN R. LESHER.
 JAMES LOW.
 EDWARD LUCKEMEYER.
 E. H. R. LYMAN.
 ALEXANDER MAITLAND.
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 PETER MARIE.
 WILLIAM C. MARTIN.
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 THOMAS H. O'CONNOR.
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 H. O'NEILL.
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 THOMAS W. STRONG.
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 Dr. HENRY F. WALKER.
 BENJAMIN WELLES.
 FREDERICK B. WENDT.
 LOOMIS L. WHITE.

* Deceased.

ED. KIRK WILLARD.
 S. C. WILLIAMS.
 JOHN T. WILLETS.
 Hon. BENJAMIN A. WILLIS.
 EDWARD WINSLOW.

JOHN WOLFE.
 HENRY H. WOTHERSPOON.
 JOHN H. WYMAN.
 MRS. JOHN J. WYSONG.

Honorary Life Members,

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 W. W. COLE. MRS. FLORENCE HOWLAND.
 HOFRATH A. B. MEYER.

ANNUAL MEMBERS.

By the Payment of Ten Dollars Yearly.

Abbott, Frank, M.D.	Auchincloss, Mrs. E.	Beer, Julius
Abegg, Henry	Auchincloss, E. S.	Beers, M. H.
Agnew, Alex. McL.	Auchmuty, R. T.	Bell, Hon. Isaac
Agnew, Hon. John T.	Austin, William	Benedict, James H.
Aitken, John W.	Aufhauser, Samuel	Bend, George H.
Aldrich, Mrs. H. D.		Benjamin, John
Alexander, Henry M.	Babcock, Samuel D.	Bentley, Charles E.
Alexander, Jas W.	Bailey, N. P.	Bentley, Norman S.
Alexander, John F.	Baird, John	Berdell, Theodore
Allen, Calvin H.	Baldwin, C. C.	Bernheim, Abram C.
Allen, Chas. S., M.D.	Baldwin, Edward	Bernheimer, Adolph
Amend, Bernard G.	Baldwin, J. G., M.D.	Bernheimer, Isaac
Amsinck, Gustave	Baldwin, O. D.	Bernheimer, Simon
Amy, H.	Baldwin, W. D.	Berrian, Charles M.
Anderson, Arthur A.	Baldwin, William	Bianchi, F.
Anderson, E. Ellery	Ballin, Gustav	Bien, Julius
Anderson, Henry H.	Bangs, L. Bolton, M.D.	Billings, O. P. C.
Andreini, J. M.	Banta, C. V.	Bissinget, Philip
Appleton, Daniel	Banyer, Goldsborough	Blagden, George
Appleton, W. W.	Barnard, Horace	Blakeman, Birdseye
Appleton, Wm. H.	Barnes, E. W.	Blanchard, G. R.
Archbold, John D.	Barnes, John S.	Bliss, George
Armour, H. O.	Barnes, Theo. M.	Bliss, George T.
Arnold, E. S. F., M.D.	Barney, Chas. T.	Bloodgood, John H.
Arnold, John H. V.	Barron, John C., M.D.	Bogert, Albert G.
Arnoux, William H.	Beckel, Joseph	Bogert, Henry A.
Aronson, Rudolph	Beebe, Chas. E.	Bogert, Stephen G.
Atterbury, J. T.	Beckman, Gerard	Bond, Frank S.

- Bonn, William B.
 Booss, Frederick
 Borg, Simon
 Boskowitz, I.
 Boulton, Wm. G.
 Bouvier, John V.
 Bowdoin, G. S.
 Bradley, S. R.
 Bradley, William H.
 Braker, Conrad, Jr.
 Brandon, Edward
 Breslin, James H.
 Brinckerhoff, Daniel D.
 Bristol, John I. D.
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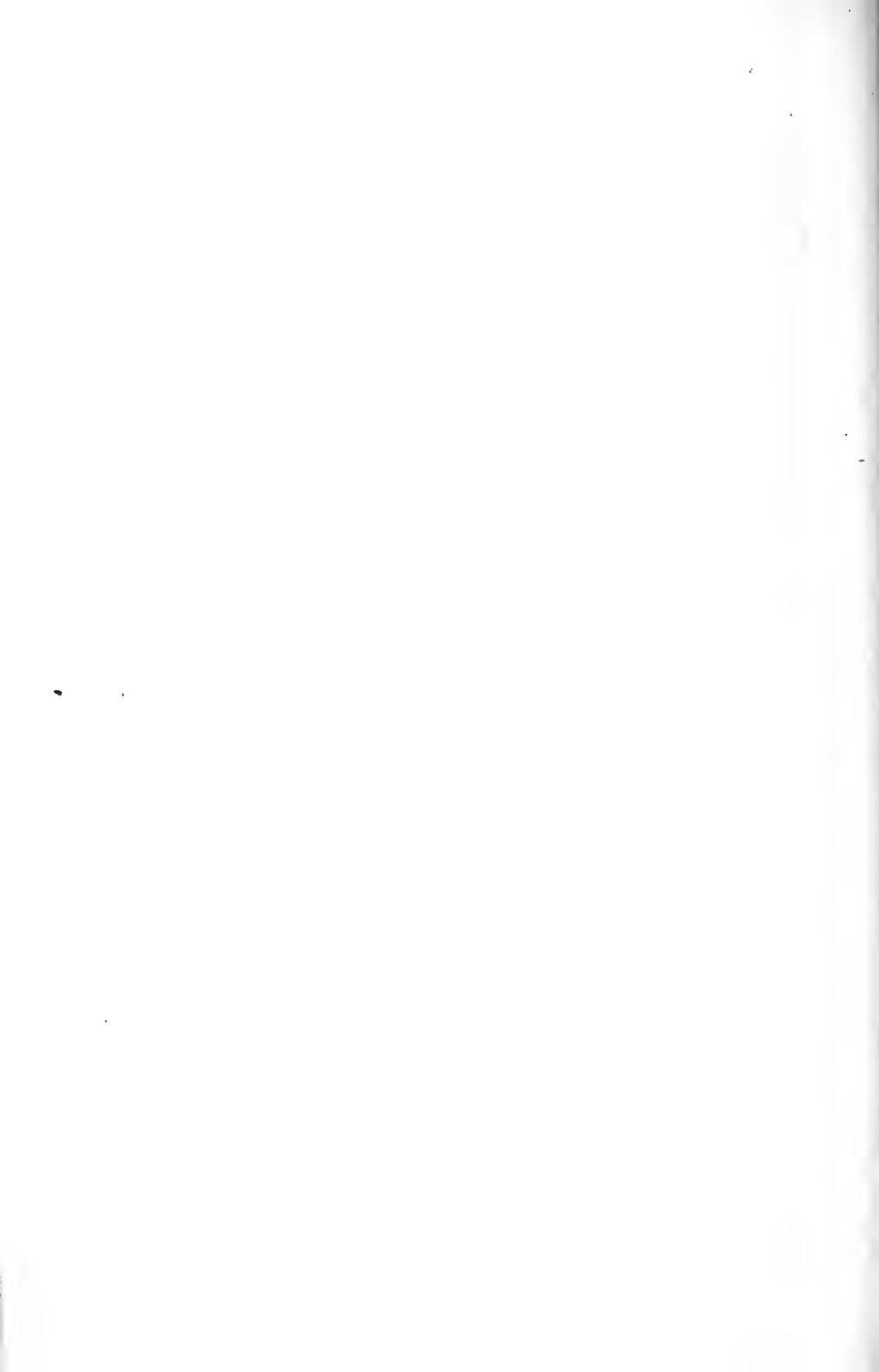
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In Memoriam.

At the Quarterly Meeting of the BOARD OF TRUSTEES of the AMERICAN MUSEUM OF NATURAL HISTORY, held November 17th, 1890, the following minutes, in regard to the death of

Mr. HUGH AUCHINCLOSS,

were unanimously adopted, ordered to be recorded in full, and that a copy be sent to the family of the deceased.

Since our last Quarterly Meeting, one of those associated with us in the Trusteeship of this Institution, has passed from the scene of life's duties.

Mr. HUGH AUCHINCLOSS died on June 8th, 1890. He became a Fellow of the A. M. N. H. in 1871; was elected Secretary in 1879, and remained as such for a period of eight years, until compelled to resign the office by reason of failing health.

In associating himself with us, Mr. AUCHINCLOSS was not prompted by any peculiar interest in any special branch of science, but by the larger view of affording support and encouragement to an enterprise embracing a wide field; designed to aid in freeing his native city from something like scientific aridity; and to establish a centre of scientific interest and entertainment in the midst of the manifold life of a great metropolis.

Mr. AUCHINCLOSS had passed the appointed bounds of human life; the three score years and ten allotted to man.

Born in this city when the population, enterprise and business activities were confined chiefly to the lower end of the island, his life covered that period of phenomenal growth which has been one of the characteristic features of modern history, and not only of growth, but also of change from a condition of somewhat primitive simplicity to one which by contrast, while marked by enormous energy, may be characterized in part as artificial, tawdry and pretentious; yet astonishing when comprised within the limits of a single human life.

Our departed friend was fortunate in having placed before him in the family life an example of the highest probity in one whose paternal name he bore. His training in strict business ideas and habits touched the highest standard of commercial integrity, and doubly contributed to the formation of some of the best elements of his character. Simple and unpretentious in his habits of life, Mr. AUCHINCLOSS possessed solid qualities which entitled him to the just consideration and confidence of his associates.

His relations in business, in financial institutions and religious trusts, are satisfactory proofs of this.

He inherited the old Scotch loyalty to family traditions and relations; his kindly and genial qualities were recognized by all, and his associates recall these marked features of his character with tender regret to his memory.



THE
AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and 8th Avenue.)

ANNUAL REPORT OF THE PRESIDENT,
ACT OF INCORPORATION,
CONSTITUTION, BY-LAWS AND LIST OF MEMBERS
FOR THE YEAR 1891.



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TWENTY-THIRD ANNUAL REPORT.

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

My report presents a brief outline of the progress made and the work accomplished during the past year.

REPORT OF TREASURER.—The report of the Treasurer for the year 1891 shows the receipts for the year to have been \$64,913.17, which is inclusive of the balance from 1890 of \$1,062.91.

Of its receipts, \$25,000 has been received from the city and \$39,913.17 from other sources.

The expenditure for maintenance was \$50,824.41, and for endowment \$21,067.92, leaving a deficiency of \$6,979.16.

LUMHOLTZ EXPEDITION.—The exploration in the region of the Sierra Madre Mountains, conducted by Dr. Carl Lumholtz, is being carried forward under the auspices of the Museum ; at, however, no expense to the institution—the necessary amount to defray the cost of the undertaking having been subscribed by interested friends ; and it is expected that the results will add materially to our collections.

It affords me pleasure to acknowledge the subscriptions of Mr. Henry Villard, Dr. William Pepper, Mr. James H. Jones and Mr. Henry G. Marquand in aid of the Lumholtz Expedition ; and the courtesy accorded by Mr. J. W. Reinhart, Vice-President of the A., T. & Santa Fé R. R., conjointly with the Wells Fargo Express, in the transportation of material collected by the expedition.

The *Illustrated American* Publishing Company of this city has also sent an expedition to explore the cliff dwellings of the San Juan region in Colorado and New Mexico, and has secured experienced, scientific assistants for this purpose. The Museum

was invited to participate in the work and has a representative especially detailed to collect the mammals, birds and other animals of the regions visited by the expedition.

The work of removal into the new building is still in progress, and it is expected that during the current year all the specimens will be arranged for exhibition and the entire building opened to the public ; provided, however, additional appropriations can be obtained from the city in order to meet the largely increased expenses.

MEMBERSHIP.—There have been added to the list of Patrons Messrs. Archibald Rogers, Appleton Sturgis, George C. Cooper, William C. Whitney and Theodore A. Havemeyer.

Mr. Wheaton B. Kunhardt has become a Fellow, and Messrs. James J. Goodwin, John T. Willets, Fred. H. Comstock, John Greenough, Edward Uhl, F. W. Devoe, Percival Knauth, Robert T. Willets and A. K. Bolan have become Life Members.

It is hoped that during the next twelve months the Annual Membership may be greatly increased—this source of income being of the greatest importance.

CASES.—The casing of the new building has been carried on as far as the city appropriation for this purpose would allow, but the sum was not sufficient to complete all the floors ; and in order to finish all the halls, and to make the Ethnological Collection available for exhibition, the Executive Committee directed that the balance of the cases required should be built, the cost of which has been nearly \$10,000.

In this connection I beg to call the attention of the Board to the large amount paid by the Trustees for cases, and the repairs to the same, during the period from 1880 up to the present time, aggregating some \$45,000 in addition to the foregoing amount. It does not seem just that the funds needed so urgently for the enlargement of the collections should be used for this purpose. The Museum should be reimbursed by the city for this outlay.

LECTURE DEPARTMENT.—In addition to the usual lectures to the teachers of our public schools, given under the auspices of

the State Department of Public Instruction, a course of lectures to members was given by Professor A. S. Bickmore during the spring and fall. In conformity with the contract with the foregoing department, free lectures were delivered on the afternoons of Thanksgiving Day, Christmas, New Year's and Washington's Birthday. Large numbers were unable to gain admission to the lecture room, which has a seating capacity for an audience of one thousand persons. It would, therefore, seem necessary to provide in the near future a much larger lecture hall.

It is very desirable that the present hall should be utilized for additional exhibition space, as was originally intended, and that arrangements should be made for a new lecture hall at the north side of the old building.

It is suggested that during the coming year arrangements be made to add a course of lectures based upon the varied collections in the Museum.

It has occurred to me that it would be wise to consider the propriety of initiating a series of short, informal lectures explanatory of the Museum collections; to be given by our several Curators on Saturday afternoons to classes and schools. I am impressed with the belief that the measure would prove of educational value and also popular, and largely increase the value of the collections and the influence of the institution.

In this connection, I also suggest the advisability of adopting some system of coöperation on the part of this Museum with other educational institutions of the city.

GEOLOGICAL DEPARTMENT.—The cataloguing and labeling of the Palæontological Collection has been steadily carried forward.

The collection of minerals has been increased by the purchase of some very valuable specimens, which will add largely to the attractiveness of the mineral exhibit. The Spang Collection of Minerals has been added by purchase, and when arranged for public view will, in connection with the gems, form a special object of attraction to our visitors, and place this department in the front rank. The donations to this department have been of varied value and interest.

The desk cases in the new building, west wing, are now available for the arrangement of the minerals, and this work is progressing favorably.

DEPARTMENT OF MAMMALIAN PALÆONTOLOGY.—In conformity with the authority conferred by the Board, the Executive Committee has created the Department of Mammalian Palæontology, under the charge of Professor Henry Fairfield Osborn as Curator. This department has been formed under exceptionally favorable circumstances, and provides for the important work of original research. The material acquired from the expedition of last spring yields valuable results; another expedition is in the field, from which most important developments may be expected.

DEPARTMENT OF MAMMALS, BIRDS AND REPTILES.—The Department of Mammals and Birds has been increased largely during the year, it having received over 800 specimens of mammals, and more than 1300 birds, 200 of which were the result of the field work of Mr. F. M. Chapman, Assistant Curator of this department, near Corpus Christi, Texas; and 450 are from the expedition of Dr. Lumholtz in the Sierra Madre.

Some very desirable material has been offered for purchase, but lack of money has prevented its acquirement.

The most noteworthy gifts to this department are a collection of 125 mammals from Texas and northeastern Mexico, presented by Mr. George B. Sennett; 32 mammals from Costa Rica, presented by Mr. George K. Cherrie; and 20 specimens sent by the Museo Nacional of Costa Rica. About 223 South American birds (mostly humming-birds) were presented by Peter Townsend Barlow, Esq. Mr. Leverett M. Loomis, of Chester, S. C., has also presented a collection of 200 very desirable specimens from South Carolina.

A large number of valuable specimens of both mammals and birds have been received from the Central Park Menagerie, through the Superintendent, Dr. W. A. Conklin. Marked progress has been made in identification and labeling of the collections, the labeling of the exhibit of South American birds having been finished.

The Study Collection of both mammals and birds is fully catalogued and arranged for ready access. In addition, the alcoholic collection of reptiles and fishes has been revised and placed in a safe and accessible condition; sixty specimens of reptiles have been added, of which forty were donated.

The collection of mounted mammals, stored for some months for want of exhibition space, has been transferred to its new quarters on the main floor and gallery of the new wing, which affords for this collection the long required space for its effective display.

During the year many hundred skulls of small mammals have been cleaned and made accessible for study, and several small skeletons of both birds and mammals have been mounted for exhibition by the osteologist of the department, who has also revised and repaired many of the skeletons previously on exhibition.

The outlook for the growth of these departments is not assuring for the current year, by reason of the want of funds; the work of this department and its related Department of Taxidermy will be mainly diverted to the preparation of material now on hand for increasing the exhibition collection.

DEPARTMENT OF ETHNOLOGY AND ARCHÆOLOGY.—The purchase of the James Terry Collection has been consummated at a cost of \$38,000.

This collection, comprising nearly 26,000 catalogue numbers, is eminently rich in material pertaining to the native races of the west coast of North America; particularly those of the region between Mexico and British Columbia. It contains a large number of objects not represented in any other collection; being the results of explorations in several thousand tombs, and extended research in the Columbia River Valley—the latter region yielding sculptures of great antiquity.

The Mississippi Valley is represented by upwards of 500 vessels from Missouri and Tennessee, of great ethnological interest, many of them being of unique design. Tennessee also furnishes a valuable series of stone pipes and stone implements; and the series from Wisconsin includes a choice collection of copper weapons.

The collection also contains interesting and valuable series from the Penobscot Valley, Maine, and from Connecticut and New York. All of the material from the mounds on Long Sault Island, St. Lawrence River, is to be found in this collection. The central portion of the State is represented by many pipes in pottery and stone; while Long Island, Westchester County and Staten Island have furnished nearly 2500 specimens.

The collection also embraces interesting examples from Alaska and the South Seas, including a specimen of the New Zealand Mere Mere emblem, forming the longest specimen of worked jade known.

The collection gathered by Appleton Sturgis, Esq., illustrating the island life of the Pacific and Indian Oceans, surpasses all the combined public collections of this class in the country. This was purchased by the Trustees in the early portion of the year.

These collections, conjointly with the Emmons and Bishop Collections, form the most complete, attractive and instructive assemblage of ethnological material in this country.

DEPARTMENT OF ENTOMOLOGY.—The growth of this department is extremely gratifying. Nearly 4000 specimens have been added to the collection, solely through the expeditions made by the Curator; of these about 3000 specimens have been mounted for display.

Efforts are being made, under the auspices of Mr. A. M. Palmer and others of the dramatic profession, and friends of the late Mr. Edwards, to secure the widely-known "Harry Edwards Collection" and library. This collection numbers about 250,000 specimens, and about 40,000 different species, gathered from various parts of the world. Although consisting chiefly of butterflies, moths and beetles, all the orders of insects are represented. On account of the great number of type specimens, this collection is considered by good authorities as one of the best in existence, and is also one of the largest private collections in the world. The library, accompanying this collection, possesses over 500 volumes and about 1200 pamphlets.

A very recent and extremely valuable donation to this department is the collection gathered by James Angus, Esq., of West Farms, this city. This collection consists mostly of butterflies and moths, which are represented by about 1700 different kinds, mostly by large series. It also contains many species of beetles, wasps, grasshoppers, etc. It is estimated to contain 13,000 specimens.

The collection illustrative of insect architecture, and of the destructive effect of gall insects on plants, have been continued; the specimens are mounted in groups on cardboard and attract much interest. They are exhibited in connection with the Forestry Collection in the Wood Hall.

The Jesup Collection of Economic Entomology now numbers fifty-seven groups, with further additions in contemplation. This feature of the collection excites much popular admiration and possesses great educational advantages in a direction not hitherto attempted.

The collection of Mrs. M. S. Elliot, noted in the last report, is partially arranged, nearly all identified and provided with temporary labels.

A portion of the exhibition collection of moths and butterflies will be placed in the desk-cases around the gallery floor of the old building and the new wing.

DEPARTMENT OF TAXIDERMV.—The work in the Department of Taxidermy has been of the usual description throughout the year and has progressed favorably. The most important piece of work, and which required the largest amount of time, was the preparation of the Bison Group. This has been completed and forms a very striking exhibit in the centre of the new Mammal Hall.

In casing the building a case has been provided for a Moose Group, which will be a companion piece to the Bison Group. The specimens for it have nearly all been obtained, but its preparation has been necessarily deferred from lack of time to perform the work. There is much material in hand awaiting preparation for exhibition, including many specimens of special interest and desirable to fill gaps in the collection.

LIBRARY.—The library has been transferred to the top floor, west wing, of the new building ; it occupies an exceptionally advantageous location, being fully lighted on all sides. The book-stack is so compactly arranged that the visitor would scarcely suppose that it contains some 25,000 volumes, with room for as many more.

The room is especially cheerful and attractive to visitors ; and scientists and students are always welcome to use the library for reference and study.

The library embraces the widely-known Brevoort Collection of Works on Fishes, presented by the late Robert L. Stuart ; the Jay Library relating to Conchology, supplemented by the gift of the late Miss Catharine L. Wolfe ; the Elliot Library of Ornithology, purchased for the Museum by Messrs. C. Vanderbilt and Percy R. Pyne, and a collection of voyages and travels donated by the Hon. Hugh J. Jewett.

The library gathered and owned by the late Dr. S. Lowell Elliot, consisting of 9500 volumes and 3500 pamphlets, was donated in March last by his widow, Mrs. M. Schuyler Elliot, as a memorial gift. It contains many rare works relating to the early history of America and other subjects. It is a very valuable acquisition, and the Museum is to be congratulated upon the generosity evinced by Mrs. Elliot in thus supplementing her previous gift to the Entomological Department.

The Museum has also lately received a donation from Alexander I. Cotheal, Esq. This consists of three large microscopes with their accessories, and a cabinet containing 300 slides of mounted objects ready for study. In addition to these, he has given 300 books, some on Botany, and others relating to the construction and use of the microscope.

THE JESUP COLLECTION OF STONES AND MARBLES. — The Jesup Collection of Stones and Marbles of North America has been removed to its permanent location in the halls of the east wing of the new building in cases specially built for its exhibition. This collection is frequently examined with interest by builders and workers in stone and marble.

THE JESUP COLLECTION OF WOODS.—The expedition, undertaken last fall without expense to the Museum, resulted in the acquisition of all the specimens at that time unrepresented in the Forestry Collection. They are now arriving at short intervals, and are being dressed as rapidly as possible. With these now secured the collection is complete, and represents the entire forestry of North America as known to science.

The trip covered the Pacific Coast from Seattle, Washington, to Texas, and from the Coast Islands to points in the mountains of Arizona. Through the generosity of Mr. C. P. Huntington, this collection has been enhanced by the gift of a section of a Redwood Tree eleven feet in diameter, and which is now on exhibition in the Wood Hall. This specimen is the largest attainable consistent with perfect condition.

The Museum is indebted to Mr. A. N. Towne, Acting Vice-President S. P. R. R. Co., Mr. A. D. Moore, of San Francisco, and Mr. H. Clay Needham, of Newhall, Cal., for valuable assistance rendered to our Collector.

BULLETIN.—The publication of the Bulletin, so important to the Museum, has been continued; and the number of institutions with whom we exchange publications has been considerably increased.

Two articles were prepared by Professor R. P. Whitfield, Curator of the Geological Department. Professor J. A. Allen, Curator of the Department of Mammals and Birds, contributed seven papers pertaining to the work of his department; these were supplemented by four by Dr. Edgar A. Mearns, Assistant Surgeon, U. S. A., based on collections presented by him to the Museum, and two others by Mr. Frank M. Chapman, the Assistant Curator. These articles were illustrated by twelve plates and numerous figures in the text.

The number of visitors shows an increase over the preceding year; the day attendance being 246,267 and the evening attendance 38,105, reaching a total of 284,272, exclusive of the number which listened to the lectures delivered to members and their friends.

The growth of the Museum during the last three years is an indication of future progress ; the erection of another addition for exhibition will soon become a necessity, and the provisions for it cannot be postponed.

The public will bear in mind that the functions of a great museum are widely varied ; it owes a duty to the general public which must be educated through the exhibition of the collections in its cases, and through popular lectures on scientific subjects ; and to science by the provision of material for investigation and the publication of the results of original research. The expense of maintenance will, therefore, increase with each year, and additional income must be provided.

It is but just that the city should be asked to appropriate each year a sum sufficient to cover the maintenance ; inasmuch as we have no source of income arising from admission fees. The income derived from the interest on the Endowment Fund is pledged for the purchase of specimens and collections to enrich and enlarge the attractions of the Museum, and the subscriptions from Life and Annual Members should be used for the same purpose.

With the cöoperation of the municipal authorities, a bill has been introduced into the Legislature authorizing the Board of Estimate and Apportionment to grant additional appropriations for the year 1892, and for each successive year. It is hoped that this bill will become a law at an early day.

It should be frankly stated that until the funds of the institution are augmented in some manner, the Trustees will be unable to open the new building ; as to do this will so largely increase the expense of maintenance that it would impose on them a burden which they ought not to be asked to assume.

The work of the Museum is to gather and display material ; encourage individual research and study along special lines ; publish the results of such study ; provide lecture courses ; conduct class work and prosecute field work.

We have not, like many museums, stopped with the first of these duties, but have collected specimens and have encouraged specialists and students to avail themselves of the means we give them for advancing the sciences they are pursuing.

Our field work is bringing in good results ; the importance of the institution is conceded by scientists and the public, and will manifest its value more and more by our working on every line open to it.

I feel that the future of the Museum is full of promise, and I congratulate the Trustees on the results of the earnest efforts they have made to place this institution in the front rank of the scientific museums of the country.

MORRIS K. JESUP,

President.

Dr. THE AMERICAN MUSEUM OF NATURAL HISTORY

Endowment :

	EXPENDITURES.	
To Geological Department		\$166 38
Ethnological "		776 44
Mineralogical "		919 69
Entomological "		160 70
Reptiles and Fishes		235 14
Wolfe Fund--Library		80 02
Bird Groups		171 00
Conchological Department		145 32
Skeleton Department		223 10
Special Account		318 00
Bulletins		1,111 76
Insect Groups		434 79
Library		1,110 13
Mammalogical Department		1,690 16
Ornithological "		3,225 52
Taxidermist "		2 35
Cases Account		4,722 72
Spang Collection (Minerals)		1,000 00
Mammalian Paleontological Department		1,600 59
Appleton Sturgis, Contract		2,255 31
Mammal Groups		718 80
		\$21,067 92

Maintenance :

To Fixtures and Furniture		\$814 80
Repairs		482 77
Expressage		362 96
Interest on "Dr." Balances		241 11
Stationery		296 04
Labels		602 60
Annual Reports		419 92
Coal		3,975 18
Poison		29 07
Printing		366 38
Lecture Department, Salaries		7,238 87
Labor		9,828 73
Supplies		743 09
Salaries		21,320 09
Expense Account		4,102 80
		50,824 41
		\$71,892 33
Balance from 1891 Account		\$6,979 16

Examined { ADRIAN ISELIN, { *Auditing*
and approved, { CHARLES G. LANDON, { *Committee.*

Endowment :

RECEIPTS.

By Balance from December 31, 1890.....	\$1,062 91	
Mineralogical Account.....	11 42	
Interest on Invested Funds.....	16,562 74	
Sale of " Guides ".....	236 10	
Fees from " Collecting Permits ".....	20 00	
Henry F. Osborn.....	540 00	
Appleton Sturgis.....	<u>2,000 00</u>	\$20,433 17

PATRONS' ACCOUNT : Subscription of

Archibald Rogers.....	\$1,000 00	
George C. Cooper.....	1,000 00	
Theodore A. Havemeyer.....	1,000 00	
William C. Whitney.....	<u>1,000 00</u>	4,000 00

FELLOWS' ACCOUNT : Subscription of

Wheaton B. Kunhardt.....		500 00
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LIFE MEMBERS' ACCOUNT : Subscription of

James J. Goodwin.....	\$100 00	
John T. Willets.....	100 00	
Robert R. Willets.....	100 00	
Percival Knauth.....	100 00	
Frederick H. Comstock.....	100 00	
John Greenough.....	100 00	
Edward Uhl.....	100 00	
F. W. Devoe.....	<u>100 00</u>	800 00
		\$25,733 17

Maintenance :

By Dues from Annual Members.....	\$7,530 00	
State Department of Public Instruction.....	6,650 00	
Department of Public Parks.....	25,000 00	39,180 00
		\$64,913 17
Balance brought down to 1892.....		<u>6,979 16</u>
		\$71,892 33

[E. & O. E.] NEW YORK, *January 1, 1892.*

CHARLES LANIER, *Treasurer.*

ENDOWMENT FUND.

The following amounts have been paid into the Endowment Fund of the American Museum of Natural History during 1891:

Estate of HUGH AUCHINCLOSS.....	\$10,223 56
Estate of Mrs. MARY ROGERS.....	1,000 00

FORM OF BEQUEST.

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

.....

.....

LIST OF ACCESSIONS, 1891.

DONATIONS.

LIBRARY.

Through the late Miss CATHARINE LORILLARD WOLFE.

- Pactel, Fr. *Catalog der Conchylien-Sammlung.* 3 vols. 1888-90.
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Index.
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- PROF. J. A. ALLEN, New York City.
American Field. 11 vols.

- JAMES TERRY (the author), New York City.
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 Catalogue Historique et descriptif du Musée de Dijon. 1869.
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 Hand Book of the City of Montreal. 1882.
 Mineral Resources of British Columbia. 1889.
 265 Odd numbers of Journals, Transactions, etc.
 34 Odd volumes of Journals, Transactions, etc.
 63 Miscellaneous Pamphlets.
 29 Geological and Palæontological Pamphlets.
 Annual Reports of the U. S. Geological Survey. 2 vols.
- MRS. M. SCHUYLER ELLIOT (Elliot Memorial Gift).
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 Illustrations of North American Entomology. Orthoptera. By
 Townend Glover.
 Manuscript Notes from my Journal or Entomological Index. By
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 Histoire Naturelle des Colibris.—Lesson.
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 7 Etchings.
 2 Manuscript reports on the naming of the Se. E. Peak, of ill Imilliaia.
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 Hayes.—Birds. 1771.
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Descriptions of the Preparatory Stages of *Smerinthus Ecæcatus*.
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21 Photographs of Fossils, etc.
4 Pamphlets.
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Annual Report. 1891.
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Veterinary Specifics. 1891.
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- ST. GALLISCHEN NATURWISSENSCHAFTLICHE GESELLSCHAFT,
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- SOCIÉTÉ VAUDOISE DES SCIENCES NATURALLE, Lausanne,
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- THE NORWEGIAN NORTH ATLANTIC EXPEDITION, 1876-1878,
XX. Zoölogy Pycnogonidea-Sars.
- SOCIÉTÉ D'AGRICULTURE D'ALGER, Algiers, Africa.
Bulletin. 33 Anne. No. 102. 1890.
- KONGELIGE DANSKE VIDENSKABERNES SELSKAB, Copenhagen,
Denmark.
Oversigt. 1890, 2, 3; 1891, 1.
- NATURFORSCHENDE GESELLSCHAFT, Basel, Swizerland.
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- KONGLIGA SVENSKA VETENSKAPS AKADEMIEN, Stockholm,
Sweden.
Ofversigt. Arg. XLVII, 9, 10; XLVIII, 1-7. 1890-91.
- LUND UNIVERSITETS, Sweden.
Ars-Skrift. Tome XXVI. 1889-90.
- ENTOMOLOGISKA FÖRENINGEN, Stockholm, Sweden.
Tidskrift. Arg. X, 5; XI, 1-4. 1890.

GEOLOGICAL DEPARTMENT.

- GEO. CRAWFORD, Brooklyn, N. Y.
Head of Narwhal (*Monodon*), dredged at Charleston, S. C. Extinct
species from the Tertiary.
- WM. DUTCHER, New York City.
A fossil Crab (the living species *Callinectes hastatus*, Fab.), found in a
clay concretion in the Hudson River Tunnel, 3100 feet from the
New Jersey extremity.
- J. A. GRENZIG, JR., Brooklyn, N. Y.
One specimen of *Zaphrentis gigantea* (fossil coral) from Onondaga
County, N. Y.
- GEO. F. KUNZ, Hoboken, N. J.
Cretaceous fossils from New Jersey, comprising a specimen of *Nautilus*
Dekayi, figured in the New Jersey Palæontology; two blocks of
Polorthus, three Gryphæas, some echinoid spines and *Nodosaria*?
- MRS. J. TERRY, New Haven, Conn.
Five specimens of *Maclura magna*, a fossil univalve shell from the
Chazy Limestone at Basin Harbor, Vt., Lake Champlain.
- G. SZLUJKA, Drifton, Pa.
Four specimens of Coal Plants from a seam at Drifton, Pa.
Specimens of Anthracite Coal, showing cone in cone structure, from
Drifton, Pa.
Six cores of borings by diamond drill in Coal Rock at Drifton, Pa.
- JACOB VON DE LOO, Albany, N. Y.
Several specimens of Chazy Limestone fossils from near Keeseville,
N. Y.
- W. WALLACE, New York City.
One large slab of Oriskany Sandstone from Cobleskill, N. Y.
- J. WILCOX, Media, Pa.
Specimens of Miocene fossils, from Duplin Co., N. C. Nineteen
specimens representing nine species.

MINERALOGICAL DEPARTMENT.

- DR. FRANK ABBOTT, New York City.
Two handsome specimens of crystallized salt (Halite), from Salt Lake, Utah.
- MAURICE BARNETT, New York City.
Two attractive specimens of associated Galenite and Calcite, from St. Joseph's Lead Co.; mines of Bonne Terre, Missouri.
- C. WILLIAM BEEBE, Gouverneur, N. Y.
One specimen of Mountain Leather, enclosing nodules of Rensselaërite, one specimen of Rensselaërite; both from Gouverneur, N. Y. Also sample of pulverized Rensselaërite used in the manufacture of writing paper.
- CAPT. BERRY, through PROF. J. DOUGLAS.
One specimen of Cuprite from the Dominion Copper Co.'s Mine, Globe, Arizona.
- H. LANGDON BUTLER, New York City.
One specimen of Dumortierite, from Manhattan Island.
- J. A. GRENZIG, JR., Brooklyn, L. I.
One specimen of Fluorite, Weardale, England.
- W. R. McCLURE, New York City.
One specimen of Sphalerite with Galenite, from Carthage, Jasper Co., Mo.
- WM. NIVEN, New York City.
One specimen of pink Garnet, from Mexico.
- E. E. OLCOTT, New York City.
A number of Amethystine Crystals, from Pennsylvania.
- REV. R. B. POST.
Specimen of Pele's Hair (Amphibole), from Kilauea, Island of Hawaii, Sandwich Islands.
- SANDERSON SMITH, New York City.
One specimen of Pyrargyrite, from Ruby Hill, Nevada.
- CHAS. H. SNOW, Silver City, New Mexico.
One specimen of Copper (Pseudomorph after Azurite), from Grant Co., New Mexico.
Specimens of native Copper, Garnet, Calamine, Sphalerite and Turquoise, from Grant Co., New Mexico.
- GILMAN S. STANTON, New York City.
Specimen of crystallized Quartz in cavities, from Paterson, N. J.
Two specimens of Datolite, from Paterson, N. J.
One specimen of Delessite (?), from Somerville, Mass.
- J. TERRY, New Haven, Conn.
A large specimen of Silver Ore, from San Bernardino Co., Providence Mountains, Cal.
- W. THEISS, Baltimore, Md.
Specimens of Serpentine and Picrolite, from Maryland.
- S. L. WILSON, New Milford, Conn.
One Beryl of large size, enclosed in quartz with Feldspar.
Two Garnets, large and fine in color, from granite vein six miles north of New Milford, Litchfield Co., Conn.

INVERTEBRATE ZOOLOGY.

SANDERSON SMITH, Staten Island.

Four specimens of Sponges, from the West Coast of Central America.

U. S. NATIONAL MUSEUM, Washington, D. C.

Specimens of Crinoides, obtained in deep-sea dredgings near Cuba, W. I., including examples of *Pentacrinus decorus* Wy. Thom., *P. Müller*i Oersted, *Rhizocrinus Rawsoni* Portales and *Antedon dentatum* Verrill.

DEPARTMENT OF MAMMALS.

FRANK B. ARMSTRONG, Brownsville, Texas.

15 small Mammals, from Texas.

H. P. ATTWATER, Rockport, Texas.

2 specimens, from San Antonio, Texas.

P. T. BARNUM and J. A. BAILEY, Bridgeport, Conn.

1 Red Deer, 1 Sea Lion, 1 Harbor Seal.

Miss NELLIE BLY, New York City.

2 Monkeys.

FRANK M. CHAPMAN, New York City.

5 specimens, from Florida.

DEPARTMENT OF PUBLIC PARKS, New York City, through Dr. W. A. Conklin, Superintendent.

22 Monkeys; 1 Lemur; 1 Tiger; 1 Leopard; 1 Jaguar; 2 Ocelots; 2 Gray Foxes; 1 Red Fox; 1 Mink; 1 Mongoose; 1 Malayan Bear; 2 Sun Bears; 3 Black Bears; 4 Raccoons; 3 Sea Lions; 1 American Bison; 1 Zebu; 1 Aoudad; 3 Deer; 1 Llama; 1 Woodchuck; 1 Spotted Cavy; 3 Guinea Pigs; 1 Phalanger; 3 Kangaroos; 1 Opossum. Total, 63 specimens, received in the flesh.

GEORGE K. CHERRIE, San José, Costa Rica.

32 specimens, from Costa Rica.

S. D. DILL, New York City.

2 young Ferrets.

D. G. ELLIOT, New York City.

20 Fox Squirrels, from various localities.

T. MANUEL ESPIN, New York City.

1 Bat, from Cuba.

L. S. FOSTER, New York City.

9 small Mammals, from Greene Co., N. Y.

MORRIS M. GREEN, Syracuse, N. Y.

25 small Mammals, from Western New York.

G. S. HUNTINGTON, M.D., College of Physicians and Surgeons, New York City.

2 Monkeys; 1 Civet Cat; 1 Hutia.

C. B. ISHAM, New York City.

1 Mole.

D. P. INGRAHAM, Elmira, N. Y.

2 specimens of *Capromys ingrahami*, from Bahama Islands.

- M. D. JACOBS, New York City.
1 Red Bat.
- HENRY KAYSER, New York City.
1 Bat.
- LEVERETT M. LOOMIS, Chester, S. C.
4 Squirrels.
- EDGAR A. MEARNS, M.D., U. S. A., Fort Snelling, Minn.
1 Moose; 1 Moose head; 1 Deer head, and 32 small Mammals, mostly from Minnesota.
- LOUIS ZEREGA MEARNS, Fort Snelling, Minn.
1 White-footed Mouse.
- MUSEO NACIONAL DE COSTA RICA, San José, C. R.
20 specimens, from Costa Rica.
- JENNESS RICHARDSON, New York City.
1 European Hare.
- JOHN ROWLEY, JR., Hastings-on-Hudson, N. Y.
1 Gray Fox; 3 Raccoons; 3 Shrews; 2 Squirrels; 12 White-footed Mice; 5 Muskrats.
- MRS. M. SHAW, New York City.
1 Diana Monkey.
- GEORGE B. SENNETT, Erie, Pa.
125 specimens, chiefly from Minnesota, Pennsylvania, Texas and Mexico.
- WILLIAM WALLACE, New York City.
1 Raccoon.
- HENRY L. WARD, Rochester, N. Y.
1 Bat, from Mexico.

DEPARTMENT OF BIRDS.

- H. P. ATTWATER, Rockport, Texas.
3 specimens, San Antonio, Texas.
- C. CARRINGTON BACON, Bell, Ky.
2 specimens, from Kentucky.
- PETER TOWNSEND BARLOW, New York City.
223 South American birds, chiefly Hummingbirds.
- L. BELDING, Gridley, Cal.
8 specimens, from California.
- DR. ST. FELIX COLARDEN, Guadaloupe, W. I.
37 specimens, from Guadaloupe Island, W. I.
- W. W. COLE, New York City.
2 tails of Lyre Birds.
- DEPARTMENT OF PUBLIC PARKS, New York City, through Dr. W. A. Conklin, Superintendent.
7 Parrots; 1 Barn Owl; 1 Screech Owl; 1 Turkey Vulture; 1 Pea Fowl; 2 Pheasants; 1 Egret; 1 Brant; 1 Goose; 1 Black Swan; 1 White Pelican; 1 Gull. Total, 19 specimens.
- ROGER A. DERBY, New York City.
1 Vireo's nest.
- W. F. DUNNING, New York City.
1 mounted Peacock.

- HARRY FLOYD, New York City.
3 specimens, from Long Island and New Jersey.
- JULIUS GOTTSCHALK, Brooklyn, N. Y.
1 King Penguin.
- W. W. GRANGER, New York City.
1 Pigeon.
- C. B. ISHAM, New York City.
1 Pine Warbler.
- HOWARD K. JAMES, Rockville, Conn.
60 specimens, chiefly from Connecticut.
- GEORGE N. LAWRENCE, New York City.
Type of *Chatura dominicana colaradeni*.
- R. H. LAWRENCE, Olympia, Wash.
15 specimens, from Washington.
- LEVERETT M. LOOMIS, Chester, S. C.
200 specimens, from South Carolina.
- GEORGE R. MCKENZIE, New York City.
1 egg of Golden Eagle.
- C. OERTEL, New York City.
1 mounted Wood Ibis.
- E. E. OLCOTT, New York City.
1 Motmot; 1 Hummingbird; 2 Cocks of the Rock.
- AUSTIN F. PARK, Troy, N. Y.
16 Purple Grackles.
- JOHN PATON, New York City.
1 Paradise Trogon.
- F. T. PEMBER, Granville, N. Y.
5 specimens, from California.
- LUDWIG RIEDERER, New York City.
9 eggs of Lapwing.
- C. B. RIKER, Orange, N. J.
3 specimens, from the West Indies.
- JOHN ROWLEY, JR., Hastings, N. Y.
10 specimens, from Hastings, N. Y.
- W. E. D. SCOTT, New York City.
2 mounted Wild Turkeys, from Florida; 5 eggs of the Screech Owl.
- I. B. SNIFFEN, Greenwich, Conn.
1 Screech Owl.
- CAPT. P. M. THORNE, 22d Inft., U. S. A., Fort Keogh, Montana.
27 specimens of *Colaptes*, from Colorado and Montana.
- MISS WISTAR, New York City.
1 egg of Eider Duck; 1 egg European Herring Gull.

DEPARTMENT OF REPTILES AND FISHES.

- WM. L. BAKER, Montauk Point Life Saving Station, N. Y.
1 Trigger Fish, from Long Island.
- FRANK M. CHAPMAN, New York City.
30 specimens, Reptiles, from Englewood, N. J.

- WM. A. CHAPMAN, Hillburn, N. Y.
1 Snake.
- J. J. DETWILLER, New York City.
3 Snakes, from Hudson Co., N. J.
- J. H. HARRIS, New York City.
1 Land Tortoise.
- DEPARTMENT OF PUBLIC PARKS, New York City, through Dr. W. A. Conklin, Superintendent.
2 Alligators.
- GUSTAVE KOHN, New Orleans, La.
3 Turtles.
- DR. EDGAR A. MEARNES, U. S. A., Fort Snelling, Minn.
1 *Emys meliagrís*, from Minnesota.
- W. NIVEN, New York City.
1 Iguana; 1 *Heloderma horridum*.
- DR. MORTON R. PECK, New York City.
2 specimens of Lizard (*Eumeces fasciatus*), from Fort Lee, N. J.
- FRED. PETER, New York City.
1 Flounder, from Fort Hamilton, N. Y.
- E. W. SMITH, Orange, N. J.
1 Ring-necked Snake, from New Jersey.

DEPARTMENT OF ENTOMOLOGY.

- THROUGH MUSEUM EXPEDITIONS.
About 4500 specimens from New York City and vicinity.
- M. RYBINSKI, New York City.
2 alcoholic specimens of Spiders (*Lycosa singorensis*), from S. Europe.
- CHARLES UPSON CLARK;
About 800 Beetles, from Massachusetts.
- MISS MARY A. LONG, Interlachen, Fla.
6 living larvæ of *Papilio crespontes*.
- MRS. ANNIE TRUMBULL SLOSSON, New York City,
1 larva of *Seiractia Echo*, from Florida.
2 larvæ of *Hypercheria lilith*, from Florida.
2 specimens of *Lagoa pyxidifera*, from Florida.
1 specimen of *Melipotis* sp., from Florida.
3 specimens of *Seiractia Echo*, from Florida.
1 specimen of *Ilypax aurostriata*, from Florida.
1 specimen of *Varina ornata*, from Florida.
- MRS. ETTA B. HERRING, Plainfield, N. J.
2 specimens of *Callidryas cubule*, from Florida.
3 specimens of *Agraulis vanilla*, “
1 specimen of *Eudamus proteus*, “
1 specimen of *Danais berenice*, “
2 specimens of *Terias nicippi*, “
1 specimen of *Papilio ajax*, “
1 specimen of *Papilio crespontes*, “
- OTTOMAR DIETZ, New York City.
12 specimens of insects, from Florida.
- CHARLES DURY, Cincinnati, Ohio.
50 rare Beetles, from Ohio.

- JOHN H. WINSER, New Jersey.
 1 Spider, from Lake Hopatcong, N. J.
 2 Beetles, from New Jersey.
- RICHARD PEARSALL, Brooklyn, N. Y.
 2 specimens, *Scopelosoma moffatiana*.
- JAMES TERRY, New Haven, Conn.
 1 *Tarantula* nest, from California.
- JAMES H. HOLMES, Caldwell, N. J.
 1 *Elater oculatus*.
 1 *Necrophorus americanus*.
 1 *Cybister fimbriolatus*.
- JOSEPH M. PRAY, New York City.
 1 *Tarantula* nest, from California.
- E. C. FRANK, Wilkesbarre, Pa.
 6 specimens of *Amphibolips spongifica*.
- WM. BEUTENMÜLLER, New York City.
 Specimens of South American Ant.
- J. M. ESPIN, Hayti, W. I.
 A few Butterflies and Beetles, from Hayti.
- L. S. FOSTER, New York City.
 Larva of a Dipterous parasite, found under the skin of a Chipmunk.
- MRS. M. SCHUYLER ELLIOT.
 10 Moths, from West Woodstock, Conn.
- A. L. CARROLL, New York City.
 1 pupa of *Eristalis*.
- MRS. N. L. BRITTON, New York City.
 Eggs of Gypsy Moth, from Spain.
- F. B. SIMPSON, New York City.
 3 specimens of *Morpho cytheris*, from Brazil.
 “ “ *Curculio regalis*, “
 10 “ “ *Hoplia philanthus*, from Europe.
- G. D. BRADFORD, New York City.
 30 Beetles, from Massachusetts.
- CARL LUMHOLTZ.
 120 Beetles, from Sonora, Mexico.
- WM. T. DAVIS, Tomkinsville, S. I.
 2 *Pamphila massasoit*.
- EBEN E. OLCOTT, New York City.
 50 Butterflies, from Peru.

DEPARTMENT OF ARCHÆOLOGY AND ETHNOLOGY.

- CHARLES H. BARRETT.
 A Bone Implement, dug from the mud in the harbor of Glen Cove, L. I.
- JOSEPH WILCOX, of Wagner Institute, Philadelphia, Pa.
 3 Chipped Stone Implements, from the mouth of the Cheeshowiska River, Florida.
- EDWARD E. POOR, Hackensack, N. J.
 A Feather Necklace, made from the feathers in the yellow tufted Bee-eater (*Acrulocereus Nobilis*) of the Sandwich Islands.

- MRS. J. CROSBY BROWN, New York City.
A Siamese Knife.
- AUGUSTUS LIPPITT, Brooklyn, N. Y.
One Large Wooden Bowl, made by the Indians at Chatham, Columbia,
N. Y., upwards of 125 years ago.
- E. TAPPAN ADNEY, New York City.
Model of Toboggan, used by a Malicete Indian, Woodstock, N. B.
I Pair Moccasins, ornamented with porcupine quills.
" " " " beads.
" " " " " (child's).
" " " " grass.
" " " " beads.
" " (papoose).
" " with heel appendage.
I Birch Bark Washbowl.
Model Melicete Canoe.
Model of Batteau.
I Pair "Pacs" (shoes), used by lumbermen in New Brunswick.
- JOHN CLARKE, Flushing, Long Island.
Copper Pipe, found at Black Horse, Maryland.
- DR. J. L. WORTMAN, of the Museum.
I Yellow Jasper Chipped Knife, found in the Big Horn Basin,
Wyoming.
- EBEN E. OLCOTT, New York City.
I Jar of Incense Gum, from Sandia, Peru.
I Indian Stone Axe, from Mexico.
" " " " Dutch Guiana.
- DR. EDGAR A. MEARNS, U. S. Army.
"Bell Latch" of a Moose.

EXCHANGES.

LIBRARY.

- H. H. & C. S. BRIMLEY, Raleigh, N. C.
Journals. 61 odd numbers.
- G. E. STECHERT, New York City.
Meyer & Wolf. Taschenbuch der deutschen Vögelkunde. 3 vols.
1810-23.
Jerdon, T. C. The Mammals of India. 1874.
Yarrell.—British Birds. 4 vols. 1871-85.
De Selys-Longchamps. Etudes Micromammalogie. 1839.
Lesson, R. P. Nouveau Tableau du Regne Animal. Manmifères.
1842.
Finsch, O. & Hartlaub, G. Beitrag zur Fauna Central-Polynesiens.
1867.
Du Chaillu, P. My Apingi Kingdom.
" The Country of the Dwarfs.
" Equatorial Africa and Country of Dwarfs.
" A Journey to Ashango-Land. 1874.
Martin, L. The Natural History of Man and Monkeys. 1841.

- St. Pierre.—Studies of Nature. 3 vols. 1808.
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 Smiles, S. Life of a Scotch Naturalist. Thos. Edward.
 Kingsley, K. S. The Naturalist's Assistant. 1882.
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 Damon, W. E. Ocean Wonders: a companion for the seaside. 1888.
 Taylor, J. E. Natural History Rambles Underground. 1879.
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 Roberts, M. The Seaside Companion. 1835.
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 Rambles Among the Channel Islands by a Naturalist.
 The Journal of a Naturalist. 1850.
 Cooper, M. Journal of an Naturalist in the United States. 1855.
 Gray, J. E. Catalogue Seals and Whales in British Museum. 2d
 edition. 1866.
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 Kingdom. 1861.
 Haeckel, E. The Evolution of Man. 1887.
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 Gosse, P. H. The Canadian Naturalist. 1840.
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 Animals. 1879.
 Barton, B. S. Fragments of Natural History of Penn. 1799.
 Chnu, D'Histoire Naturelle Quadrumanes.
 Jaubert, J. B. Richesses Ornithologiques du Midi de la France. 1859.
 Mivart, St. Geo. Contemporary Evolution. 1876.

GEOLOGICAL DEPARTMENT.

With the Wagner Free Institute of Science, Philadelphia, Pa., through Joseph Wilcox; thirty-eight specimens of Pliocene fossils from Florida, embracing eleven species.

DEPARTMENT OF MAMMALS.

- CLARENCE A. SMITH, New York City.
 24 small Mammals, from Colorado.
 W. C. SOUTHWICK, Raritan, N. J.
 3 Weasels.

DEPARTMENT OF BIRDS.

- H. P. ATTWATER, Rockport, Texas.
 15 specimens, from Texas.
 DR. W. C. AVERY, Greensboro, Ala.
 12 specimens, from Alabama.
 W. C. SOUTHWICK, Raritan, N. J.
 13 specimens, chiefly from New Jersey.
 DR. B. H. WARREN, Chester, Pa.
 5 specimens, from Pennsylvania.

PURCHASES

LIBRARY.

- Catalogue of the Birds in the British Museum. Vol. XIX. 1891.
 Edward's Butterflies of North America. No. II. 1891.
 Trow's New York City Directory. 1891.
 Biologia Centrali Americana. Nos. 90-97.
 American Journal of Science and Arts. 1891.
 American Geologist. 1891.
 American Naturalist. 1891.
 Forest and Stream. 1891.
 Garden and Forest. 1891.
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 Publisher's Weekly. 1891.
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 Kentucky Fossil Coral—Silurian and Devonian. Part II. 1888.
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 Head, F. B. Rough Notes taken during some Rapid Journeys Across the
 Pampas and Andies. 1827. (Ives Sale.)
 Swan, J. G. Northwest Coast. 1857. (Ives Sale.)
 Nicholson, J. B. A Manual of the Art of Bookbinding. 1856. (Ives Sale.)
 Von Tempsky.—Mitla Travels in Mexico and Guatemala. 1858. (Ives Sale.)
 Bell, W. A. New Tracks in North America. 2 vols. 1869. (Ives Sale.)
 Heap, G. H. Central Route to the Pacific. 1854. (Ives Sale.)
 Greene, T. J. Journal of the Texian Expedition against Mier. 1845. (Ives
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 Naturforschenden Gesellschaft Mittheilungen. Nos. 1-905. 1843-1876.
 Naturwissenschaftlichen Vereines zur Bremen Jahresbericht. 1866-70. Abhandlungen. 1868-87.

MINERALOGICAL DEPARTMENT.

- GEO. L. ENGLISH & CO., New York City.
 The Spang Collection of Minerals.
 Stalactites, from Bisbee, Arizona.
 Azurite, from Clifton, Arizona.
 Topaz group, from Siberia.
 Twin Calcites, from Egremont and Cumberland, England.
 G. O. SIMMONS, New York City.
 Doubly terminated, duplicate and cruciform Crystal of Quartz, Paxinas, Northumberland Co., Pa.

DEPARTMENT OF MAMMALS.

THROUGH MUSEUM EXPEDITIONS.

77 specimens, from Texas, collected by Frank M. Chapman.

LUMHOLTZ EXPEDITION TO MEXICO.

30 specimens, chiefly from Sonora.

BY DIRECT PURCHASE.

137 specimens from California; 12 specimens from Colorado; 15 specimens from Idaho; 17 specimens from Illinois; 10 specimens from Minnesota; 28 specimens from North Carolina; 94 specimens from Texas, and 35 specimens from other localities.

DEPARTMENT OF BIRDS.

THROUGH MUSEUM EXPEDITIONS.

124 specimens from the vicinity of Corpus Christi, Texas, collected by Frank M. Chapman.

LUMHOLTZ EXPEDITION TO MEXICO.

408 specimens, from Sonora and Chihuahua.

BY DIRECT PURCHASE.

1 Heath Hen (*Tympanuchus cupido*), Martha's Vineyard, Mass.; 61 specimens, from Louisiana.

DEPARTMENT OF ARCHÆOLOGY AND ETHNOLOGY.

1 Sculptured Image, from Mexico.

Appleton Sturgis Collection of Pacific Island Life, 2200 specimens.

James Terry Collection American Archæology, 26,000 specimens.

INCORPORATION.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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

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

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

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

SEC. 3. Said Corporation may purchase and hold, or lease any real and personal estate necessary and proper for the purposes of its incorporation, provided they shall not hold real estate which shall exceed one hundred thousand dollars in value.

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.*

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

ARTICLE III.

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

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

ARTICLE IV.

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

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

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

ARTICLE V.

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

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

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

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

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

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

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

ARTICLE VI.

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

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

ARTICLE VII.

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

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

ARTICLE VIII.

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

ARTICLE IX.

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

ARTICLE X.

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

ARTICLE XI.

A majority of the Trustees for the time being 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 one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

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

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

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

[NOTE.—A Subscriber's Ticket admits two persons to the Museum every day except Sunday, 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 gentlemen 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.

PATRONS.

By the Payment of One Thousand Dollars.

MORRIS K. JESUP.	PETER COOPER.*
ROBERT L. STUART.*	WILLIAM H. ASPINWALL.*
MISS C. L. WOLFE.*	B. H. HUTTON.*
ROBERT COLGATE.*	J. TAYLOR JOHNSTON.
FREDERIC W. STEVENS.	D. N. BARNEY.*
PERCY R. PYNE.	I. N. PHELPS.*
JAMES M. CONSTABLE.	JAMES STOKES.*
JOHN B. TREVOR.*	D. WILLIS JAMES.
ADRIAN ISELIN.	EDWARD MATTHEWS.
HUGH AUCHINCLOSS.*	WILLIAM T. GARNER.*
JOSEPH W. DREXEL.*	JAMES LENOX.*
WILLIAM E. DODGE, JR.	A. H. BARNEY.*
JOHN D. WOLFE.*	COLEMAN T. ROBINSON.*
ABRAM S. HEWITT.	BENJAMIN B. SHERMAN.*
C. VANDERBILT.	JAMES R. ELY.
J. PIERPONT MORGAN.	JONAS G. CLARK.
CHARLES LANIER.	JOHN ANDERSON.*
D. JACKSON STEWARD.	JOHN JACOB ASTOR.*
EDWARD CLARK.*	WILLIAM WALDORF ASTOR
A. G. PHELPS DODGE.	CATHERINE L. SPENCER.*
JAMES BROWN.*	JAS. GORDON BENNETT.
A. T. STEWART.*	CYRUS W. FIELD.
S. WHITNEY PHOENIX.*	ALEX. H. BROWN, M.P.
BENJAMIN H. FIELD.	J. A. BOSTWICK.
WILLIAM T. BLODGETT.*	FREDERICK BILLINGS.*
OLIVER HARRIMAN.	MRS. ROBERT L. STUART.*
ROBERT BONNER.	JESSE SELIGMAN.
JAMES B. COLGATE.	THEO. ROOSEVELT.
ALEXANDER STUART.*	OSWALD OTTENDORFER.
WILLIAM A. HAINES.*	J. HAMPDEN ROBB.
BENJAMIN AYMAR.*	J. F. LAUBAT.
RICHARD ARNOLD.*	H. J. JEWETT.
JOSEPH H. CHOATE.	WM. D. SLOANE.
JONATHAN THORNE.*	D. G. ELLIOT.
PHEBE ANNA THORNE.	LIEUT. G. T. EMMONS.
D. O. MILLS.	C. P. HUNTINGTON.
JOHN A. C. GRAY.	GEO. W. VANDERBILT.
HEBER R. BISHOP.	EDWARD D. ADAMS.
CHAS. G. LANDON.	WILLIAM. C. SCHERMERHORN.
WILLIAM E. DODGE.*	JOHN J. CROOKE.

* Deceased.

HENRY SELIGMAN.
 RICHARD T. WILSON.
 JOHN E. PARSONS.
 FRANCIS O. MATTHIESSEN.
 A. J. FORBES-LEITH.
 GEORGE BLISS.
 M. C. D. BORDEN.
 ARCHIBALD ROGERS.

GEORGE C. COOPER.
 MRS. M. SCHUYLER ELLIOT.
 APPLETON STURGIS.
 THEODORE A. HAVEMEYER.
 WILLIAM C. WHITNEY.
 GEORGE G. HAVEN.
 JAMES BAKER SMITH.

Honorary Patrons,

DR. EDGAR A. MEARNS, U. S. A.

FELLOWS.

By the Payment of Five Hundred Dollars.

SAMUEL WILLETS.*	GEORGE BLISS.
ROBERT GORDON.	R. A. WITTHAUS, M.D.
HOWARD POTTER.	THOMAS BARRON.*
C. V. S. ROOSEVELT.*	GEORGE W. CASS.
CHARLES W. GRISWOLD.*	H. M. SCHIEFFELIN.*
SAMUEL F. B. MORSE.*	PROF. WM. LIBBEY, JR.
RUTHERFORD STUYVESANT.	ROBERT LENOX KENNEDY.*
MEREDITH HOWLAND.*	F. R. HALSEY.
MARSHALL O. ROBERTS.*	CYRUS W. FIELD, JR.
JOHN ALSTYNE.*	H. M. FLAGLER.
O. B. POTTER.	D. B. IVISON.
HON. LEVI P. MORTON.	H. McK. TWOMBLY.
HANSON K. CORNING.*	HENRY G. MARQUAND.
STEWART BROWN.*	JOHN T. TERRY
ABRAM DUBOIS.*	JOSIAH M. FISKE.
TIFFANY CO.	ELLIOTT F. SHEPARD.
LUCIUS TUCKERMAN.	JOHN SLOANE.*
ALFRED B. DARLING.	JOHN D. ROCKEFELLER.
A. A. LOW.	PHILLIPS PHENIX.
RICHARD MORTIMER, JR.	LLOYD PHENIX.
THOS. A. VYSE, JR.	WM. H. HARBECK.
GEORGE G. GRAY.*	DAVID WOLFE BISHOP, JR.
GOUVERNEUR KEMBLE.*	CORTLANDT FIELD BISHOP.
SAMUEL HAWK.*	WHEATON B. KUNHARDT.
JOHN SNEDEN.*	

Honorary Fellow,

JAMES THOMSON.

* Deceased.

LIFE MEMBERS.

By the Payment of One Hundred Dollars.

JOHN E. ALEXANDRE.
 CONSTANT A. ANDREWS.
 Mrs. B. L. ANDREWS.
 B. G. ARNOLD.
 SAMUEL P. AVERY.
 Mrs. JAMES C. AYER.
 Miss E. AYMAR.
 JAS. MUHLENBERG BAILEY.
 DAVID BANKS.
 HENRY I. BARBEY.
 FORDYCE BARKER, M.D.*
 W. H. BEADLESTON.
 GEORGE E. BELCHER, M.D.
 C. M. BELL, M.D.
 CORNELIUS N. BLISS.
 A. K. BOLAN.
 HENRI M. BRAEM.
 BENJAMIN BREWSTER.
 CHAS. P. BRITTON.
 ADDISON BROWN.
 FRANK G. BROWN.
 JAMES M. BROWN.
 JOHN L. CADWALADER.
 Mrs. ALEX. CAMERON.
 CHAS. M. CAULDWELL, M.D.
 ISAAC P. CHAMBERS.*
 C. W. CHAPIN, JR.
 HENRY CHAUNCEY.
 HENRY CLEWS.
 CHARLES L. COLBY.
 EDWARD COLGATE.
 WILLIAM COLGATE.
 Miss ELLEN COLLINS.
 FRED. H. COMSTOCK.
 WASHINGTON E. CONNOR.
 EDWARD COOPER.
 S. D. COYKENDALL.
 JAMES CRUIKSHANK.
 A. DALRYMPLE.*
 CHAS. M. DaCOSTA.*

HENRY J. DAVISON.
 THOMPSON DEAN.
 F. W. DEVOE.
 GEORGE B. DE FOREST.
 S. DEJONGE.
 J. H. DEMOTT.
 NORMAN W. DODGE.
 PETER DONALD.
 E. J. DONNELL.
 ANDREW E. DOUGLASS.
 R. G. DUN.
 WM. BUTLER DUNCAN.
 JAMES H. DUNHAM.
 EDWARD J. FARRELL.
 JOHN FITCH.
 Prof. A. E. FOOTE.
 JAMES FRASER.
 FRANCIS P. FREEMAN.
 SETH BARTON FRENCH.
 GEORGE GARR.
 WILLIAM H. GEBHARD.
 THEODORE K. GIBBS.
 PARKE GODWIN.
 JAMES J. GOODWIN.
 STEPHEN T. GORDON.*
 ANDREW H. GREEN.
 JOHN GREENOUGH.
 JOHN N. A. GRISWOLD.
 FRANKLIN L. GUNTHER.
 ALEX. HADDEN, M.D.
 JOHN A. HADDEN.
 JOHN P. HAINES.
 RICHARD T. HAINES.
 W. A. HAINES, JR.
 Miss E. S. HAINES.
 Mrs. W. A. HAINES.
 WILLIAM M. HALSTED.
 WILLIAM GASTON HAMILTON.
 BENJAMIN HART.
 FREDERICK C. HAVEMEYER.

* Deceased.

JACOB HAYS.
 MRS. H. HERRMAN.
 ALFRED M. HOYT.
 THEO. D. HOWELL.
 WILSON G. HUNT.
 C. P. HUNTINGTON.
 D. B. IVISON.
 A. JACOBI, M.D.
 MISS C. O. JONES.
 CHAS. H. KALBFLEISCH.*
 GEORGE KEMP.
 RUDOLPH KEPPLER.
 WM. M. KINGSLAND.
 A. C. KINGSLAND.
 PERCIVAL KNAUTH.
 GEORGE T. KNIGHT.
 JAMES KNIGHT, M.D.
 GEO. F. KUNZ.
 JOSEPH LAROCQUE.
 JAMES M. LAWTON.
 STEPHEN R. LESHER.
 JAMES LOW.
 EDWARD LUCKEMEYER.
 E. H. R. LYMAN.
 ALEXANDER MAITLAND.
 GODFREY MANNHEIMER.
 H. G. MARQUAND.
 PETER MARIE.
 WILLIAM C. MARTIN.*
 ALBERT MATHEWS.
 JOHN J. MCCOOK.
 JOHN T. METCALFE, M.D.
 CHARLES ADDISON MILLER.
 ROBERT B. MINTURN.
 ROWLAND G. MITCHELL, JR.
 E. A. MOEN.
 E. C. MOORE.
 CHARLES MORAN.
 MANDEVILLE MOWER.
 PERCY MUSGRAVE.
 THOMAS B. MUSGRAVE.
 W. B. NEPTEL, M.D.
 H. VICTOR NEWCOMB.
 W. D. NICHOLS.
 THOMAS H. O'CONNOR.
 C. H. ODELL.

E. OELBERMANN.
 H. O'NEILL.
 A. O. OSBORN.
 MRS. A. O. OSBORN.
 JOHN C. OSGOOD.
 HENRY PARISH.
 JOHN E. PARSONS.
 WILLIAM I. PEAKE.
 ALFRED PELL.
 GIFFORD PINCHOT.
 JAMES W. PINCHOT.
 HENRY B. PLANT.
 JOHN PONDIR.
 HENRY A. V. POST.
 A. A. RAVEN.
 ISAAC H. REED.*
 ROBERT G. REMSEN.
 AUGUSTE RICHARD.
 GEORGE RICHARDS.
 CHANDLER ROBBINS.
 ARCHIBALD ROGERS.
 SAMUEL B. SCHIEFFELIN.
 JACOB H. SCHIFF.
 CHAS. H. SCHULTZ.
 JAS. O. SHELDON.
 ELLIOTT F. SHEPARD.
 JOHN H. SHERWOOD.
 I. H. SHOENBERGER.*
 S. N. SOLOMON.
 HENRY MILFORD SMITH.
 L. DINWIDDIE SMITH.
 HENRY F. SPAULDING.
 LOUIS STERN.
 ALEX. H. STEVENS.
 C. AMORY STEVENS.
 ANSON PHELPS STOKES.
 MISS OLIVIA E. P. STOKES.
 ISIDOR STRAUS.
 THOMAS W. STRONG.
 HENRY M. TABER.
 JAMES TERRY.
 SAMUEL THOMAS.
 FRED. F. THOMPSON.
 SAMUEL THORNE.
 EFFINGHAM TOWNSEND.
 SPENCER TRASK.

* Deceased.

EDWARD TUCK.
 EDWARD UHL.
 H. D. VAN NOSTRAND.
 HERMAN C. VON POST.
 DR. HENRY F. WALKER.
 BENJAMIN WELLES.
 FREDERICK B. WENDT.
 LOOMIS L. WHITE.
 ED. KIRK WILLARD.

S. C. WILLIAMS.*
 JOHN T. WILLETS.
 ROBERT R. WILLETS.
 HON. BENJAMIN A. WILLIS.
 EDWARD WINSLOW.
 JOHN WOLFE.
 HENRY H. WOTHERSPOON.
 JOHN H. WYMAN.
 MRS. JOHN J. WYSONG.

Honorary Life Members,

GEORGE H. BROWN. PROF. JAMES DOUGLAS.
 W. W. COLE. MRS. FLORENCE HOWLAND.
 HOFRATH A. B. MEYER.

* Deceased.

ANNUAL MEMBERS.

By the Payment of Ten Dollars Yearly.

Abbott, Frank, M.D.	Aronson, Rudolph	Beckel, Joseph
Agnew, Hon. John T.	Atterbury, J. T.	Beebe, Chas. E.
Aitken, John W.	Auchincloss, E. S.	Beckman, Gerard
Aldrich, Mrs. H. D.	Auchincloss, Mrs. E.	Beer, Julius
Alexander, Henry M.	Auchmuty, R. T.	Beers, M. H.
Alexander, Jas. W.	Austin, William	Bell, Hon. Isaac
Alexander, John F.	Aufhauser, Samuel	Benedict, James H.
Allen, Calvin H.		Bend, George H.
Allen, Chas. S., M.D.	Babcock, Samuel D.	Benjamin, John
Amend, Bernard G.	Baldwin, C. C.	Bentley, Charles E.
Amsinck, Gustave	Baldwin, Edward	Bentley, Norman S.
Amy, H.	Baldwin, J. G., M.D.	Berdell, Theodore
Anderson, Arthur A.	Baldwin, O. D.	Bernheimer, Adolph
Anderson, E. Ellery	Baldwin, W. D.	Bernheimer, Isaac
Anderson, Henry H.	Baldwin, William	Bernheimer, Simon
Andreini, J. M.	Ballin, Gustav	Berrian, Charles M.
Appleton, Daniel	Bangs, L. Bolton, M.D.	Bianchi, F.
Appleton, W. W.	Banta, C. V.	Bien, Julius
Appleton, Wm. H.	Banyer, Goldsborough	Billings, O. P. C.
Archbold, John D.	Barnard, Horace	Bissinger, Philip
Armour, H. O.	Barnes, E. W.	Blagden, George
Arnold, E. S. F., M.D.	Barnes, John S.	Blakeman, Birdseye
Arnold, John H. V.	Barnes, Theo. M.	Blanchard, G. R.
Arnoux, William H.	Barney, Chas. T.	Bliss, George

- Bliss, George T.
 Bloodgood, John H.
 Blumenthal, Aug.
 Bogert, Albert G.
 Bogert, Henry A.
 Bogert, Stephen G.
 Bond, Frank S.
 Bonn, William B.
 Booss, Frederick
 Borg, Simon
 Boskowitz, I.
 Bowdoin, G. S.
 Bradley, S. R.
 Bradley, William H.
 Breslin, James H.
 Bristol, John I. D.
 Bristow, Hon. B. H.
 Brockway, A. N., M.D.
 Brookfield, Wm.
 Brown, J. Crosby
 Brown, R. C.
 Brown, Vernon H.
 Bruce, Col. S. D.
 Bryce, William
 Buckham, George
 Burden, Henry, 2d
 Burden, James A.
 Burr, Louis H.
 Burrill, John E.
 Butler, Charles
 Butler, Prescott Hall
 Butler, Wm. Allen

 Cahn, Leopold
 Calman, Emil
 Cameron, Edward M.
 Cammann, H. H.
 Campbell, George W.
 Camp, Hugh N.
 Camp, W. A.
 Cannon, H. W.
 Cary, Alanson
 Cassard, William J.
 Cathcart, George R.
 Cauldwell, William A.
 Chamberlain, Mrs. J. F.

 Cheever, John H.
 Chesebrough, Robert A.
 Childs, H. C.
 Chittenden, J.
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THE
AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and 8th Avenue.)

ANNUAL REPORT OF THE PRESIDENT,
ACT OF INCORPORATION,
CONSTITUTION, BY-LAWS AND LIST OF MEMBERS
FOR THE YEAR 1892.



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1893.

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TWENTY-FOURTH ANNUAL REPORT.

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

The progress of the work of the Institution for the year just closed is briefly presented for your consideration.

FINANCES.—The Treasurer's report for the year 1892 shows the receipts to have been as follows:

From the City.....	\$35,413.55
Annual Members' dues.....	6,940.00
Income from Endowment Fund.....	16,790.00
State Department of Public Instruction.....	2,697.00
From the Trustees and other sources.....	20,462.00
Total.....	\$82,302.55
Expenditure for maintenance.....	\$66,339.01
Construction of new cases, repairs, etc.....	12,738.45
Additions to the collections.....	23,552.89
Deficiency at beginning of year.....	6,979.16
Total.....	\$109,609.51
Total Expenditures.....	\$109,609.51
Total Receipts.....	82,302.55
"Dr." balance.....	\$27,306.96

The Department of Public Instruction was carried on by the Trustees at a cost of \$4101.70 in excess of the sum received from the State.

ENDOWMENT FUND.—This fund has been increased since the last report by the gift of \$5,000 by Wm. C. Schermerhorn, Esq., and the bequest of a similar amount from the estate of the late Miss Sarah M. Hitchcock.

During the early part of the year the Legislature passed a measure authorizing the Board of Estimate and Apportionment to grant annually \$50,000 in addition to the \$25,000 then authorized by law. The terms of the bill provided that the Museum should be open free to the public every day in the week except Monday, and including Sunday afternoon.

In conformity with this law, the Park Board was empowered with the consent of the Trustees to modify the contract in regard

to the days of opening ; this has been done and the results are gratifying ; the average attendance on Sunday exceeding six thousand persons. The total number of visitors during the year was 412,558.

Chapter 423 of the Laws of 1892 was approved by the Governor, May 2d. Its terms authorized the Board of Estimate and Apportionment to appropriate four hundred thousand dollars for the erection and equipment of an addition to the Museum, and for other purposes therein specified. In conformity with these provisions the Trustees have selected the architects, and plans have been prepared for the building which is greatly needed.

LECTURES.—By arrangement with Columbia College, lectures have been delivered, in coöperation with the Museum, on Natural History subjects ; the results have been eminently satisfactory and have attracted large audiences. The courses comprised Forestry, Astronomy, Mineralogy and Chemistry.

MEETINGS OF SCIENTIFIC SOCIETIES.—The annual exhibition of the New York Microscopical Society was given at the Museum on April 22d, and was attended by twenty-five hundred people.

The joint meeting of the societies composing the Scientific Alliance was held in the lecture hall, and the regular meetings of the American Ethnological Society of New York, Linnæan Society, Entomological Society of New York, and the Mineralogical Society of this city are held in the reading room of the library.

FORESTRY COLLECTION.—The Jesup Collection of Woods has been enriched by the gift from C. P. Huntington, Esq., of an excellent section of the Redwood, and an equally good example of the Giant Sequoia from California.

GEOLOGICAL DEPARTMENT.—A notable addition to this department was three large blocks of limestone from Beirut, Syria, donated by the Protestant College of that place through the Rev. D. Stuart Dodge. The entire collection of minerals has been transferred to the west wing of the new building. The lately purchased Spang Collection of Minerals has been incorporated

with the former collection and has added largely in numbers and interest to the department. The collection now compares favorably with the most important of its kind in the country.

The collections of gems and gem material presented by J. Pierpont Morgan, Esq., has been arranged and displayed in cases specially constructed for this gift. It presents a most attractive appearance, and a more instructive illustration of the uses of gem stones than any similar collection.

The large mass of copper ore, taken from the Anaconda Copper Mine, Butte, Montana, is displayed in the west wing; its weight is 6041 pounds and it is especially rich in both copper and silver. The Trustees are indebted to Mr. James B. Haggin for this unique and valuable specimen.

Examples of gold and silver ores have been received from Mr. D. O. Mills. Specimens of phosphate rock used for artificial fertilizers were presented by Mr. N. B. Powter, and a collection of Corundum "Emery Ores," and samples of the manufactured articles, by L. Best, Esq., of the Sterling Emery Wheel Co. of this city.

THE CONCHOLOGICAL DEPARTMENT has been increased by material added from the extensive collection donated by John J. Croke, Esq., previously acknowledged. The valuable gift of shells from Mr. D. Jackson Steward was also placed on exhibition. This collection is notable for the extreme beauty and perfection of the specimens, and contains a large number of very rare examples.

DEPARTMENT OF MAMMALS AND BIRDS.—The collections have been increased during the year mainly through donations; 1100 mammals, 400 birds, and 150 reptiles and fishes have been added. The principal gifts have come from Mr. George B. Sennett, Dr. Edgar A. Mearns, U. S. A., and Mr. Leverett M. Loomis, of Chester, S. C. Other important accessions have been received from the late Cyrus W. Field, Mr. C. B. Cory, of Boston, and Mr. Robert H. Lawrence, of Oregon. As usual, many valuable specimens have been received in the flesh from the Central Park Menagerie, through the kindness of the Park Commissioners.

Through the coöperation of the proprietors of the *Illustrated American*, the Museum was enabled to send a collector with their Archæological Expedition to the San Juan region of Colorado, Utah and New Mexico, resulting in the acquisition by the Museum of a large number of mammals and birds. The former proved especially valuable, containing several species new to science.

Early in the year a new "Guide to the Exhibition Collection of Mammals" was published, and the labeling of the collection completed. The entire collection of both birds and mammals is in satisfactory order.

DEPARTMENT OF TAXIDERMY.—The Bison Group, Woodchuck Group and three bird groups have been added during the year. The latter are of a very novel and attractive character.

Fifty mammals and two hundred birds have been prepared and placed on exhibition, the Whale skeleton remounted, and repairs have been made on various other specimens.

BULLETIN.—During the year an entire volume of the Museum Bulletin has been prepared and published, consisting of nearly 400 pages of text, sixteen plates, and over thirty illustrations in the text.

Of the fifteen papers, three, prepared by Professor Henry Fairfield Osborn, Dr. J. L. Wortman, and Mr. Charles Earle, relate to fossil mammals; three, by Professor J. A. Allen, to recent mammals; six, by Professor Allen and Mr. Frank M. Chapman, to birds; and six, by Mr. William Beutenmüller, to insects.

DEPARTMENT OF ENTOMOLOGY.—This department has been greatly enriched and augmented by the acquisition of the well-known collection gathered by the late Henry Edwards, which was partly purchased by the friends of the deceased. Reference was made to this purchase in the report of last year.

The collection consists of about two hundred and fifty thousand specimens of insects from all parts of the globe, and is extremely rich in material from this country.

The Elliot Collection of Butterflies and Moths has been arranged and classified and placed in the cabinets constructed for this purpose. 4000 different specimens of butterflies and moths have been displayed in the desk cases and the gallery floor of the new wing.

There is now on exhibition valuable material from the Drexel, Edwards, Angus, Elliot, Grote and Robinson Collections; and new material will be displayed as soon as the space can be provided. The collections in the department are in frequent use for reference by specialists and students.

DEPARTMENT OF MAMMALIAN PALÆONTOLOGY.—The plan of the department is to form representative series from each of the twelve successive horizons of the West, in order to present a historical development of the evolution of the mammals in North America. Thus far five horizons have been visited: the Laramie, Puerco, Wahsatch, Wind River and White River.

The first expedition went out in 1891 and explored the Wahsatch and Wind River beds. The department sent a second expedition into the Rocky Mountain region in February, 1892, under Dr. J. L. Wortman, assisted by Mr. O. A. Peterson. They first explored the Puerco beds of northwestern New Mexico, and after two months traveled north to Wyoming into the older Laramie beds, and in July they established a camp in South Dakota. The party was seven months in the field, and added altogether over one thousand specimens to the new collection of fossil mammals.

From New Mexico were procured three hundred specimens which represent some of the oldest forms on the Continent. This collection is of special value because these fossils have been represented hitherto only in one other collection. In the Cretaceous four hundred minute teeth were collected with difficulty; these are also very rare.

Of much more recent age are the fossils, which include ancestral forms of Tapirs, Horses, Rhinoceroses, of the Deer, Camels, of the older carnivorous animals such as the Cats, besides representatives of many large extinct families. Several of the larger skeletons are sufficiently well preserved to be mounted upon large panels of plaster resembling the sandstone in which they were found originally; among these are three Rhinoceroses of different types, one of which is as large as the modern Rhinoceros of Sumatra, and is the finest specimen of the kind yet discovered.

All this collection is being worked out of the stone as rapidly as possible, and it is proposed to exhibit it in one end of the new Geological Hall.

We are under obligation to Mr. E. T. Jeffery, President of the Denver and Rio Grande R. R. Co., Marvin Hughitt, Esq., President Chicago and Northwestern Ry. Co., and John King, Esq., President N. Y., L. E. & W. R. R. Co., for courtesies extended to the staff of the department.

DEPARTMENT OF ARCHÆOLOGY AND ETHNOLOGY. — The Terry Collection, containing some 26,000 numbers, has been (with the exception of the material from New York State and Pennsylvania) arranged and placed on permanent exhibition in the new building, occupying cases A B and C and the three desk cases opposite; it also occupies the major portion of case D, and part of E, space being left to interpolate other Museum material. The Sturgis Collection, representing the island life of the Pacific Ocean, has been similarly treated. Lack of space prevents the display of all the material in this collection, and a considerable amount of it is carefully packed and stored, and is waiting the completion of another addition to the Museum.

The important collection of Jadeites, Nephrites and objects of allied material, numbering 494 specimens, gathered by Mr. George F. Kunz, has been purchased by the Trustees. This unique collection will be exhibited early in 1893.

A most important accession to this department and the Museum during the past year is the material obtained by the Henry Villard Expedition to Peru, South America. At present we have received twenty packages containing pottery, textile fabrics, weaving implements, mummies, sculptures and more than three hundred gold, silver and copper ornaments, the result of thorough research and excavation at the ruins of Pachacamac and Surco. Detail plans and colored drawings of these ruins have been made by the explorer. The expedition (supported entirely at the expense of Mr. Villard) has for its object an extended research into the Inca civilization of Peru, and is to cover a period of three years before the completion of the work.

Mr. Ad. F. Bandelier, to whom has been intrusted, by Mr. Villard, this important work, is well known as one of the foremost Archæologists of this country.

LIBRARY.—The growth of the library is of a very gratifying character, the accessions being equal to 2135 volumes. The total number of the latter at the close of the year was in excess of twenty-six thousand. The works on Entomology, composing the library of the late Harry Edwards, were acquired through purchase by the Trustees.

Four hundred volumes have been donated by Alexander I. Cotheal, Esq., and 168 volumes and 369 colored plates of birds, by Mr. Samuel P. Avery. Valuable donations have also been received from the Hon. Levi P. Morton, Hon. Roswell P. Flower, Mr. William E. Dodge, Mr. Morris K. Jesup and Mrs. S. Lawrence. Three large microscopes were presented by Mr. Cotheal.

The Annual Reports and the volume of the Bulletin have been sent to kindred institutions here and abroad.

DEPARTMENT OF PUBLIC INSTRUCTION.—After the close of the Spring Course of Lectures to Teachers (given under the auspices of the State Superintendent of Public Instruction), and the passage by the Legislature of the usual appropriation for continuing this course of instruction, it was a surprise that this item failed to become a law; but believing that upon a fuller knowledge of the public value of this work, the Governor would cordially aid the department to fulfil the terms of the contract with the Museum, the Trustees generously took upon themselves the expense of continuing the work until the next Legislature should convene and make the customary appropriation, and during the last autumn the following course of lectures was delivered to members of the Museum, by Professor A. S. Bickmore, and to which the teachers of New York City were invited:

<i>Oct. 26th</i>	The Atmosphere.
<i>Nov. 2d</i>	Morocco and the Riviera.
“ <i>9th</i>	Mammals of North America.
“ <i>16th</i>	Portugal.
“ <i>23d</i>	Mammals of South America.
“ <i>30th</i>	Central Spain—Madrid.
<i>Dec. 7th</i>	Mammals of Europe and Northern Asia.
“ <i>14th</i>	Southern Spain—The Alhambra.

Lectures were also delivered in the afternoon of Thanksgiving Day, Christmas, New Year's and Washington's Birthday; these latter were free to the public.

MEMBERSHIP.—During the year the following gentlemen have become Patrons: Mr. Henry Villard, Dr. William Pepper and Mr. James Angus.

Mr. Samuel P. Avery, Mr. James H. Jones, James B. Haggin, Esq., and Mrs. Richard P. Dana, have been elected Fellows.

Accessions of life members are Mr. A. N. Towne, Miss Frances Pell, J. W. Reinhart, Esq., Mr. John Alsop King, Mr. William Niven, Mr. William F. Sebert and John King, Esq.

The ceremonies pertaining to the formal transfer of the new building to the Trustees by the Park Commissioners, took place November 2d last, and a detailed statement of the proceedings on that occasion is presented in a later portion of this report.

The important progress of the three preceding years has been repeated during 1892, and unless unforeseen difficulties arise a similar advance may be expected in the future. The Trustees have bestowed their time, attention and money unselfishly in ministering to the best interests of the Institution; they are inspired by an earnest pride in the work of giving to this city and country a Museum filled with the richest treasures from every domain of Natural History; a Museum that shall be the peer in every respect to the most renowned museums of Europe, and that will offer to the masses of the Empire City a home where they may find that recreation, entertainment and education which serves to elevate and ennoble their life and character.

I desire in closing to refer with gratitude to the faithful service rendered during the year by the several curators and others in charge of departments; and by all the officers and employés of the Institution.

MORRIS K. JESUP,

President.

ENDOWMENT FUND.

The following amounts have been paid into the Endowment Fund of the American Museum of Natural History during 1892.

Mr. WILLIAM C. SCHERMERHORN, - - - \$5,000 00
Estate of Miss SARAH M. HITCHCOCK, - - - 5,000 00

FORM OF BEQUEST.

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

4

.....
.....

To Balance January 1st, 1892..... \$6,979 16

Endowment :

EXPENDITURES.

To Geological Department	\$107 90	
Mineralogical "	344 14	
Entomological "	78 20	
Reptiles and Fishes Department.....	50 78	
Wolfe Fund—Library.....	41 55	
Bird Groups.....	78 89	
Conchological Department.....	21 80	
Skeleton "	392 86	
Special Account	500 78	
Guides "	816 08	
Annual Reports.....	52 00	
Bulletins	2,151 47	
Spang Collection (Minerals).....	1,570 98	
Appleton Sturgis Collection.....	4,379 38	
Mammal Groups.....	12 88	
Ethnological Department	67 61	
Library	450 52	
Mammalogical Department.....	995 42	
Edwards Entomological Collection.....	1,803 00	
Terry Collection.....	3,398 62	
Lumholtz Expedition.....	200 00	
Ornithological Department.....	968 60	
Mammalian Palaeontological Department.....	5,069 43	23,552 89

Maintenance :

To Expense Account.....	\$5,687 82	
Labels	1,188 11	
Coal.....	4,259 78	
Annual Reception.....	822 80	
Cases, General.....	4,096 65	
Fixtures and Furniture.....	1,106 97	
Repairs	3,104 51	
Expressage.....	421 38	
Stationery.....	457 01	
Labor	17,978 04	
Desk Cases, Upper Hall.....	2,247 42	
Salaries	25,197 73	
Upright Cases, Upper Hall.....	2,182 90	
Lecture Department.....	6,798 70	
Supplies.....	1,910 03	
Printing.....	753 58	
Interest on "Dr." Balance for 1892.....	864 03	79,077 46
		<u>\$109,609 51</u>

Balance from 1892 account..... \$27,306 96

Examined } ADRIAN ISELIN, } *Auditing*
and approved, } THEODORE A. HAVEMEYER, } *Committee.*

RECEIPTS.

Endowment :

Interest on Invested Funds.....	\$16,790 00	
W. H. Osborn, Subscription.	1,500 00	
Lumholtz Expedition.....	200 00	
Guides Account.....	312 00	\$18,802 00

TRUSTEES' ACCOUNT : Subscriptions.

Abram S. Hewitt.....	\$1,000 00	
Theodore A. Havemeyer.....	1,000 00	
Morris K. Jesup.....	1,000 00	
D. O. Mills.....	1,000 00	
Wm. E. Dodge.....	1,000 00	
J. Pierpont Morgan.....	1,000 00	
Charles Lanier.....	1,000 00	
Archibald Rogers.....	500 00	
D. Willis James.....	1,000 00	
James M. Constable.....	1,000 00	
C. Vanderbilt.....	1,000 00	
Adrian Iselin.....	1,000 00	
Charles G. Landon.....	500 00	
Oliver Harriman.....	500 00	
Oswald Ottendorfer.....	500 00	
Joseph H. Choate.....	1,000 00	
William C. Whitney.....	1,000 00	
Percy R. Pyne.....	1,000 00	16,000 00

PATRONS' ACCOUNT : Subscriptions.

George G. Haven.....	\$1,000 00	
James Baker Smith.....	1,000 00	2,000 00

LIFE MEMBERS' ACCOUNT : Subscriptions.

A. K. Bolan.....	\$100 00	
Miss Frances Pell.....	50 00	
Wm. Gaston Hamilton.....	100 00	
Wm. F. Sebert.....	100 00	
John A. King.....	100 00	450 00
		\$37,252 00

Maintenance :

Dues from Annual Members.....	\$6,940 00	
Department of Public Parks.....	35,413 55	
State Department of Public Instruction.....	2,697 00	45,050 55
		\$82,302 55
Balance brought down to 1893.....		27,306 96

\$109,609 51

[E. & O. E.] NEW YORK, *January 2, 1893.*

CHARLES LANIER, *Treasurer.*



ADDRESSES AT THE RECEPTION

TENDERED BY THE TRUSTEES OF THE

American Museum of Natural History,

AT THE MUSEUM BUILDING,

Seventy-seventh Street and Eighth Avenue, New York City,

WEDNESDAY, NOVEMBER 2d, 1892,

In Commemoration of the opening of the New Wing.

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

LADIES AND GENTLEMEN, FELLOW MEMBERS OF THE AMERICAN MUSEUM OF NATURAL HISTORY.—On behalf of the Trustees I bid you a cordial welcome this afternoon. Before proceeding to make to you any statement with reference to the Museum affairs, it will be necessary for us to have presented by the city the buildings which you are called this afternoon to inspect. I, therefore, have great pleasure in introducing to you the Hon. Paul Dana, the President of the Department of Public Parks, who will present this building to the Museum authorities.

The Hon. Paul Dana, President of the Department of Public Parks, presenting the Building on behalf of the City to the American Museum of Natural History, spoke as follows :

MR. PRESIDENT, LADIES AND GENTLEMEN.—It is about fifteen years since the occurrence of an event similar to this. It was in 1877, I believe, when Mr. Stuart, President of the Natural History Society, received from Mr. Martin, then the President of the Park Board, the first completed section of this building. To-day I have the honor to deliver to Mr. Stuart's successor, Mr. Jesup, the new wing. When we see the splendid results of the few years of this Society's existence, we feel that Mr. Stuart must have possessed qualifications for his duties equal to those

of Mr. Jesup, for certainly this institution could not be what it is to-day if it had not been conceived in a wholly liberal mind, and its work begun with the best of energy and understanding. Many of you are familiar with its entire growth. A few years ago it was a tenant on sufferance in cramped quarters in the old arsenal on the other side of the park. It is here an equal partner with the city in this admirable portion of a much greater building still to come, recognized as one of the city's most valuable ornaments, with an equipment which gives it a place among the great public collections, and with a future of brilliant and unlimited hope. Its excellence may be judged partially by the readiness with which the City Authorities have contributed towards its enlargement. I think the Trustees will bear me out in saying that public money has always been forthcoming for its benefit, with all the freedom that is consistent with official responsibility. In order that you may have a better idea of what it is we are about to dedicate, I have been requested to describe it more in detail. The architect, as you know, was Mr. Cady. His success is evident. I trust that this later monument of his art may not meet with the unfortunate fate of one lower down town, the Metropolitan Opera House; but to guard against that this one is entirely fire-proof so far as it can be made so. Omitting the cases for exhibition it covers 23,000 square feet, which with the old building makes 37,000 square feet. It has three exhibition halls, 60 x 110 feet; six, 25 x 118; a lecture room, 60 x 110; and a library, 25 x 108, in which the books are piled in practically indestructible stacks of iron. There are five thousand running feet of exhibition cases. The money appropriated for the work was \$800,000, of which \$100,000 was spent in repairing the old building, and \$75,000 in the cases, so that the net cost of the new wing was less than \$600,000; and it is proper to say that there is not a charge for extra work in the record of its construction. Besides this, nearly a half million dollars has been assigned for further additions, chiefly for a lecture hall much larger than this to meet the need which has been amply proven by the success of the lectures.

It is not for me to stop for any eulogy of this institution, although here, according to Mr. Spencer, are the foundation

stones of education. Science and scientific cultivation, in his opinion, furnish the true basis not only of the higher learning, but of every intellectual elegance and accomplishment. You all know what the Museum is. You may imagine what it will be when its buildings shall cover Manhattan Square, and it will be asking for more room still. Contemplation of its future moves me to introduce another subject closely related with it ; but first, it is necessary to refer to a certain portion of the Museum, in order that there may be no misunderstanding of my remarks.

There is here the collection of woods known, I believe, as the Jesup Collection. A more original, a more beautiful, a more instructive feature of a Museum doesn't exist. I am proud to think that I had some part in hunting for its specimens. That stands by itself. It needs neither praise nor apology. Under Mr. Jesup and his colleagues, the Natural History Museum has enjoyed a model administration. The President himself has been a contributor of unequaled liberality and success, and the collections here are of unexceptional value throughout. It would be difficult to find an institution built up with a more disinterested spirit of contribution and a sounder supervision. What I am about to say fails of application here. Nevertheless I must speak of a danger which overhangs all public institutions waiting to be filled with private gifts, frequently to their serious damage. A generous contributor is often tempted from a desire to perpetuate the memory of his own individuality and fancy, in addition to perpetuating his name, to impose conditions upon his gift which may conflict with the general advantage of the Museum as a whole. He demands that his collection shall be accepted and preserved intact. It must have special accommodations. Those accommodations are often established and provided for thereafter by special funds. Yet there may be in those collections some specimens, either scientific or artistic, which are a duplicate of those already owned. There may be other inferior specimens which an impartial expert would prefer to wait for in a better form. So, if it is provided that this gift, which on the whole is too valuable to be rejected, if it is provided that it shall exist as it is given, just as the particular taste or the opportunities of the collector may have made it, it enforces a most unbecoming sacrifice in the

shape of room which can be ill afforded, and which a wise and unhampered management of a museum would reserve for better uses later on. This may sound somewhat harsh and ungracious, yet as the representative of the city department through which the public money is expended for housing and caring for this institution, it is proper for me to bring the facts mentioned to the attention of all whom in the fullness of their public spirit they may concern.

With an apology for the intrusion of these remarks, I now have the honor, in the name of the city, to transfer this building to the keeping of you, sir, the President of the Natural History Museum.

Address by Morris K. Jesup, President, accepting the Building on behalf of the Trustees:

MR. DANA.—It is a most felicitous circumstance, sir, that your father was one of the incorporators of the American Museum of Natural History, and we are very happy to have his son give us, in behalf of the city this afternoon, this beautiful building. On behalf of the Trustees the gift is accepted, and it will be proper for me to state to this audience in a little detail the relations between the city and this Museum. There is a contract duly authorized and directed to be made by the Legislature of the State of New York between the city and this Museum. It gives to the Museum the use of Manhattan Square for the further use in perpetuity of the buildings that may be erected thereon, and that the buildings when completed are to be properly policed by the city and kept in repair. This contract is perpetual. The city has no right to rescind it. The Trustees on the other hand agree that, in consideration of the contract and lease, they will occupy the buildings with their specimens and material for the public use. The Trustees have the right to make the appointments, and have the entire control of the force employed in these buildings, except the police. This was a most wise and proper arrangement, for under it there has been no difficulty in getting the wisest and best men to serve as Trustees, knowing and feeling that in that office they were responsible to themselves and to the people, and

it is because of this responsibility that this institution and the Metropolitan Museum of Art have grown to such vast results and usefulness. I hope the time will never come when either of these institutions will be looked upon for public spoil—when either political party may feel that these institutions are to be used in any way for political purposes. Thus far, the municipal authorities have kindly, wisely, willingly and unselfishly left the management of these institutions according to the contract. I think it right that you should understand the arrangements existing between the city and the Museum, and the conditions under which this building is accepted to-day.

Now, I had prepared a brief address in writing to make on this occasion, but one of our oldest Trustees a few minutes ago said to me, "You are not going to read an address, are you?" He said, "I will give you \$50 not to do it." I will not take the \$50, but just say a few words with reference to this Museum. The Trustees have a laudable pride in presenting to you this building to-day stored as it is with so many treasures that come from nature, properly exhibited; the building beautifully lighted, and everything arranged for the comfort, pleasure and entertainment of the public. We think the Trustees are justified in expressing their gratification at the success which has been achieved.

Regarding the material within these walls (Mr. Dana has spoken of the cost of these buildings), it is right that I should tell you that the two buildings have cost the city about a million and one-half dollars. It is right, also, that you should know that the Trustees and their friends, with the public, have contributed in money and in specimens to the value of one million, seven hundred thousand dollars. Three hundred thousand of which has been given to the Trustees as an Endowment Fund, the interest of which is sacredly pledged to the purchase of new material, and to the enriching of the specimens and material which we have. It is right that I should tell you that since these buildings were opened the cost to maintain them has been about four hundred thousand dollars, and while I will let the city have all the credit that is its due, you should know that quite one-half this sum has been paid by the Trustees and the public. Therefore, you will observe that up to this time the city has paid only about

half the expenses of maintenance. But this state of things cannot continue. The expenses of the Museum are constantly increasing. You, as New Yorkers, would have but little confidence in the Trustees if we remained as now, with no progress. The Museum cannot stand still. It must go on; wing after wing must be built, and in course of time—probably none of us may live to see it—but in course of time this entire square must be covered with buildings belonging and necessary to this Museum. When the contract was made with the city, one of the advantages left to the Museum Trustees is now changed. We had two days in the week for private exhibiton; the other four were free. The Museum was not opened on Sundays or evenings, but as the Museum grew in popularity, the public interest increased, and the advantages of popular education presented themselves; people demanded that it should be opened free during the entire week and two evenings, also on Sunday afternoons. The Trustees with a magnanimity, unselfishness and generosity, which has I think always characterized their actions, gave heed to this public sentiment, and by an arrangement with the city it is now open to conform to the people's demand. By doing this we have not only increased our expenses, but have been deprived in some cases of large pecuniary support from friends who did not conscientiously approve of the change. It is right, therefore, and proper, that this Museum and its sister Museum on the other side of the park should require from the city authorities that they shall sustain and maintain the Museum in all operating expenses. Ladies and gentlemen, what a small item it is for the city to do this in consideration of the advantages that these Museums confer on the great masses of the people. Look at the Exhibition Halls for amusement and instruction; the lectures for education; and consider what we are doing for science and for the student. The buildings are well lighted and heated, and contain a Lecture Hall comfortably seating one thousand people. Is there in New York a source of enjoyment so refined, uplifting and ennobling to the masses of this great city as these two Museums present? Let the city be generous and magnanimous, and appropriate to these Museums the money they need for their proper maintenance and exhibition.

I have been interested in reading the address of the late Prof. Joseph Henry, the great scientist, in the speech that he delivered on the occasion of the laying of the corner stone of the first building in 1874. I wish that a copy of that address could be placed in the hands of every lover of natural history and science in this city. Strange to say, that although years have elapsed since that address was made, and perhaps forgotten by many, what he predicted these Museums should or ought to do, in a great measure has been done. I have also been interested in reading the remarks made by Prof. Marsh, of the Yale University, on the same occasion. That which he said was necessary to be done, in order to make a great Museum is now in process of development, and I may say with fair success thus far. I quote from the words used by Prof. Marsh, on December 22d, 1877 :

“ There is yet a more important reason for making this institution a centre for original research. The science of to-day stands face to face with great problems. The antiquity of man, the origin of the human race, and even the origin of life itself, are among the questions which the present day submits to science, and to which it demands an answer. If these problems are to be solved by science, America must do her full share of the work, for the materials are here. In all that pertains to ancient life, the Western Continent possesses countless treasures unknown in other lands ; these, as I believe, are to unlock many mysteries in Biology, and render important aid toward the solution of the profounder questions I have named. American science can thus repay its debt to the Old World where science began, and gathering new facts from broader and richer fields within her own borders, carry forward with the vigor and enthusiasm of youth the never ending search for truth.

“ If the American Museum of Natural History, opened to-day under such favorable auspices, does not take a prominent part in this great work, it will not do justice to its founders, or to its opportunities. But with such a foundation as we have here, and such resources as wait to unfold their secrets within walls yet to be reared on this commanding site, I venture to predict for natural science in America greater triumphs than have hitherto been won in any land.”

Looking back in the light therefore of history, I cannot but congratulate the Trustees and the city that we almost unawares have thus far succeeded in carrying out the wise counsel and judicious advice given to us as thus set forth.

We have great treasures stored within these walls. Take the Department of Geology, of which Prof. Whitfield is Curator ; the

collection of minerals has been so enriched, I think I am justified in saying that it ranks third in this country. We have the great collection of Prof. James Hall, that veteran scientist, whose name is a household word among all the scientists in this land and the world, and I am happy to say that we have him with us to-day on this platform. This celebrated collection represents the entire Palæontological publications of this State; it contains many thousands of types and figured specimens, and is full of instruction and science. In the Department of Zoölogy, and of which Prof. Allen is Curator, we have the important collections of Prince Maximilian, of Lawrence, of Elliot and of Mearns. The Department of Archæology and Ethnology, of which Mr. Terry is Curator, contains the famous collections of Emmons, Bishop, Sturgis, Jones and Terry; the whole representing the Archæology of all the United States, especially of the Pacific Coast. We have in our Department of Entomology, in charge of Mr. Beutenmuller, the Angus, Elliot and the Harry Edwards Collections. Prof. Henry F. Osborn, of Columbia College, is the lately appointed Curator of a new Department of Mammalian Palæontology, with an efficient staff for field collection and museum work; the purposes of which department is to secure for exhibition and study a complete series of Western fossil mammals from the earliest and smallest to the latest and largest that have appeared on the American Continent, and to illustrate especially the evolutions of the horse, rhinoceros and other existing animals. The Department of Public Instruction has been carried on under the auspices of the State Superintendent of Public Instruction since 1884, and during that time Prof. Albert S. Bickmore has delivered one hundred and fifty lectures upon the collections of the Museum and various countries which he has visited. These lectures are already repeated in the Normal Schools and Teachers Institutes throughout the State. Our library numbers twenty-six thousand volumes relating to natural history. The Bulletin of the Museum, now in its fourth volume, contains papers on a wide range of subjects, and takes a high rank among similar publications of scientific institutions. Guides to the collections give not only the places of specimens in each case, but form condensed hand-books of the subjects treated.

So we have endeavored to gather in this Museum not only that which shall please the eye and cultivate the taste, but also to give instruction to the student and the scientist. Our aim is to make these collections more and more the source and means of study, instruction and recreation. To do this we must have educated men, and the coöperation of our institutes of learning; our halls will be opened to the schools and classes of this city who shall come with their teachers to receive that instruction, and pursue their investigations from the specimens that will make them proficient in their chosen vocation. The Trustees have endeavored, with the help of the city authorities during these many years past, to present to you and the public to-day, a Museum equal in all its parts, as we think, and I say it modestly, one of the best, and if allowed to grow and progress in the future, will be one of the most renowned museums of the world.

Address of Hon. Seth Low, President of Columbia College :

MR. PRESIDENT, LADIES AND GENTLEMEN.—A few years ago it was my good fortune to visit Mr. Edison in the establishment which he then maintained in the City of New York. He took me about it to see what was being done there, and as we came to some of these bulbs, which were being prepared for the electric light, he told me that they very early discovered that this light could be produced in a vacuum, and their great difficulty was to learn how to create a vacuum with commercial cheapness. At last it occurred to him, I believe, or to one of his colleagues, that the vacuum could be produced by driving mercury through the glass, the mercury being dense enough to dispel all the air, or a sufficient amount of it to answer their purpose. They thought then that they had solved their problem, only to discover that they could find no pump which would pump mercury, just because it was so dense no pump would do the work. At last it entered the fertile mind of that magician himself that the old pump of Archimedes, the endless screw, would do the business. As a consequence, this most modern of inventions rests absolutely for its possibility to-day upon one of the earliest recorded inventions of mankind. I think that is an instructive incident.

I am led back in my thought to a great antiquity by this word "museum." In the form in which we have it, it tells of those conquests of imperial Rome, whereby she subjugated all the world, and in the great reach of her conquering arms finally brought under her dominion Greece, the mother of letters and of art. The Greeks had this thing, and they called it mouseon, a temple of the Muses. The Romans took the thing and changed the word into the form in which we have it, and so we are celebrating to-day, in the opening of this new building for the Museum of Natural History, the modern form of an idea that has occupied the attention of mankind as something worth their while for many centuries.

A museum has two sides to it, what one may call the popular side and the scholarly side. On its popular side it may serve, I think, a two-fold purpose. The Spaniards have a proverb of a narrow-minded man that may have originated in the days of Columbus, for aught I know; they say of such an one that he has never been seasick; that is, he has never travelled; he has not had his eyes opened by seeing different nations, by witnessing their customs, by realizing that no nation has all the wit and wisdom of the world, nor all the goodness of it either. A city like New York, to which so many different nationalities come, is a cosmopolitan city because they come here, but there is something in different countries besides the people that inhabit them, and this Museum is one of the agencies that lays before the people of New York that which is to be seen in other lands, under other skies.

I recollect hearing an anecdote of a man living in southeastern Kentucky, upon one of the mountains there, who had never left his native hillside till he became a man fifty or sixty years of age. Some momentous event in his history compelled him then to make a journey twenty miles distant. He returned to his home and addressed his son somewhat in this way: "Sonny, if the world is as large in every direction as it is the way I went, I tell you it is a whopper."

I think, therefore, a museum is an enlarging influence, a distinctly enlarging influence, in the midst of a great population like this, only a small portion of whom, even under modern condi-

tions, are able to see what is to be seen in other lands. I know, of course, that with the development of photography the eye may travel around the world. Men have often wondered, as you know, how this planet would seem—what it would look like—viewed from interstellar space. Have you ever thought that we really look at the world in these days of ours with the eyes of the sun itself? You remember that Scripture says that there is nothing hid from the heat thereof, and so as you come to the lectures that are given in these halls, and see produced day after day, week after week, year in and year out, the pictures which the sun has taken, that consummate and indefatigable artist, do we not realize that those of us who are fortunate to live to-day really see the world with the eyes of the sun itself.

But on its popular side these collections may serve another purpose, I think. I wonder whether you recall Longfellow's poem upon Agassiz, written on his fiftieth birthday. He pictures to himself nature as a nurse taking its baby child upon her lap, and the lines go as I recall them :

“And Nature, the dear old nurse, took the child upon her knee,
Saying, ‘Here is a story book thy father has written for thee.’
Come wander with me, she said, in the regions yet untrod,
And read what is easily read in the manuscripts of God.
So he wandered away and away with Nature, the dear old nurse,
Who sang to him night and day rhymes of the universe ;
And whenever the way seemed long, or his heart began to fail,
She would sing a more beautiful song or tell a more marvellous tale.”

Who can tell what the inspiring wonders of a collection like these are upon the multitudes who pass to and fro before the cases which contain the collections. Longfellow said on one occasion that the most profitable course of lectures he ever delivered was delivered to a single student ; the subject of the course was the history of the Netherlands, and the student was John Lathrop Motley. I do not know how many Motley's may pass through this hall ; the world never knows its Motley's or its Aggasiz's or its Humboldt's, until they reveal themselves in future years, but seeds may be planted here every day that will bring forth rich fruit in the years to come. And this reflection leads me naturally to the other side of the Museum, that which I have spoken of as the scholarly side.

Every such collection is made up of two parts; that which is placed upon exhibition to attract the eye, to interest, to amuse, to inspire, and that which is not placed before the eye, but which is held for purposes of investigation and research by men who are competent to read the manuscripts of God.

Now that function is distinctively the function of the scholar, the function of the scientific man. However much any of us may wish to perform that service, it can be performed only by those men to whom God has given the gift, and who have developed the gift by education, and by nights devoted to labor, and days devoid of ease. I count it, Mr. President, a most felicitous circumstance—to use your phrase—that upon this occasion the President of Columbia College is permitted to take part in the opening of this new building, because it seems to me that the relation between the institutions of learning contained in this city and this Museum, may be not unfairly illustrated by comparison with the powder and the gun. The powder and the gun, apart from one another, have great potentiality of effectiveness; united they demonstrate their power. Similarly, I think, the Museum and the institutions of learning which seek to make researches to advance the state of human knowledge belong together, at least in a part of their labors.

As I conceive their proper relations, it is in the main, this: The business of a museum is to make collections, and to give the opportunity for study. The business of a university is to use collections, and to provide the men who will conduct the researches, and tell what the collections signify to the great world of mankind. I am happy to say what may not be known to all of you, that relations based upon this thought have already been entered into between this Museum and the venerable College which I have the honor to represent. Commencing, I think, this month, lectures will be given by Professors of Columbia College in one of the lecture rooms of this institution, which, as I understand it, are to be open to the public. The first course of lectures is to be upon that unique and admirable collection of American Woods which has already been referred to as the Jesup Collection; that will be followed by courses upon astronomy, upon the mineral resources of the United States, and upon chemistry.

These lectures are intended to add to the popular value of this Museum. In connection with these services on the part of the College, the Museum throws open its collections, and grants the opportunity of research to the Professors and students of Columbia, who may be able profitably to use them. It gives me pleasure to say that in striving to bring about this arrangement Columbia has had no thought or desire for an exclusive privilege. We shall be only too glad to have our colleagues engaged with us in the work of advancing higher education in the City of New York do the same thing, and profit by all the privileges that are here. Whatever else may be true of education, I think it is distinctively true that no great advance in education ever was made along narrow lines. We must work together to produce the best results for the people of the City of New York and for the inhabitants of this country, and it is in that spirit that this arrangement has been begun. I hope it will be continued and developed until all its latent possibilities are made clear to the public as the years roll on.

I have spoken thus far, Mr. President, of the service that this Museum might be to the people of the city and to the scholars of the city. I should fall wholly short of its full significance if I did not point out to you that it was one of the great agents in the City of New York for rendering a service to mankind. You remember how Tennyson says of his hero in Locksley Hall, that he is the heir of all the ages; we stand here as a country pre-eminently the heir of all the ages. New York is the great city of that fortunate and happy heir. I submit it to your reflection that a city that is to rank as a great city on the memorial pages of history, must be a city that not only receives what the rich past has to give it, but that takes what is committed to its trust, transmutes it into a finer gift, and hands it down ennobled and enriched to the generations to come.

Address by President Jesup, introducing the Hon. Abram S. Hewitt, the Right Rev. Henry C. Potter, and Archbishop Corrigan:

I know that your patience will not be taxed to wait a few minutes longer, for I want one of our Trustees, the Hon. Abram S.

Hewitt, to say a few words to you, and then we have with us also, I am happy to say, our friends Bishop Potter and Archbishop Corrigan, and I am going to ask them if they will say a few words. It is not often that we get together, ladies and gentlemen, on an occasion like this, and I am sure that you will not begrudge a few minutes longer.

Address by the Hon. Abram S. Hewitt:

LADIES AND GENTLEMEN.—Perhaps I ought to begin by saying that I am not the Trustee who offered to give Mr. Jesup fifty dollars in case he would't read his address, and if I had been the Trustee who made the offer I certainly have gained nothing by the proposition, for Mr. Jesup has not only delivered his address, but he has delivered it with a fullness and a force which leaves nothing for any other Trustee to add. But there is one thought which has come into my mind in listening to the addresses of Mr. Jesup, President Dana and President Low, and that is the duty of the city to itself in reference to the great institutions of learning and the means of instruction which exist in this city.

St. Paul, who I think our good friend the Bishop will admit had a level head, divided cities into two kinds, one of which he called mean city and the other he called city, by distinction, and he prided himself upon being a citizen of "no mean city." Now, you and I and all of us have a right to be proud of the City of New York. It is not a mean city; it never has been a mean city. In every period of its history it has shown itself to be equal to any demand that has been made upon its intelligence, its patriotism, its liberality. It is not going to be a mean city. Athens, according to the best authority that I know, its great ruler Pericles, was the type of a noble city. Pericles tells us that there was not in Athens much spirit of private display, that there were not much riches in private hands, that there was a wise economy, to use his words, in the expenditures of the citizens within their own households, but when it came to the city itself he says, "There is a proud consciousness on the part of the people of Athens that they live in a noble city, and that they must be worthy of the city," and hence although there were no laws in

Athens to prevent the acquisitions of large fortunes, yet when men acquired them they used them for the public good, and when it happened, as sometimes it did, that there was a citizen of Athens who was not, according to the public sentiment or judgment, using his wealth wisely, the citizens got together in the Agora and they discussed the situation and held an experience meeting on his case, and it usually ended by voting that the citizen should build a trirema or some institution for the public benefit, and the citizen thus admonished always went and wisely acted on the hint, lest his latter end might not be so agreeable as his beginning.

Now the relations of the citizens of New York as a corporate body and of the citizens as individuals to this institution and its sister institution, the Museum of Art, are to my mind not only felicitous, but most suggestive as to the proper use of the growing wealth with which this country is endowed. Mr. Jesup has explained to you that the city is the owner of this building and of the Museum of Art; that it has paid for this building, that it has entered into a contract with certain of its citizens to administer the bounty of the city in the public good, and that these citizens, mostly men of wealth—not all, but all men who ought to be rich—have agreed on their side that to the extent the city will supply the accommodations they will cause it to be filled with worthy collections in art, in science, in every branch of human knowledge which it is good for the citizens of New York to study and possess.

Now this suggests what I regard as the fundamental idea which should govern the City of New York in the administration of its revenues and the rich men of New York, in the disposition of their wealth. There never will come a time I trust when it will be necessary to call a public meeting in the City Hall Park to pass upon the duty of the rich men of New York, because so far as my own experience goes, extending back to a half a century, there never has been a worthy object presented to the rich men of New York which was not promptly executed by their willing beneficence.

My young friend, President Low, who has been elevated in his early life to the most responsible position which can be occupied

by a citizen in a great community, full of the idea of what makes a noble city, determined that New York shall realize its destiny, has proposed and is carrying into execution the great scheme of a University which shall include all knowledge and secure the coöperation of every institution of learning within the limits of this city. He has appealed to the public of New York for money to build a suitable habitation for such university as the City of New York ought to have, and he will get the money beyond any doubt.

My honored friend, Chancellor McCracken, is engaged in a work equally meritorious, and although it has not the advantage perhaps of the venerable claims of Columbia College and may not have the sanction of so many years in its favor, yet the work which he proposes to do is one worthy of a great city, and he also will find that his plans will be responded to by the rich men of New York who sympathize with him; and so when this institution and the Museum of Art go to the city authorities and ask them to furnish the means for opening these halls and those other halls on the other side of the park to the public, free as the air of heaven on the Sabbath day, and every other day, where is the Mayor, where is the Board of Apportionment, where are the Park Commissioners who will deliberately say "We are officers of a mean city, and we will not give you the money necessary for noble ends!" No. The money will be granted. The public opinion which is developed in this room decides the issue. The smile on the face of my good young friend, the President of the Park Department, indicates that he will go to the Board of Apportionment and ask for all the money that the Legislature has authorized. And I know the Mayor of this city well enough to know that coming as he is to the close of an administration longer than is usual in the municipal history of this city, I know that he and his colleagues will desire to signalize his administration by a crowning act of public beneficence for which the people of New York will be profoundly grateful.

Address of the Right Rev. Henry C. Potter :

It is so very unusual to meet Archbishop Corrigan on a platform in New York, that I think he ought to make a speech to-day,

and I beg him to understand that I am making it for him. I am sure no one within these walls can have any other than one feeling, in view of the completion of the building within whose precincts we are gathered this afternoon. President Low, ladies and gentlemen, has said that there are two sides to the work of a Museum of Natural History—two aspects—and I could not help thinking as I came here this afternoon that one of the two which was gratified by one sense of taste was the new outside which has been so felicitously completed. Certainly it is an indication of progress that here, in connection with the earlier construction of buildings, so much, we are sure, of that New York of which we are all proud, has been thus far completed. I wouldn't misrepresent my friend, the ex-Mayor, but I thought perhaps there was a tone of that fine self-assertion in the remarks which he has just made to you which belongs to New York, in view especially of the recent triumph of Chicago.

A young theological student writing to me from the far west the other day, having been to see the buildings which have been erected in Chicago for the Columbian Exhibition, himself a westerner, described the situation as it struck him, in a phrase characteristically western, when he said: "My Dear Bishop.—Believe me if I tell you, after having seen these magnificent buildings, that Chicago beats her friend." A very large task, some of us who know Chicago, to have been accomplished; and yet when you remember, ladies and gentlemen, the buildings which have been erected of singular beauty, of remarkable felicity of arrangement, every one of them, I believe, designed by an architect from New York, and decorated by a decorator from New York, that every one of those buildings is destined, if left to itself, to tumble down in ten years—it is a very interesting and suggestive contrast of the remarkable result which has been achieved here within these walls and on this site, as illustrating a wholly different end. Believe me, we have a place for the instruction which is ephemeral, but we have a much more large and hungry place for the instruction which is permanent. This building has come to stay, and it stands, if I understand it aright, ladies and gentlemen, for ideas which are preëminently a part of the highest civilization in what we believe to be the most beautiful country in the world.

I confess I have heard since I came within these walls one assurance in regard to its future use which has filled me with profound satisfaction. I refer to the close of my good friend's address. I have never met him, I think, on a public occasion, except it was in relation to some building that he himself had reared, like the lodging house, where I think we last met on the same platform, or here in this completed work with which he has so much to do. I thought, as I say, as I entered the room, of a few of the works with which he is connected ; and my friend, the President of Columbia College took up the same thing. I believe that one of the great uses of this Museum of Natural History is not alone to gather those remarkable collections which have been rehearsed here, but also to illustrate, and if I may use the word, to transform them into living out of dead things by the voice of the living teacher. Believe me, after all, ladies and gentlemen, that office is the mightiest power in the world. What we want is the nurture of the power of process and accurate observation. We get that in any museum, whether it be a museum of art, or of natural history, or work of archæology, but we get it most of all and best of all when we get it in connection with the electric flash of some educated and subtle mind that takes the specimen, whatever it might be, and holding it up before the people's eye makes it to live, because there throbs behind the specimen the living and cultured intellect.

My friend, Charles Waldstein, an American and a New Yorker of whom we are justly proud, is to-day the head of the great University in Chemistry, and a Professor in the School of Archæology in Athens ; went there, as I am told, a number of years ago, when a number of his confreres had dug up in Athens a fragment of stone over which they had been for weeks and weeks puzzling, asking "What was it?" "Where did it come from?" "To what did it belong?" Then it was Waldstein, turning the stone over and over again in his hand, held it up and said : "Why, it is a bit of the frieze of the Pantheon." There it was that you have the marriage of a fine intellect and highest culture with what is written in stone, or any work of nature. Believe me, as a New Yorker, I am profoundly proud and thankful for the men who have reared up for themselves remembrances ; who have enriched

this great city with these monuments of learning to the people of all classes ; surely it is significant, as we sit here with the son-in-law of Peter Cooper, who opened that other school at the other end of this city, that on this platform are men whose names will go down to posterity for the services they have rendered to this Museum of Natural History, to the Metropolitan Museum of Art, to these great classes of learning which we are here in the name of New York to thank them for ; and in your behalf, I am sure, ladies and gentlemen, to say that we take them into our own loving care, and will guard them reverently and vigilantly for all the future.

President Jesup invited Archbishop Corrigan to address the audience in conclusion of the ceremonies, but the latter asked to be excused, by reason of the lateness of the hour.



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Two rolls of text.
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GEOLOGICAL DEPARTMENT.

- HARVEY BAXTER, Brooklyn, N. Y.
Eleven specimens of *Micraster cor-anguinum* and three of *Ananchytes
ovatus*, fossil echinoderms from the Chalk Cliffs of Dover,
England.
- BEIRUT PROTESTANT COLLEGE, Beirut, Syria. Through the Rev.
D. Stuart Dodge.
Three blocks, with polished faces, from the Cretaceous limestone on the
slopes of Mt. Lebanon, Syria. They represent the Hippurite and
Nerinea limestones, and show these fossils on their polished
surfaces.
- GEORGE CRAWFORD, Brooklyn, N. Y.
Five shark teeth, one horse tooth, and two cetacean (?) vertebræ,
gathered in Brooklyn but originally obtained from dredgings at
Charleston, S. C.
- T. COOPER, Brooklyn, N. Y.
Two sharks teeth from the Tertiary at Farmingdale, N. J.
- PROF. J. DOUGLAS, Spuyten Duyvil, N. Y.
Three slabs of *Eozoon canadensis* from Canada, and one *Clypeaster
altus* from the island of Malta—parts of a collection originally
belonging to the late Dr. T. Sterry Hunt.
- DR. GEO. JACKSON FISHER, Sing Sing, N. Y.
Fragments of jaws of *Mosasaurus*, vertebræ and many other bones and
fragments, from the Cretaceous marls at Freehold, N. J.
- LEWIS W. GUMBEL, Utah. Through Mr. C. P. Rowley.
Specimens of *Gryphea pitcheri* from Utah, San Juan River. Dakota
Group. Cretaceous.
- W. W. JEFFERIS, Philadelphia, Pa.
One block of Utica Slate bearing *Diplograptus pristis* from Ft. Ann,
Washington Co., N. Y.

- MRS. RICHARD P. DANA, 146 West 14th Street, New York City.
One fossil elephant tooth from Florida.
- J. L. LOCKWOOD, Stamford, Conn.
Fragment of lava enclosing fragments of silicified rushes (tule) from three miles west of Uncle Sam Mts., Lake Co., Cal. Quarternary.
- WM. H. NIVEN, New York City.
One Mastodon tooth, fifth series, one Mastodon tooth, sixth series, both from Lodi, Seneca Co., N. Y.
- A. C. SCANLON, Port Jefferson, S. C.
Six shark teeth dredged in Charleston Harbor, and one horse tooth from the same locality.
- E. J. SCHMITZ, M. E., New York City.
Fucoids or Cruziana sp. undet. *Conostichus* sp. undes., both from Cullman Co., upper Alabama. Group of *Caprotina* sp. undes.; Echinoderm sp. and genus undet.; Arca sp. undesc.; all from the Triassic, south of Bisbee, Arizona, also *Ostrea engelmanni* Meek.
- J. F. TONKS, New York City.
Slab of Catskill sandstone from Wautauga Falls, Delaware Co., N. Y., containing annelid burrows.
- UNITED STATES NATIONAL MUSEUM, through C. D. Walcott, Washington, D. C.
A cast of *Asaphus megistos*, showing ambulatory appendages.
- CAPT. A. W. VOGDES, U. S. A.
Fossils from Astoria, Washington, from the Eocene, Miocene, possibly Carboniferous, about 250 specimens.
- MORRIS K. JESUP, New York City.
A collection of fossils amongst which were a number of Niagara limestone Trilobites, with numerous other specimens gathered from a great number of localities. (C. W. Field Coll.)

MINERALOGICAL DEPARTMENT.

- CH. L. BERNHEIMER, New York City.
One specimen of Salt, St. Vincent, made in Ocean Salt Pans.
- HENRY BOOTH and C. LOWN, Poughkeepsie, N. Y.
Fifty-seven specimens of Baltic Ambers, comprising many polished examples, holding insects, with three curdled and clouded masses, with some rough uncut fragments.
- From JAMES B. HAGGIN, New York City.
A block of Copper Ore (Chalcocite), weighing 6041 pounds, containing 59.1 ounces Silver to the ton. From the Anaconda Mine at Butte, Montana.
- R. J. CROSS, New York City.
Specimen of Silver Ore, from the Enterprise Mine of Rico, Colorado.
- MRS. RICHARD P. DANA, New York City.
A various assortment of minerals, amongst which were valuable native Coppers.
- J. DAVIS, Orange, N. J.
Specimens of Trap and Hydrous Silicates, from Orange, N. J.
- C. F. LACHMUND, New York City.
Specimens of Asphalt, one *Gilsonite*; specimens of Rock Salt, Granite and Jasper Conglomerate, from Utah.

- J. L. DAVIDSON, Lockport, N. Y.
Two handsome specimens of Dolomite ; One small Geode ; One specimen of Gypsum with Dolomite ; One specimen of Granular Gypsum ; all from Lockport, N. Y.
Three Quartz Crystals curiously capped with secondary growth, from Red Lake, Jefferson Co., N. Y.
- J. R. HUDSON, New York City.
One specimen Opalized Wood, Uinta Co., Wyoming.
Fourteen specimens of Silver and Gold Ores, from Lander Co., Nevada.
- S. A. KNAPP, through D. O. Mills, New York City.
A collection of Ores (silver, lead and copper), from Nevada.
- T. D. LEDYARD, New York City.
Six Sodalites with Elæolites ; location unknown.
- H. L. O'CONNOR, New York City.
Specimens of Garnet, Limonite, Muscovite, Sphaerosiderite and Tourmaline, from New York Islands and vicinity.
- H. E. and H. OPPENHEIMER, New York City.
A small collection of cut-stones including Amethysts, Aquamarines, Bloodstones, Carnelian, Garnets, Hematite, Moonstone, Pearl, Quartz, Onyx, Topaz, Turquoise and Tiger's Eye (Crocidolite). Exhibited in Gem Collection.
- PETERS & CO., New York City.
A collection, handsomely mounted, of Stassfurt Salts, including Boracite, Carnallite, Halite, Kainite, Kieserite, Sylvite, Tachydrite.
- DR. ROLF. PIHLGREN, New York City.
A short, narrow slab of Silicified Wood, from Dalton, Pa.
- N. B. POWTER, New York City.
A large series of Phosphates, from Canada, Florida and West Indies, illustrating the various grades of fertilizers, and furnished with percentages of Bone Phosphate, etc., in detail.
- SANDERSON SMITH, New York City.
Saucer of Serpentine, polished saucer of Fluorite, paper weight of Aragonite, and one specimen of Verde Antique from the Church of Santa Maria Maggiore, Italy. Three polished oval Agates from England ; one piece of polished Green Porphyry. Exhibited in Gem Collection.
- TIFFANY GLASS AND DECORATING CO., through Jno. DuFais, N. Y.
One specimen of polished noble Serpentine, from Lissoughter Quarry at Recess (?), Connemara Co., Ireland. In Gem Collection.
- Mrs. CHAS. WARREN, Middletown, N. Y.
A various collection of minerals, embracing minerals from Paterson, N. J., some slags not located, and a number of miscellaneous specimens.
- A. YOUNG, New York City.
One bowl-shaped Hematitic Concretion, from California.
- SISTER MARY AUSTEN, New York City.
One Stalactite, from Mammoth Cave near Garcia, Mexico.

CONCHOLOGICAL DEPARTMENT.

- CH. L. BERNHEIMER, New York City.
Specimens of shells, from the West Indies.
- MRS. RICHARD P. DANA, New York City.
A large number of sea shells from various localities.
- A. E. DOUGLAS, New York City.
Specimens of *Voluta junonia*, from Florida, and a large number of marine shells from the same locality.
- HARRY EDWARDS (deceased), New York City.
Egg sacks of Molluscs.
- I. GREGOR, Jacksonville, Fla.
Several species of *Cypræa*, from coast of Florida.
- DR. E. A. MEARNS, U. S. A., Minnesota.
A large series of *Unios*, from western rivers.
- MERCANTILE LIBRARY, New York City.
A miscellaneous collection of shells, comprising *Tellina*, *Hippopus*, *Cardium*, *Murex*, *Triton*, *Strombus*, *Pteroceras*, *Dolium*, *Cassis*, *Cypræa*, *Oliva* and *Voluta*; about 90 shells, with *Discina lamellosa*.
- MASTER VICTOR MEYER, St. George's, Bermuda.
Specimens collected by himself of *Columbella mercatoria*, *Volvaria avena*, *Trivia rotunda*, *Scalaria clathrus*, and *Neritina (Villa) viridis*.
- JENNESS RICHARDSON, New York City.
A group of Florida marine shells.
- G. S. STANTON, New York City.
Fifteen species of *Strophia*, from Great Cayman, Cayman Banks, W. I.
- R. P. WHITFIELD, New York City.
Nidamental sack of *Lunatia heros*, and nidamental capsules of *Urosalpinx cinerea*, from Coney Island, L. I.

DEPARTMENT OF MARINE INVERTEBRATES.

- JAS. ANGUS, West Farms, N. Y. City.
A collection of dried crustaceans, comprising most of the forms found about New York Harbor. In all eighty-eight specimens.
- MRS. RICHARD P. DANA, N. Y.
A numerous assortment of corallines, sponges, gorgonias, millepores, corals, bryozoans, and crustaceans.
- HARRY EDWARDS (deceased), N. Y.
A collection of sponges, star-fishes, echinoids and annelids.
- CYRUS W. FIELD (deceased), N. Y.
A collection of twenty-three microscopic slides of soundings from the Atlantic Cable Expedition, and a vial of the mud from the same at a depth of six miles. Exact station not given.
- E. W. SMITH, N. Y.
A number of cray-fish collected at Maplewood, N. J.
- R. P. WHITFIELD, N. Y.
Specimens of *Sertularia argentea*, Ellis & Solander. Coney Island, L. I.

DEPARTMENT OF MAMMALS.

- TAPPAN ADNEY, New York City.
Beaver cuttings and Indian "skin stretchers," from New Brunswick.
- CHARLES F. BATCHELDER, Cambridge, Mass.
3 Western Ground Squirrels.
- BARNUM & BAILEY, Bridgeport, Conn.
2 Nylghaus.
- C. AUDLEY BULLER, M.D., Guadalajara, Mexico.
1 Spermophile (*Spermophilus annulatus*), from Colima, Mexico.
- J. L. COX, New York City.
1 Caribou.
- Mrs. RICHARD P. DANA, New York City.
2 Elephant teeth, several Walrus tusks, teeth of Sperm Whale, and antlers of Deer and Moose.
- DEPARTMENT OF PUBLIC PARKS, New York City. (Central Park Menagerie.)
32 Monkeys; 1 young Lion; 1 Puma; 2 Ocelots; 1 Black Leopard; 2 Jaguars; 4 Foxes; 1 Coyote; 1 Coati; 5 Raccoons; 1 Hyæna; 1 Civet Cat; 1 Mongoose; 5 Bears; 5 Sea Lions; 1 Elk fawn; 3 Deer; 1 Goat; 3 Sheep; 1 Nylghau; 1 Llama; 1 Cape Buffalo; 1 Squirrel; 1 Woodchuck; 1 Agouti; 4 Muskrats; 4 Opossums; 1 Phalanger. Total, 86 specimens, received in the flesh.
- AUSTIN CORBIN, New York City.
1 California Sea Lion.
- EDGAR A. MEARNs, M.D., U. S. A., Fort Snelling, Minn.
360 skins of small mammals, with their skulls, chiefly from Minnesota.
- Mrs. L. W. MINFORD, New York City.
1 Antelope head, 3 Wild Cat skins, from Africa.
- JENNESS RICHARDSON, New York City.
1 Wood Rat.
- WILLIAM M. RICHARDSON, New York City.
1 Red Squirrel.
- JOHN ROWLEY, JR., New York City.
1 skull of Mastiff; 1 skull of Bull Dog; 1 Raccoon; 2 Bats; 1 Shrew; 1 Field Mouse; 1 Gray Squirrel.
- GEORGE B. SENNETT, New York City.
30 mounted mammals, from Pennsylvania and Minnesota.
- S. P. SLATER, New York City.
1 Saint Bernard Dog.
- JOHN SLINGERLAND, New York City.
1 Manx Cat.
- H. II. SMITH, Brooklyn, N. Y.
1 Sloth (*Cyclothurus*), from southern Brazil.
- Miss ELIZABETH TAYLOR, Winnipeg, Manitoba.
1 skin of Lemming, from near mouth of the Mackenzie River.
- WILLIAM WALLACE, New York City.
1 Monkey; 1 Puma; 1 Bear; 1 Fruit Bat; received in the flesh.
- JOSÉ C. ZELEDON, San José, Costa Rica.
3 Bats, from Costa Rica.

DEPARTMENT OF BIRDS.

- ANASTACIO ALFARO, San José, Costa Rica.
1 skin of *Zeledonia coronata*.
- Mrs. E. S. AUCHINCLOSS, New York City.
9 mounted birds.
- W. C. BROWNELL, New York City.
5 specimens, from near New York City.
- Mrs. RICHARD P. DANA, New York City.
25 mounted birds; 80 eggs, and 25 nests.
- WILLIAM H. BEERS, New York City.
1 mounted Albatross.
- Mrs. N. BRANDON, New York City.
21 bird skins, from Central America.
- Mrs. BURNS, New York City.
Collection of nests and eggs.
- W. WARREN BROWN, New York City.
1 black Wood Thrush.
- S. H. CHUBB, New York City.
7 Chimney Swifts, with 4 nests and sets of eggs, for the Chimney Swift Group; 2 nests of Barn Swallow.
- W. A. CONKLIN, New York City.
1 Rosy-billed Duck.
- CHARLES B. CORY, Boston, Mass.
46 bird skins from the West Indies.
- C. V. CRAWFORD, Montclair, N. J.
1 Jacobin Pigeon.
- R. DEMPIER, New York City.
1 Parakeet; 12 Finches—cage birds; received in the flesh.
- DEPARTMENT OF PUBLIC PARKS, New York City. (Central Park Menagerie.)
6 Starlings; 2 Mocking Birds; 1 Hawk; 3 Black Swans; 1 White Swan; 5 Parakeets; 4 Macaws; 2 Parrots; 2 Cockatoos; 15 Owls; 1 Ostrich; 4 Pheasants; 1 Eagle; 1 Crow; 1 Flamingo; 2 Herons; 1 Crowned Crane; 1 Peacock; 1 Game Bantam; 5 Ducks; 2 Rails; 1 Purple Gallinule; 5 Grosbeaks; 2 Quails; 2 Sparrows; 1 Cuckoo; 2 Chinese Hill Tits. Total, 73 specimens, received in the flesh.
- B. H. DUTCHER, New York City.
3 Brown Creepers; 4 Swamp Sparrows.
- WILLIAM DUTCHER, New York City.
1 mounted Hybrid Duck (*Anas obscura* + *A. boschas*).
- D. G. ELLIOT, New York City.
1 Hybrid Duck (*Anas boschas* + *A. americana*)
- CYRUS W. FIELD, New York City.
45 mounted birds, mostly from South America.
- W. W. GRANGER, New York City.
26 small birds, from vicinity of New York.
- LEVERETT M. LOOMIS, Chester, S. C.
58 bird skins, from South Carolina, mostly Ducks and other water birds.

- C. B. ISHAM, New York City.
5 small birds, from vicinity of New York City.
- MRS. W. H. KERR, New York City.
1 Parakeet (*Brotogeris tovi*).
- MRS. GEORGE A. KNIGHT, New York City.
1 mounted Snowy Owl.
- L. KONE, New York City.
7 small birds.
- GEORGE N. LAWRENCE, New York City.
2 rare South American Pigeons.
- ROBERT H. LAWRENCE, Portland, Oregon.
65 bird skins from Oregon and Washington.
- L. McCORMACK, New York City.
1 *Vireo flavifrons*.
- GEORGE H. MACKAY, Nantucket, Mass.
1 skull of Shearwater.
- WILLIAM P. McCANN, Rear Admiral, U. S. N.
14 bird skins from Patagonia and Uruguay.
- EDGAR A. MEARNs, M.D., U. S. A., Fort Snelling, Minn.
615 bird skins, and a large collection of nests and eggs, mostly from Minnesota.
- AUSTIN F. PARKS, Troy, N. Y.
5 Grackles.
- JENNESS RICHARDSON, New York City.
1 Owl, 1 Chat, 1 Bunting, 3 Sparrows, 4 Warblers, 1 Paroquet.
- WM. M. RICHARDSON, New York City.
3 South American bird skins; 1 Bluebird; 1 Sparrow.
- JOHN ROWLEY, JR., New York City.
70 small birds, from near New York City.
- HENRY B. SARGENT, New York City.
Set of eggs of Mountain Chickadee (*Parus gambeli*).
- DR. P. L. SCLATER, Zoölogical Society, London, England.
6 Tasmanian birds, mostly types of published figures.
- EDWARD and LILLIAN SEE, New York City.
1 nest of Red-eyed Vireo.
- S. P. SLATER, New York City.
1 White Pouter Pigeon.
- E. W. SMITH, Orange, N. J.
36 small birds, mostly from northern New Jersey.
- D. JACKSON STEWARD, New York City.
1 Collared Parakeet.
- ERNEST E. THOMPSON, Toronto, Canada.
29 bird skins, chiefly from Manitoba.
- J. T. WHISTLER, San Bernardino, Cal.
Section of pine bark, containing acorns inserted by Woodpeckers.
- CHARLES C. WALKER, Troy, N. Y.
Nest and 2 eggs of Phœbe.

DEPARTMENT OF REPTILES AND FISHES.

- CHARLES L. BERNHEIMER, New York City.
Jaws of a large Shark; 1 Porcupine Fish; 1 Flying Fish; jaw of Sawfish.
- JOHN BRADLEY, New York City.
Specimens of the "Sea-horse" (*Hippocampus*).
- JAMES F. CANFIELD, Brooklyn, N. Y.
1 Copperhead, Palisades, Rockland Co., N. Y.
- MRS. RICHARD P. DANA, New York City.
Swordfish and other stuffed fishes, and various specimens of Turtles and Lizards, and large Snake in alcohol.
- DEPARTMENT OF PUBLIC PARKS, New York City (Central Park Menagerie).
4 Alligators; 2 Gila Monsters; 12 Snakes.
- DAVID DOWNEY, D.D., Nellore, India.
1 mounted Cobra.
- MRS. HARRY EDWARDS, New York City.
3 specimens of *Hippocampus*; 2 eggs of Ray.
- J. T. HARRIS, New York City.
1 Turtle.
- GEORGE N. LAWRENCE, New York City.
1 Porcupine Fish; 1 young Sawfish.
- GEORGE H. MACKAY, Nantucket, Mass.
2 Toads, Muskeget Isl., Mass.
- EDGAR A. MEARNS, M. D., U. S. A., Fort Snelling, Minn.
60 specimens of Reptiles and Fishes, from Minnesota.
- MRS. L. W. MINFORD, New York City.
3 large Snake skins, from Congo, Africa.
- MRS. J. G. MINTS, West Hartford, Conn.
1 Spotted Salamander.
- JASPER OWEN, New York City.
Tail of a large Shark, from Florida.
- WM. M. RICHARDSON, New York City.
6 Turtles, from Long Island.
- ARCHIBALD ROGERS, Hyde Park, N. Y.
4 large Copperhead Snakes, and 1 Milk Snake, from Hyde Park, N. Y.
- H. S. SPRAGUE, Centre Moriches, L. I.
1 Snake.

DEPARTMENT OF ENTOMOLOGY.

- MISS EMILY MORTON, Newburg, N. Y.
1 Hybrid between *Platysamia cecropia* and *P. columbia*.
2 Hybrids between *Platysamia cecropia* and *P. ceanothi*.
2 Hybrids between *Platysamia cecropia* and *P. gloveri*.
2 *Apatelodes torrefacta*.
2 *Calodasy leptinoides*.
- A. BOLTER, Chicago, Ill.
4 *Cleonus calandroides*, from Nantucket.
4 *Ephalus latimanus*, " "

ANASTASIO ALFARO, San José, Costa Rica.
A few insects from Costa Rica.

CARL LUMHOLTZ.
About 150 Beetles, from Sonora, Mexico.

JENNESS RICHARDSON, New York City.
About 250 insects from Florida.

A. S. FULLER, Ridgewood, N. J.
Eggs of Katydid.

CHARLES U. CLARK, Brooklyn, N. Y.
A number of beetles, from Massachusetts.

DEPARTMENT OF ARCHÆOLOGY AND ETHNOLOGY.

MORRIS K. JESUP.
7 alabaster, sculptured specimens, from Mexico.

LAURA A. C. MILLER, No. 80 West 87th Street, N. Y. City.
One coat made of the intestine of the Whale.

CYRUS W. FIELD.
One necklace of nuts and teeth, collected by him on the Andes,
between Quito and Bogota.

MRS. G. H. DUNHAM, No. 19 West 81st Street.
2 grooved stone axes.
1 grooved stone pick, all found in Hackensack, N. J.

CHARLES L. BERNHEIMER, No. 51 White Street, N. Y. City.
3 ornamented calabashes, from Martinique.
2 calabash cups, from Venezuela.
2 calabash bowls, ornamented, from Venezuela.

DR. ROLF. PIHLGREN, Grand Union Hotel, N. Y. City.
One stone mortar and one broken pestle from Lackawanna County,
Pa.

JENNESS RICHARDSON, Museum.
Skulls and skeletons from mounds in Micco, Florida.

CHARLES P. ROWLEY, Museum.
One grinder or metate rubber, found in a cliff house 75 feet up, in
Ruin Cañon, Utah, May 15th, 1892.

TAPPAN ADNEY.
Skin stretcher (3 pieces), Tobique River, N. B.
Bark of cedar, used by Indians for lacings, Tobique River, N. B.

MRS. L. W. MINFORD, Hotel Grenoble, 56th Street and 7th Avenue.
3 native caps.
Sample of native cloth.
Sample of native cloth, morning dress.
Sample of native rubber gum, all from the Congo region, Africa.

A. I. COTHEAL.
One Jade pendant, from the neighborhood of Realjo, Nicaragua, C. A.

CHARLES L. BERNHEIMER, N. Y. City.
A bag, belt, bracelet and necklace, made of the mimosa seed by the
Martinique Negresses.
3 red clay water pitchers, different forms, from Martinique.

GEORGE F. KUNZ.
4 gold and 2 silver ornaments, from mounds in Florida.

- E. S. PARKER, 22 West 87th Street.
One red stone hammer or club head, with groove, from Oklahoma,
Indian Territory.
- MRS. RICHARD P. DANA, No. 146 West 14th Street.
Tappa cloth dress.
One dance stick with eagle feathers and flannel.
1 braided band.
1 wood war club.
1 necklace (pinte).
2 stone hammers, grooved, Lake Superior.
1 Indian hatchet, Ashford Hill, Westchester Co., N. Y.
5 pottery vessels, Mississippi Valley.
2 pottery vessels, Nicaragua.
4 celts or chisels, probably Central America.
1 celt, Canada.
1 celt, unknown locality.
14 chipped implements, Mississippi Valley.
1 plummet, Mississippi Valley.
1 disc (pottery), Mississippi Valley.
1 stone ball, found in shell rock, Becroft Mountain, Columbia Co.,
N. Y.
1 bone bead, vide Schoolcraft.
1 large sculptured stone head (human), Stephens & Catherwood.
- MRS. DR. W. R. BIRDSALL, No. 144 East 74th Street.
5 large photographs of Cliff Dwellers, Cañon of the Mesa Verde,
New Mexico.
- J. BRADLEY JAMES, JR., Riverdale, New York.
An interesting local collection of Indian Relics.

EXCHANGES.

LIBRARY.

- H. H. & C. S. BRIMLY, Raleigh, N. C.
Journals. 26 odd numbers.
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Africa. 1842.
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 Bischoff, J. Sketch of the History of Van Dieman's Land. 1832.
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 Percivall, W. The Anatomy of the Horse. 1868.
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 Edinburgh Philosophical Society. 33 vols. 1819-1864.

GEOLOGICAL DEPARTMENT.

A. C. BATES, New York City.

A small collection of Western Hudson River fossils; about 130 specimens from Clermont Co., Oxford, Lebanon and Cincinnati, Ohio; eight specimens of coal fossils from Newcastle, Alabama, and one block of fresh-water shell casts (*Vivipara?*) from Green River, Wyoming.

DEPARTMENT OF MAMMALS.

- PROF. JOHN MACOUN, Canadian Geological Survey.
8 Squirrels.
- N. W. FAIR, Asheville, N. C.
6 small Mammals from North Carolina.
- COLLEGE OF PHYSICIANS AND SURGEONS, New York City.
1 Monkey.

DEPARTMENT OF BIRDS.

- PROF. JOHN MACOUN, Geol. Survey of Canada.
55 specimens, mostly from British Columbia.
- JENNESS RICHARDSON, New York City.
14 specimens from India.
- W. C. SOUTHWICK, Raritan, N. J.
7 specimens from New Jersey.
- GEORGE E. VERRILL, New Haven, Conn.
1 Gallinule (type of *Porphyrio corni* Allen), and two Petrels.

PURCHASES.

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 Edward's Library on Entomology. 463 volumes, and 1900 pamphlets.

MINERALOGICAL DEPARTMENT.

GEO. L. ENGLISH & CO., New York City.

One specimen of Rubellite (Tourmaline) in Lepidolitic Schist, San Diego Co., Cal.

DEPARTMENT OF MAMMALS.

THROUGH MUSEUM EXPEDITIONS.

- 115 specimens, from near Trinidad, Cuba, collected by Frank M. Chapman, Assistant Curator.
 13 specimens from Bravard Co., Florida, collected by Jenness Richardson, Chief of Department of Taxidermy.
 380 specimens from Colorado, Utah, and New Mexico, collected by Charles P. Rowley, of the "Illustrated American" Expedition.
 13 specimens from Sonora, Mexico, from the Lumholtz Expedition.

BY DIRECT PURCHASE.

1 Camel; 2 Monkeys; 1 Mexican Dog; 1 Jackal; 1 Tayra; received in the flesh.

DEPARTMENT OF BIRDS.

THROUGH MUSEUM EXPEDITIONS.

- 472 specimens, collected near Trinidad, Cuba, by Frank M. Chapman, Assistant Curator.
 216 bird skins, and a small collection of nests and eggs, from Sonora and Chihuahua, Mexico, from the Lumholtz Expedition.
 127 specimens, from Colorado, Utah, and New Mexico, collected by Charles P. Rowley, in connection with the "Illustrated American" Expedition.
 35 specimens from Bravard Co., Fla. (including the materials for the Little Blue Heron Group), collected by Jenness Richardson, Chief of the Department of Taxidermy.

BY DIRECT PURCHASE.

60 specimens from Venezuela; about 1000 specimens from southern Brazil.

DEPARTMENT OF REPTILES AND FISHES.

THROUGH MUSEUM EXPEDITIONS.

Collection of Snakes, Lizards and Toads, from Northern Sonora and Northern Chihuahua, from the Lumholtz Expedition.

2 Snakes, 15 Lizards, and 1 Toad, from Colorado, Utah and New Mexico, collected by Charles P. Rowley, of the "Illustrated American" Expedition.

Collection of Lizards and Tree Frogs, from Trinidad, Cuba, collected by Frank M. Chapman, Assistant Curator.

DEPARTMENT OF ENTOMOLOGY.

THE ENTOMOLOGICAL COLLECTION formed by the late Henry Edwards, consisting of about 250,000 specimens from all parts of the globe. This collection was purchased by friends of the deceased and the Museum.

DEPARTMENT OF ARCHÆOLOGY AND ETHNOLOGY.

GEORGE F. KUNZ, Hoboken, N. J.

Collection of Jadeite and Nephrite specimens, 494 pieces.

INCORPORATION.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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

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

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

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

ARTICLE III.

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

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

ARTICLE IV.

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

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

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

ARTICLE V.

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

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

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

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

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

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

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

ARTICLE VI.

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

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

ARTICLE VII.

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

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

ARTICLE VIII.

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

ARTICLE IX.

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

ARTICLE X.

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

ARTICLE XI.

A majority of the Trustees for the time being 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 one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

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

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

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

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

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

II.

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

III.

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

IV.

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

V.

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

VI.

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

VII.

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

VIII.

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

PATRONS.

By the Payment of One Thousand Dollars.

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 PHOENIX.*
 BENJAMIN H. FIELD.
 WILLIAM T. BLODGETT.*
 OLIVER HARRIMAN.
 ROBERT BONNER.
 JAMES B. COLGATE.
 ALEXANDER STUART.*
 WILLIAM A. HAINES.*
 BENJAMIN AYMAR.*
 RICHARD ARNOLD.*
 JOSEPH H. CHOATE.
 JONATHAN THORNE.*
 MISS PHEBE ANNA THORNE.
 D. O. MILLS.
 JOHN A. C. GRAY.
 HEBER R. BISHOP.
 CHAS. G. LANDON.
 WILLIAM E. DODGE.*
 PETER COOPER.*
 WILLIAM H. ASPINWALL.*

B. H. HUTTON.*
 J. TAYLOR JOHNSTON.
 D. N. BARNEY.*
 I. N. PHELPS.*
 JAMES STOKES.*
 D. WILLIS JAMES.
 EDWARD MATTHEWS.
 WILLIAM T. GARNER.*
 JAMES LENOX.*
 A. H. BARNEY.*
 COLEMAN T. ROBINSON.*
 BENJAMIN B. SHERMAN.*
 JAMES R. ELY.
 JONAS G. CLARK.
 JOHN ANDERSON.*
 JOHN JACOB ASTOR.*
 WILLIAM WALDORF ASTOR.
 CATHERINE L. SPENCER.*
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 JESSE SELIGMAN.
 THEO. ROOSEVELT.
 OSWALD OTTENDORFER.
 J. HAMPDEN ROBB.
 J. F. LAUBAT.
 H. J. JEWETT.
 WM. D. SLOANE.
 D. G. ELLIOT.
 LIEUT. G. T. EMMONS.
 C. P. HUNTINGTON.
 GEO. W. VANDERBILT.
 EDWARD D. ADAMS.
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 JOHN J. CROOKE.
 HENRY SELIGMAN.
 RICHARD T. WILSON.
 JOHN E. PARSONS.
 FRANCIS O. MATTHIESSEN.

* Deceased.

A. J. FORBES-LEITH,
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 HON. M. C. D. BORDEN.
 ARCHIBALD ROGERS.
 GEORGE C. COOPER.
 MRS. M. SCHUYLER ELLIOT.
 APPLETON STURGIS.
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WILLIAM C. WHITNEY.
 GEORGE G. HAVEN.
 JAMES BAKER SMITH.
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 HENRY VILLARD.
 Dr. W. M. PEPPER.

Honorary Patron,

DR. EDGAR A. MEARNES, U. S. A.

FELLOWS.

By the Payment of Five Hundred Dollars.

SAMUEL WILLETS.*
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 HOWARD POTTER.
 C. V. S. ROOSEVELT *
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Honorary Fellow,

JAMES THOMSON.

* Deceased.

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CHAS. M. DaCOSTA.*	JACOB HAYS.
HENRY J. DAVISON.*	Mrs. H. HERRMAN.

* Deceased.

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 JAMES M. LAWTON.
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 E. OELBERMANN.
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 A. O. OSBORN.
 Mrs. A. O. OSBORN.
 JOHN C. OSGOOD.
 HENRY PARISH.
 JOHN E. PARSONS.
 WILLIAM I. PEAKE.
 ALFRED PELL.
 Miss FRANCES PELL.
 GIFFORD PINCHOT.
 JAMES W. PINCHOT.
 HENRY B. PLANT.
 JOHN PONDIR.
 HENRY A. V. POST.
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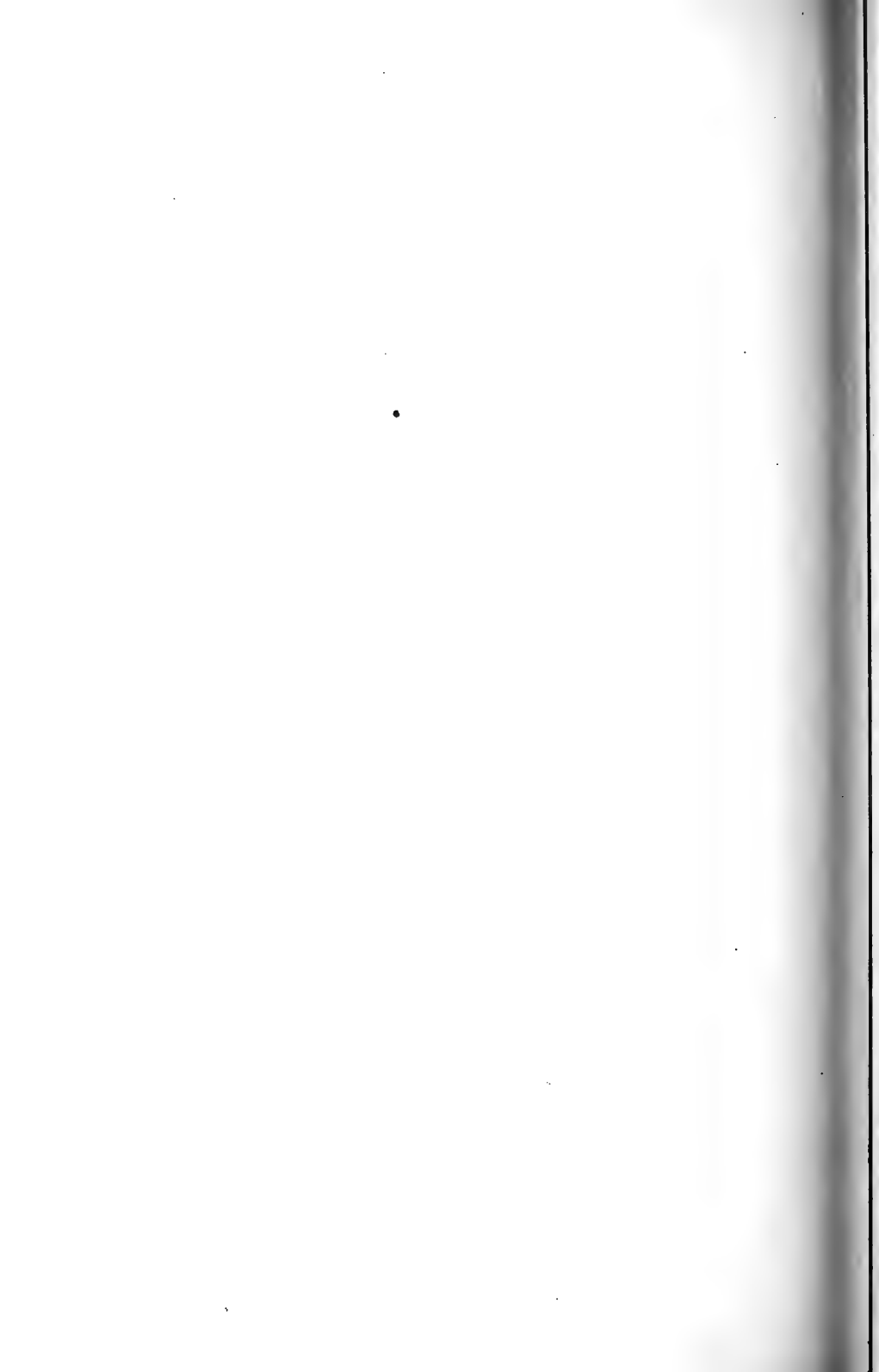
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THE
AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and 8th Avenue.)

ANNUAL REPORT OF THE PRESIDENT,
ACT OF INCORPORATION,
CONSTITUTION, BY-LAWS AND LIST OF MEMBERS
FOR THE YEAR 1893.



NEW YORK:
PRINTED FOR THE MUSEUM.

1894.

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TWENTY-FIFTH ANNUAL REPORT.

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

Your attention is invited to the following report of the operations of this Institution during the year just closed.

FINANCES.—The Treasurer's Report exhibits the following receipts and expenditures :

RECEIPTS.

From the City.....	\$65,000.00
State Department of Public Instruction.....	9,000.00
Income from Endowment Fund.	17,100.00
Annual Members' dues.....	6,700.00
Admission fees.....	663.75
W. H. Osborn, subscription.....	1,500.00
From other sources.....	758.65
	\$100,722.40

EXPENDITURES.

Deficiency, January 1st, 1893.....	\$27,306.96
Maintenance.....	81,297.86
Payments for Collections, special purchases, and publication of the Bulletin and Memoirs.....	22,744.82
	\$131,349.64

Total Expenditures.....	\$131,349.64
Total Receipts.....	100,722.40
"Dr." balance.....	\$30,627.24

The increase of the collections rendered necessary the construction of new cases, which were made by the Trustees at their own cost, to which is largely due the "Dr." balance.

The estimated receipts for the year fell short about \$3500, and it may also be noted in this connection that the cost of properly maintaining the Museum was in excess of the amount allowed by the City.

NUMBER OF VISITORS.—There has been no diminution of the attendance on Sunday ; on the contrary, the interest appears to have increased. The total number of visitors during the year was 612,528. On some of the prominent holidays the attendance has exceeded ten thousand persons per day.

THE TERMS OF CHAPTER 423 OF THE LAWS OF 1892 having been modified by the Legislature of 1893, in conformity with the wishes of the Trustees, the Board of Estimate and Apportionment appropriated for a new wing the sum of four hundred thousand dollars (\$400,000) in accordance with the provisions of the Act.

The plans prepared by the architects appointed by the Trustees (Messrs. J. C. Cady & Co.) were submitted to, and approved by, the city authorities. The addition, or, as it may be properly termed, the East Wing, will present a frontage of one hundred and fifty-seven feet on Seventy-seventh Street, with a depth of sixty-seven feet, providing five fully-lighted halls for exhibition purposes.

In connection with this subject, it is a pleasure to refer to the prompt and liberal action of the municipal administration in coöperating with the Trustees, to provide the Museum with enlarged facilities for the display of the specimens. This recognition of the work of the Trustees furnishes encouragement in their efforts to make this Institution one of the most important of its kind in the country.

It is also evident at this time that a further appropriation will be required to equip and complete the new wing, and to provide for the alteration and full equipment of the old building made necessary by the erection of the East Wing. This work is receiving our most earnest attention.

The Board of Estimate and Apportionment placed at the disposal of the Trustees the sum of \$65,000 for the maintenance of the Museum during 1893. This sum, however, was inadequate for its purpose, the Trustees having to provide for a considerable deficiency.

CHARGE FOR ADMISSION.—For the first time in the history of the Museum the system of charging visitors a fee for admission

on the reserved days was agreed to by the authorities. The plan was put in operation on the first day of last August, but the receipts for the last five months of the year are not a fair criterion of the result to be expected in the future.

LUMHOLTZ EXPEDITION.—The investigations carried on by Dr. Carl Lumholtz in Northern Mexico were continued during the year. The judgment of the highest authorities in this country warrant the statement that the results thus far achieved are of great scientific interest and value.

EMMONS ALASKAN COLLECTION. — The second collection gathered by Lieut. George T. Emmons, U. S. Navy, and which was incorporated in the Federal Government's Exhibit at Chicago, has been brought to the Museum for temporary display and inspection by our friends, and it is hoped that the Museum may acquire it. It contains a much wider range of objects than the first collection purchased for the Museum in 1888, and numbers 2900 pieces.

With the Emmons Collections from Alaska, the Bishop Collection from British Columbia, the archæological material bought of James Terry, and the Collections made by Dr. Lumholtz in Mexico and by Dr. Bandelier in Peru, the Museum contains material very fully representing the ethnology and archæology of the Pacific Coast. The territory yet uncovered will soon, I hope, be visited by explorers in the interest of the Museum.

LECTURES.—The joint agreement with Columbia College has been continued, whereby several courses of lectures were delivered, principally on subjects relating to the collections. Large audiences have been present on each occasion, and in many instances even standing room has not been available. Although these lectures were a radical innovation, no question can be raised as to their great value. They have come to be a most valuable auxiliary in bringing the collections before a larger class of the people, and have provided the means of broadening the educational influence of the Museum. Much of the value of the collections depends upon the wide use made of the material, and by

this means it is sought to make them instructive and interesting to our citizens.

The usual courses of twenty lectures to the teachers of the Public Schools have been delivered by Professor Bickmore during the spring and fall, under the joint contract between this Institution and the State Superintendent of Public Instruction. The Act continuing this work passed the last Legislature and received the approval of Governor Flower. In addition to the free lectures to the public delivered by Professor Bickmore in the afternoon of New Year's, Washington's Birthday, Thanksgiving and Christmas, he has also given the following four lectures to members of the Museum during November and December :

World's Fairs, from London, 1851, to Paris, 1889.

The Columbian Exposition of 1893—Its Organization and Administration.

Department of Mines and Mining—Iron, Copper and Salt.

Department of Mines and Mining—Silver, Gold and Diamonds.

Reference must also be made to the system inaugurated this year, of giving a series of talks or informal lectures in the library Saturday afternoons. These have been delivered by the assistant curators of the several departments, and were illustrated by specimens from the collections. The plan at once met with pronounced and popular favor, and has demonstrated the need of a small lecture hall for this purpose.

MEETINGS OF SCIENTIFIC SOCIETIES.—The New York Microscopical Society again held its Annual Exhibition at the Museum, and the attendance largely exceeded that of the previous year.

Other scientific bodies hold their regular meetings in the building, and its use by such societies is encouraged.

MEETINGS OF THE FACULTY.—The adoption of a plan to ensure a uniform system of labeling has long been desired, and to this end the President has called the Faculty together on several occasions. The discussions have resulted in the adoption of a popular and instructive series of labels, and a better devised system for the exhibition of the material.

Reference is made in another part of this report to the decease of the late Mr. Benjamin H. Field and Mr. Charles G. Landon. Through the death of these gentlemen the Trustees have lost two valued associates, whose services were always directed in the interest of the Museum.

FORESTRY COLLECTION.—A large section of Tideland Spruce and one of Douglas Fir have been added to this department through the kindness of Hon. W. F. Matlock, Pendleton, Oregon.

Forty small sections of plank, and the same number of specimens showing bark, were also donated by the Japanese Commissioners.

Both of these donations were a part of the Forestry exhibit of the late Columbian Exposition.

GEOLOGICAL DEPARTMENT.—The usual work of labeling and cataloguing has been carried forward in the Palæontological Collections. Many important additions were made to the Mineral Department. The large examples of Malachites, Azurites and Stalactites, the gift of the Copper Queen Consolidated Mining Company, are the most important and conspicuous objects in the department.

Beautiful sections of Agatized Wood from Arizona were donated by the Hon. Seth Low, LL.D., President of Columbia College, and by N. W. Bell, Esq.

A fine crystal of Beryl, and a boulder containing Chrysolite, were presented by Dr. O. P. Hubbard.

Mr. J. Stanton, President of the Central Mining Company, Lake Superior, donated a large block of crystallized native copper.

A group of rough moss Agates and Calcedony from Cuba, W. I., were given by Señor Lopez De Lara.

A very rich specimen of crystallized silver from the Bland Mine, Richmond Basin, Arizona, has been added to this collection. This, and other showy material, was acquired by purchase.

CONCHOLOGICAL COLLECTION.—This collection has been enlarged by the addition of material heretofore not displayed.

Much still remains packed in the study rooms for want of exhibition space. The major portion of the D. Jackson Steward Collection has been determined, labeled and arranged in the cases.

DEPARTMENT OF MAMMALS, BIRDS, REPTILES AND FISHES.—The accessions received during the year have been derived mainly from Museum expeditions, a few mammals and birds being added by purchase, while the most noteworthy gift is a small collection of birds and reptiles from the late Charles Slover Allen, M.D., of this city. Many valuable specimens have been received by exchange. A large Alligator Gar was presented by Lieut. J. G. Ord, U. S. A.

As usual, many valuable specimens have been received in the flesh from the Central Park Menagerie, through the courtesy of the Commissioners of the Department of Public Parks. A number of mounted skeletons and several hundred skulls were added to the resources of this department during the year.

DEPARTMENT OF TAXIDERMY.—In addition to the current work of this department the whole collection of mounted birds has been revised and put in order, repairs being made where found necessary. The Woodchuck Group has been repaired and placed on display, and the preparation of the Moose Group—a companion piece to the Bison Group—is well advanced.

DEPARTMENT OF ENTOMOLOGY.—More than three thousand specimens were added to this collection through expeditions to localities in the neighborhood of this city and in Connecticut.

The Butterflies and Moths of the Henry Edwards Collection were transferred to cases constructed for their reception, and these, as also similar material from the Elliot and Angus Collections, are now easily accessible, and frequent use is being made of them by students and specialists. Satisfactory progress has been made in the work of cataloging and numbering the specimens.

DEPARTMENT OF MAMMALIAN PALÆONTOLOGY.—I desire to congratulate the Trustees on the great success of this department. Although only in the third year of its establishment, the

work thus far accomplished is unequalled by that of any other department for a similar period. It is believed that the collections already equal in importance those secured by other Institutions through many years of effort. The plan adopted in the display of this material is unique, many new features having been introduced. The intention to form a great collection to represent the evolution of the mammals of North America is being successfully carried out.

Thus far the expeditions to the Rocky Mountain Region have secured one thousand four hundred and eighty-eight specimens. During the past season the explorations were continued under Dr. J. L. Wortman, and the material collected gives very gratifying results. The latter part of the trip was spent in the Bridger Basin, Wyoming, and here the greatest success was met with, fifteen perfect skulls having been obtained. The expedition also secured some of the remains of the monkeys, horses, tapirs, primitive rhinoceroses and rodents of this period, many of which were in an unusually perfect state of preservation. The most notable specimen in the collection is the complete skeleton of a large Carnivore of the size of a tiger, which has been mounted upon a stone panel, and is the most perfect specimen of the kind ever found. These fossils are being placed temporarily in two cases in the hallway of the Geological floor pending the construction of the East Wing.

A new system of descriptive pictorial labels has been designed for the collections in this department. Each large label will show a restoration of the animal, and smaller labels give figures of the skeleton showing in black the portion displayed. To supplement these pictorial labels, a series of ideal scenes of the geological periods represented have been prepared, showing landscapes and groups of animals characteristic of each.

The services of Professor Henry F. Osborn as Curator of this department are gratuitous, the department being further assisted by an annual contribution from W. H. Osborn, Esq.

DEPARTMENT OF ARCHÆOLOGY AND ETHNOLOGY. — Much time was consumed in the work of revising and comparing the original catalogues with the later ones prepared for the depart-

ment, causing a delay in the numbering, labeling and cataloguing of other material.

The collection of Jadeites and Nephrites, purchased of George F. Kunz, have been numbered and displayed in connection with other material of this nature, owned by the Museum.

Plans for additional desk cases have been prepared for this department, such cases being urgently needed.

LIBRARY.—The accessions to the library have not been equal to those of the preceding year, although the increase has nearly filled the shelves. How to provide additional space for the material will be a question to be considered during the coming year. In view of the average number of yearly accessions it is evident that the present accommodations will soon become insufficient. The total number of volumes now exceeds twenty-eight thousand, and there is a large collection of maps. Of the above number one thousand five hundred and seventy-seven volumes were added this year, largely through purchase and exchange. The increase in the number of teachers, students and scientists who make use of the library for the purpose of research is very noticeable.

Mr. Samuel P. Avery donated eighty-five volumes of rare and useful works on Botany, Conchology and Zoölogy. Other valuable gifts were received from the Hon. Levi P. Morton, Hon. Roswell P. Flower, Mr. Morris K. Jesup, Albert, Prince of Monaco, and Hon. N. S. Reimer, U. S. Minister to Cuba. Mrs. C. Sniffen presented three original water-color drawings of the Smithsonian Institution, and three rare engravings.

PUBLICATIONS.—During the year another complete volume of the Museum Bulletin (Vol. V) has been published, and Part I of the quarto series of Memoirs has appeared. The Bulletin consists of twenty-one papers prepared by the curators, making about three hundred and sixty pages, with eight plates and seventeen cuts in the text. The Department of Mammals and Birds is represented by thirteen papers; the Department of Mammalian Palæontology by five, and the Department of Entomology by three. The Geological Department is represented

by a paper of thirty-seven quarto pages, and three plates published in the Memoirs.

ENDOWMENT FUND.—The importance of a much larger Endowment Fund has frequently been brought to your notice in former reports. Only the interest of the present fund is available for the purchase of collections, and with the rapid growth of the Institution our usefulness may be seriously retarded by the lack of means to acquire new and important material. There are occasions when the inability to purchase a collection may work great injury. Our citizens have but little conception of the rapidity with which the Museum has grown during the past few years, and if this growth is to continue we need to be placed in a position to take advantage of favorable opportunities. An addition of five hundred thousand dollars to our Endowment Fund would yield an increase of income sufficient to maintain the present progress of the Museum for many years. The Institution has been fortunate in the aid thus far received from its friends, but I may be pardoned for repeating that the income devoted to the enlargement of the collections has not been nearly sufficient for that purpose. The advancement has been most gratifying even under unfavorable conditions, but this fact only serves to emphasize the need of greater means.

It is with pleasure that I refer to the zealous assistance afforded me by my associate Trustees in administering the affairs of the Museum. They have willingly given every aid that attention and money could render, and to them the Institution is largely indebted for its prosperity.

In closing, it is but just to note the faithful service rendered by the curators and heads of departments, and by all the employees of the Museum, for which I desire to express my cordial appreciation.

MORRIS K. JESUP,
President.

Dr.

THE AMERICAN MUSEUM OF NATURAL HISTORY

To Balance January 1st, 1893..... \$27,306 96

Endowment :

EXPENDITURES.

To Bulletin Account.....	\$2,395 39	
Mineralogical Account.....	254 00	
Entomological Account.....	32 35	
Reptiles and Fishes Account.....	15 43	
Conchological Account.....	50 00	
Skeletons Account.....	752 95	
Guides Account.....	44 50	
Annual Report Account.....	438 50	
Appleton Sturgis Collection.....	4,274 38	
Spang Collection.....	1,639 59	
Mammal Groups Account.....	284 87	
Ethnological Account.....	71 80	
Geological Account.....	1 60	
Library Account.....	881 64	
Bird Groups Account.....	11 65	
Mammalogical Account.....	830 19	
Edwards Entomological Collection.....	600 00	
Terry Collection.....	4,811 76	
Lumholtz Expedition.....	450 00	
Ornithological Account.....	143 47	
Mammalian Paleontology Account.....	4,160 75	
Kunz Collection.....	600 00	22,744 82

Maintenance :

To Traveling Expense Account.....	\$455 76	
Coal Account.....	5,076 35	
Postage Account.....	306 53	
Cases Account.....	106 45	
Fixtures and Furniture Account.....	1,474 82	
Repairs Account.....	3,719 01	
Expressage Account.....	317 67	
Stationery Account.....	473 77	
Expense Account.....	3,298 53	
Labor Account.....	23,430 24	
Salary Account.....	29,069 23	
Lecture Department Account.....	7,206 76	
Supplies Account.....	3,120 33	
Printing Account.....	64 00	
Labels Account.....	1,126 11	
Interest on "Dr." Balances.....	2,052 30	81,297 86

\$131,349 64

Balance January 1, 1894..... \$30,627 24

Examined { THEODORE A. HAVEMEYER, } *Auditing*
and approved, { GEORGE G. HAVEN, } *Committee.*

RECEIPTS.

Endowment :

Interest on Invested Funds.	\$17,100 00	
Sale of Guides.....	160 65	
Collecting Permits....	48 00	
W. H. Osborn, Subscription	1,500 00	
Lumholtz Expedition.....	450 00	
Life Members Account, Subscription of W. B. Isham	100 00	
Dues from Annual Members.....	6,700 00	
Admission Fees Account.....	663 75	\$26,722 40

Maintenance :

Department of Public Parks.....	\$65,000 00	
State Superintendent of Public Instruction	9,000 00	74,000 00
Balance January 1, 1894		30,627 24

\$131,349 64

[E. & O. E.] NEW YORK, *January 2, 1894.*

CHARLES LANIER, *Treasurer.*

FORM OF BEQUEST.

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

LIST OF ACCESSIONS, 1893.

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GEOLOGICAL DEPARTMENT.

W. E. BOOREAM, Brooklyn, N. Y.

- 6 Echinoderms, from the Miocene, White Limestones of Black River Bay, Jamaica, W. I.

DR. H. CARUTHERS, St. Augustine, Fla., through A. E. Douglass of New York.

- 1 Specimen of tooth of *Mastodon obscurus* Leidy. Near Beaufort, S. C.

R. H. CONNOR, New York.

- A fragment of rock from quarry near Oxford, N. Y., bearing *Lepidodendron Chemungensis*, ?, showing the scale leaves attached along the margin.

G. H. FOUNTAIN, New York.

- 22 Sand-worn Stones, from Plainfield, N. J., between New Market and Bound Brook, Middlesex Co., N. J.

W. SETON, New York.

- 3 Specimens of *Gryphaea columba*, Cretaceous, near Tours, France.
 4 Casts of Cardium, 1 Solarium and 3 Sponges.

I. B. SNIFFIN, New York.

- 1 Basaltic boulder of remarkably symmetrical form, from the Bloomingdale Asylum Grounds, New York.

- D. JACKSON STEWARD, New York.
A block of Ripple Marked Sandstone, from the Hudson River (?) sandstones. Obtained at Goshen, Orange Co., N. Y.
- J. UNDERHILL, New York.
7 Nodular fragments of a concretionary conglomerate. Drift of Long Island, near Brooklyn, N. Y.
- UNION THEOLOGICAL SEMINARY, New York.
Geological and Palæontological specimens from the Niagara, Clinton and Medina Groups; in all 50 specimens.
- PROF. A. G. WETHERBY, Magnetic City, N. C.
2 Crinoids, 1 *Rhodocrinus* n. sp. ? Trenton Limestone, Knox Co., Tenn.; and 1 *Zaacrinus floralis* Shum. Chester Limestone, Pulaski Co., Ky.
- R. P. WHITFIELD, New York.
83 Cretaceous Lower Green Sand Marl fossils, from Atlantic Highlands, N. J.
54 Fossils from the Upper Waverly, from Sciotoville, Ohio.
8 Blocks of *Discina pleurites* Meek., from Newark, Ohio.
9 Corals and 5 shells, from the Maxville limestone at Rushville, Ohio; two of these being figured specimens.
- The following casts of fossils, all of type or rare specimens:
- | | |
|-----|-------------------------|
| 197 | casts of Crinoides. |
| 73 | " " Brachiopods. |
| 27 | " " Lamellibranchiates. |
| 19 | " " Gasteropods. |
| 8 | " " Cephalopods. |
| 3 | " " Pteropods. |
| 8 | " " Trilobites. |
| 2 | " " Star Fishes. |
- A. C. ZABRISKIE, New York.
A partial set of Dr. Green's casts of Trilobites.

MINERALOGICAL DEPARTMENT.

- H. P. ATWOOD, New Milford, Conn.
1 Specimen of Garnet bearing schist, from Roxbury Falls, Litchfield Co., Conn.
1 Specimen of massive Quartz, from New Preston, Litchfield Co., Conn.
- NELSON W. BELL, New York.
A section of Agatized wood, from Chalcedony Park, Apache Co., Ariz.
- L. CAHN, New York.
3 Crystals of Zircon, from St. Peter's Dome, El Paso Co., Col.
1 Moss Agate, cut and polished, from Colorado.
- REV. A. M. CLARK, New York.
2 Specimens of Ruby Silver (Proustite), from Potosi, S. A.
- NICASIO L. DE LARA, Cuba, W. I.
A collection of Jasper, Chalcedonies, Semi-opals, etc. Beautifully marked by Dendritic crystallization, from the Province of Puerto Principe, Cuba.
- A. P. MINEAR, New York.
Limonic Stalactite, from the Iron Mountain Mine, Shasta Co., Col.

- M. A. FULLER, Jacksonville, Fla.
 2 Specimens of Quartz, with bubble inclusions (large), from Magnet Cove, Hot Springs, Ark.
- DR. O. P. HUBBARD, New York.
 Large Chrysolitic boulder of Basalt from Thetford, Vt.
 Specimen of large Beryl section, from Grafton, N. H.
- R. L. JACK, Brisbane, Queensland, Australia.
 1 Specimen of Siliceous Sinter (contains gold), from Freehold Tunnel, Mt. Morgan Mine, Queensland, Australia.
- G. F. KUNZ, New York.
 A specimen of Tabasheer, bought at the Calantha Bazaar of 1889, which may be the "snake stone" of Tavernier.
 3 Photographic views of the Platinum district, Martiam River, Demidoff Estate, Nizhni Tagilsk, Ural Mts., European Russia.
 3 Samples of earth and concentrates, and 1 sample of Platinum taken from the same.
- H. F. KOCH & CO., Aspen, Col.
 Specimens of Silver, containing native silver and Argentite, from the "Della S." Mine, Aspen, Col.
- D. MAGUIRE, Chief of the Mining Department of the World's Fair Columbian Exhibit, for the State of Utah.
 2 Crystals of White Topaz, from Millard Co., Utah.
 A small block of Kaolin, from the Bullion and Beck Mines, Utah.
 A slab of Gilsonite, from near Fort Duchesne, Uintah, Co., Utah.
- DR. J. S. McLAURY.
 1 Specimen of Gypsum, from Onondago Co., N. Y.
 1 Specimen of Travertine, from Cascade, Fall River Co., S. W. Dakota.
- WM. NIVEN, New York.
 1 Rose Garnet Crystal, from Xolostoc, Mexico.
 A slab of Rose Garnet, from Xolostoc, Mexico.
- N. B. POWTER, New York.
 Boulder of Phosphate rock, from Upper Florida.
- T. SANDERS, New York.
 Specimen of massive Garnet, from Town of Chester, Warren Co., N. Y.
 Cocolite, Quartz, Chloritic pseudomorphs.
- STERLING EMERY WHEEL CO., New York. Through L. BEST.
 4 Emery wheels ; 3 of Chester Corundum and 1 of Georgia and Chester Corundum.
 1 Specimen of Naxos or Greek Emery.
 1 " " " Ruby Corundum, from Clay Co., N. C.
 1 " " " " " Macon Co., N. C.
 2 Whetstones ; 1 of Chester Corundum and 1 of Georgia and Chester Corundum.
 1 Large specimen of Corundum, from Rabun Co., Georgia.
 1 " " " " " Chester, Mass.
- D. JACKSON STEWARD, New York.
 A boulder of Quartzite, from the Town of Goshen, Orange Co., N. Y.
- S. SMITH, Staten Island, N. Y.
 A fine example of Corundum, from Naxos, Greece.
- C. H. SNOW, New York.
 7 Specimens of Native Copper, pseudomorph, after Azurite, Grant Co., N. M.

- J. STANTON, New York.
A mass of native Copper, from Central Mine, Keweenaw Co., Mich.
- UNION THEOLOGICAL SEMINARY, New York.
Specimens of Minerals, including alum, analcite, aragonite, dolomite, asbestos, actinolite, hornblende, calcite, limonite and quartz. In all 38 specimens.
- WORLD'S FAIR COMMISSIONERS of Arizona, through Mr. T. R. Sorin, Arizona.
A very valuable collection of Copper Ore and Aragonite specimens illustrating, in part, the mineral wealth of Arizona. (Detail of this gift will be given in the next Annual Report.)
- WORLD'S FAIR EXHIBIT, Copper Queen Consolidated Mines, Bisbee, Arizona. Through Wm. E. Dodge and Prof. James Douglas.
Obelisk of mingled Malachite and Azurite. (Detail of this gift will be given in the next Annual Report.)
- WORLD'S FAIR COMMISSIONERS of Michigan.
Iron and copper ores, illustrating the mineral wealth of this State. (Detail of this gift will be given in the next Annual Report.)
- WORLD'S FAIR COMMISSIONERS of the State of Washington.
Economic specimens of Coal and Iron. (Detail of this gift will be given in the next Annual Report.)
- WORLD'S FAIR COMMISSIONERS of Arizona, through Mr. T. R. Sorin, Arizona.
2 Sandstone Columns.

CONCHOLOGICAL DEPARTMENT.

- G. P. BAKER, New York.
2 Snail Shells, from Jamaica, W. I.
- R. C. BARNARD, New York.
1 Specimen of Chiton, from California.
- I. B. SNIFFEN, New York.
About 40 Marine Shells.
- R. P. WHITFIELD, New York.
4 *Rhynchonella psittacea*. North Atlantic Coast.
13 Specimens of Brachiopods, *Terebratella septentrionalis*.

DEPARTMENT OF MARINE INVERTEBRATES

- DR. C. S. ALLEN.
1 Cray-fish and 1 Crab (fiddler), from Suwanee River, Fla.
1 Octopus, 1 Hippus, 1 young Limulus and 1 small Sea Anemone or Tunicate, from the Indian River, Fla.
- A. & S. BLOCH, New York.
1 Lobster, with a double right hand claw.
- W. GRANGER, New York.
1 Specimen *Platyonichus ocellatus*, from South Beach, S. I.
1 " " *Platycarcinus irroratus*, " " " " " "
- ORNITHOLOGICAL DEPARTMENT.
13 Echinoderms, 8 Star-fish, 2 Corals and 1 Sponge. Donor unknown.
- R. P. WHITFIELD, New York.
13 Specimens of Star-fishes in alcohol.

DEPARTMENT OF MAMMALS.

- CHARLES SLOVER ALLEN, M.D., New York City.
9 skins, 9 specimens in alcohol, from Florida.
- H. P. ATTWATER, Rockport, Texas.
2 skins of *Sitomys mearnsi*, 3 skulls of *Lepus*, 1 skull of *Spilogale indianola*.
- MESSRS. BARNUM & BAILEY, Bridgeport, Conn.
1 Mandrill, 1 Chacma Baboon.
- WILLIAM BEUTENMÜLLER, New York City.
1 Shrew.
- C. L. BROWNELL, New York City.
1 Meadow Mouse, 1 House Mouse.
- MRS. AGNES BYRNE, New York City.
1 mounted Duck-billed Platypus.
- ALBERT B. CARR, Island of Trinidad.
3 House Mice.
- HON. JOHN COSTIGAN, Ottawa, Canada.
1 skeleton of Moose, 1 skeleton of Fisher.
- DEPARTMENT OF PUBLIC PARKS, New York City. (Central Park Menagerie.)
20 Monkeys; 1 Lion (whelp); 1 Leopard; 3 Panthers (one young); 3 Ocelots; 1 Bay Lynx; 3 Bears; 1 Gray Fox; 2 Red Foxes; 2 Gray Wolves; 1 Jackal; 1 Raccoon; 1 Mexican Coati; 1 Civet Cat; 5 Opossums; 1 Elk; 9 Deer; 1 Zebu Calf; 1 Nylghau (young); 1 Angora Goat; 2 Camels (one young); 1 young Hippopotamus; 1 Bennett's Wallaby. Total, 63 specimens, received in the flesh.
- WILLIAM DUTCHER, New York City.
3 Red Bats.
- JOHN FITZE, New York City.
1 Green Monkey.
- A. J. C. FOYE, New York City.
1 Weasel.
- WALTER W. GRANGER, New York City.
9 Gray Squirrels; 4 Red Squirrels; 3 Chipmunks; 8 Varying Hares; 1 Skull of Hyæna; 2 Woodchucks; 3 Skunks; 1 Weasel; 6 Black Rats; 38 Field Mice; 7 Shrews.
- J. H. HEADY, Elmsford, N. Y.
17 Bats.
- PHILIP HOLMES, New York City.
2 Black Rats.
- MRS. HURD, New York City.
1 Albino Gray Squirrel.
- C. W. KNIGHT, New York City.
1 Flying Squirrel.
- J. J. MCKENNA, New York City.
1 Brown Bat.
- EDGAR A. MEARNS, M. D., U. S. A.
1 *Sciurus niger limitis*; 1 *Cynomys ludovicianus*.

- GERRIT S. MILLER, JR., Peterboro', N. Y.
Type of *Sitomys rowleyi pinalis* Miller.
- Mrs. H. O. PETERS, New York City.
1 Gray Squirrel.
- WM. M. RICHARDSON, New York City.
1 Woodchuck.
- R. S. ROWBOTTOM, Princetown, Trinidad.
1 Skull of Trinidad Deer.
- CHARLES P. ROWLEY, Hastings, N. Y.
4 Weasels ; 14 small Mammals.
- JOHN ROWLEY, JR., New York City.
3 Shrews ; 1 Bat ; 3 Muskrats ; 1 Mink ; 1 Wood Hare ; 5 Mice ; 6 Squirrels.
- WILLIAM W. SCHUYLER, Cobblekill, N. Y.
1 Horse.
- GEORGE B. SENNETT, Erie, Pa.
1 Black Squirrel ; 1 Varying Hare.
- E. B. SOUTHWICK, New York City.
17 Moles.
- Miss LUISE STRUPP, New York City.
1 mounted European Fox.
- AUGUSTUS TRAVIS, Elmsford, N. Y.
5 Young Muskrats.
- C. TRAVIS, Elmsford, N. Y.
1 Red Fox.
- I. N. TRAVIS, JR., Orange, N. J.
1 Red Squirrel.
- F. W. URICH and R. R. MOLE, Port-of-Spain, Trinidad.
4 specimens of *Loncheres*.
- J. VAN WAGMAN, JR., Lawyersville, N. Y.
1 Cow.
- WILLIAM WALLACE, New York City.
1 Raccoon.
- DR. B. H. WARREN, Chester, Pa.
1 Fox Squirrel, from Pennsylvania.
- DR. A. F. WETHERBY, Magnetic City, N. C.
2 skins of *Spilogale ringens*.

DEPARTMENT OF BIRDS.

- CHARLES SLOVER ALLEN, M.D., New York City.
92 bird skins and about 1000 eggs, mostly from Florida.
- E. T. ADNEY, New York City.
1 nest of Chimney Swift.
- H. P. ATTWATER, Rockport, Texas.
2 skins (adult and young) of *Tympanuchus attwateri*.
- Miss EMILY BROWN, New York City.
1 egg of Ostrich, 1 egg of Buzzard.
- C. L. BROWNELL, New York City.
1 Chickadee, 1 Yellow-bellied Woodpecker, 1 Indigo Bunting.

DEPARTMENT OF PUBLIC PARKS, New York City. (Central Park Menagerie.)

- 1 Parrakeet; 4 Parrots; 2 Cockatoos; 1 Blue-and-yellow Macaw; 1 Toucan; 2 Robins; 1 Cardinal; 1 Pigeon; 2 Quails; 1 Ptarmigan; 1 Peacock; 3 Golden Pheasants; 3 Owls; 4 Hawks; 9 Eagles; 1 Crane; 1 Coot; 1 Scarlet Ibis; 1 Bittern; 1 Woodcock; 3 Ducks; 2 Chinese Geese; 1 Canada Goose; 21 White Swans; 1 Black Swan; 1 Curassow. Total, 70 specimens, received in the flesh.
- WILLIAM DUTCHER, New York City.
1 skeleton of Black-throated Loon.
- LYMAN S. FOSTER, New York City.
13 small birds.
- WALTER W. GRANGER, New York City.
6 Night Herons; 2 Bitterns; 1 Kingfisher; 2 Titlarks; 2 Pine Warblers; 1 Crossbill; 4 Woodpeckers; 2 Flycatchers; 1 Ruffed Grouse; 1 Grebe; 1 Duck; 1 Hawk.
- HENRY HALES, Ridgewood, N. J.
1 skull of Macaw, from Indian graves in New Mexico.
- H. R. HASKINS, New York City.
1 Kingfisher.
- LAWRENCE HOLDEN, Leicester, Mass.
1 Vireo's nest.
- C. B. ISHAM, New York City.
1 Tennessee Warbler.
- JOHN H. W. KILLEEN, New York City.
1 egg and 1 bill of Albatross.
- MESSRS. KNAPP AND VAN NOSTRAND, New York City.
7 Tinamous.
- MRS. LAVELLE, New York City.
1 Green Parrot.
- GEORGE N. LAWRENCE, New York City.
1 Tinamou.
- ROBERT H. LAWRENCE, Duarte, Cal.
9 bird skins, from Oregon and Washington.
- LEVERETT M. LOOMIS, Tryon, N. C.
3 bird skins, from Chester, S. C.
- J. J. McDONALD, New York City.
1 Parrot.
- W. OGDEN, New York City.
1 Green Parrot.
- F. W. PALMER, New London, Conn.
1 Dovekie.
- REV. R. B. POST, Hoboken, N. J.
2 Bonaparte Gulls; 1 Guillemot.
- GEORGE H. RAGSDALE, Gainesville, Texas.
1 Cardinal.
- CHARLES P. ROWLEY, Hastings, N. Y.
13 small birds; 4 young Woodcock.
- JOHN ROWLEY, JR., New York City.
34 small birds; 1 Ruffed Grouse; 1 Northern Shrike; 1 Blue Jay; 1 Barred Owl; 1 Green Parrot; 2 eggs of Woodcock.

- MISS ELIZABETH C. TAYLOR, Winnipeg, Manitoba.
8 bird skins, from Arctic America.
- ERNEST E. THOMPSON, Toronto, Can.
4 bird skins.
- I. N. TRAVIS, JR., Orange, N. J.
1 Horned Grebe; 1 Red-shouldered Hawk; 1 Blue Jay; 1 Northern
Shrike; 1 mounted Bonaparte Gull.
- CHARLES K. WORTHEN, Warsaw, Ill.
4 bird skins, from Western Mexico.
- A. H. VERRILL, New Haven, Conn.
33 rare bird skins, from Costa Rica.

DEPARTMENT OF REPTILES AND FISHES.

- HORACE C. ADAMS, Portsmouth, N. H.
1 Horned Toad, from California.
- CHARLES SLOVER ALLEN, M. D., New York City.
50 Snakes; 40 Lizards; 1 Alligator; 2 Iguanas; 2 eggs and 125 em-
bryos of Loggerhead Turtle (two series showing stages of
development); 3 jaws of Sharks; mostly from Florida.
- H. P. ATTWATER, Rockport, Texas.
4 Lizards.
- GEORGE P. BAKER, New York City.
1 Tree Frog, from Jamaica, W. I.; palatal bone of Drum Fish.
- DR. G. BAUR AND C. F. ADAMS, Chicago, Ill.
2 Galapagos Tortoises.
- IRVIN CADMUS, New York City.
1 Snake from Cuba.
- H. CARACCIOLO, Port-of-Spain, Trinidad.
1 Crocodile.
- FRANK M. CHAPMAN, New York City.
1 Snake.
- DEPARTMENT OF PUBLIC PARKS, New York City. (Central Park
Menagerie.)
3 Pythons.
- WM. C. HARRIS, New York City.
Series of jaws of young Salmon, illustrating growth.
- MISS PAULINE A. LAUVET, Jersey City, N. J.
1 Snake and 1 Toad.
- GEORGE N. LAWRENCE, New York City.
1 stuffed Porcupine Fish.
- GEORGE H. MACKAY, Nantucket, Mass.
1 Striped Snake and litter of young.
- C. OERTEL, New York City.
1 mounted Iguana.
- LIEUT. J. G. ORD, U. S. A.
1 large Alligator Gar, from Fort Clarke, Texas.
- MISS FRANCES PELL, New York City.
1 young Alligator.

JOHN ROWLEY, JR., New York City.
2 Muhlenberg's Turtles ; 1 Hog-nosed Snake.

E. G. STEWART, New York City.
Snakes' eggs, from California.

HENRY J. THOMAS, New York City.
1 Box Turtle.

WILLIAM WALSH, Nappville, Va.
1 small fish ; 6 *Hippocampi*.

DEPARTMENT OF ENTOMOLOGY.

W. E. BOORAEM, New York City.
Specimens of nest of White Ant, from Jamaica, W. I.

DEPARTMENT OF AGRICULTURE OF MASSACHUSETTS (through
Prof. C. H. Fernald).

Specimens illustrating the life history of the Gipsy Moth (*Ocneria
dispar*).

F. INGRAHAM, Elmira, N. Y.
1 Centipede, from Cuba, W. I.

IRVIN CADMUS, New York City.
1 Bird Spider, from Cuba.
1 Scorpion, " "

REV. J. L. ZABRISKIE, Flatbush, L. I.
A small collection of Beetles, from New York.

JOSEPH HUSSON, JR., New York City.
Specimen of wood showing galleries made by a species of ant.

DANIEL J. KEARNEY, New York City.
1 Hercules Beetle (*Dynastes hercules*), from the Island of Dominica,
W. I.

MISS DE PEYSTER, New York City.
1 Wasp nest, from Lenox, Mass.

WM. M. WILSON, New Jersey.
1 Spider, from New Jersey.

DR. H. H. RUSBY, New York City.
Specimens of insect galls, from South America.

DR. J. W. METCALF, New York City.
Several Beetles, from U. S. Columbia.

GEORGE D. BRADFORD, New York City.
2 boxes of *Micro-lepidoptera*.

H. G. DYAR, New York City.
1 *Trochilium fraxini*.

F. M. CHAPMAN, New York City.
1 Gigantic Locust, from Trinidad.

DEPARTMENT OF ARCHÆOLOGY AND ETHNOLOGY.

APPLETON STURGIS, Esq., New York City.

Two-handed sword, made of blade of the Saw Fish, painted on one side in different colors and in fantastic pattern, from New Guinea.

Two-handed Club (wood); teeth on one side, hook at end on other side. Samoa Islands.

Curiously carved club, open work on both sides, from Samoa Islands. Club, finely carved, from Samoa Islands.

Club, unusual shape, rope handle attached, from New Guinea.

Bird's-head club, from New Caledonia.

Wooden fetich, representing human head, with long upright ears, body charred in places, amulet of shell attached to lower end, from New Guinea.

Wooden fetich in shape of paddle, carved on both sides in relief with representations of grotesque human figures, from New Ireland.

Shield, carved in relief with representation of human figure, decorated with braids of human hair, feathers and straw work, from New Guinea.

Mat, four feet long, one foot wide, woven from grass and profusely decorated with tufts of human hair and feathers of different birds, supposed to have been hung up inside the house as an ornament and token of prowess of the chief, the tufts of hair representing each an enemy killed in battle; from New Guinea.

Mat, similar to above, but smaller, decorated with red and white feathers, from New Guinea.

Mat, similar to the above, larger and decorated with different feathers; from New Guinea.

Representation of a human head, carved from a cocoanut, crowned with feathers and set in a straw cap or hood; a fetich, from New Guinea.

Pillow, or head rest, elaborately carved, the legs attached and not cut from the same piece of wood, as usual, from New Zealand.

Mask, made from the front of a human skull, the frontal bone and the upper and lower jaw being fastened together and cemented with red clay, the whole ornamented with a fringe of sponge; a stick fastened on the inside by which the mask was held between the teeth of the wearer in their dances and religious ceremonies; from New Britain Islands.

Mask, similar to above, from New Britain Islands.

Large Bag, made from coir rope, from New Guinea.

Lime bottle, with ivory spoon, from New Guinea.

Woman's head dress, with heavy seed pendants falling on each side of the ears, from New Guinea.

Stone Axe, or hammer, fastened to a handle with "blackboy gum," Australia.

Carved boomerang, Australia.

" " similar to above, Australia.

Boomerang, plain, Australia.

Pottery jar, from Fiji Islands.

A large amount of material, from the Villard Expedition in Peru, South America.

A collection of Archæological material, from near Casas Grandes, Chihuahua. A collection of Ethnological material, relating to the Tarahumare Indians, Chihuahua, Mexico. Carl Lumholtz Expedition.

EXCHANGES.

LIBRARY.

- H. H. & C. S. BRIMLEY, Raleigh, N. C.
 Journals. 6 odd numbers.
 3 pamphlets.
- A. E. FOOTE, Philadelphia, Pa.
 A Manual of the Coniferae. 1881.
 On the Strength of American Timber. By R. H. Thurston. 1879.
- R. C. SCHIEDT, Lancaster, Pa.
 Principles of Zoölogy. 1892.
- T. H. WHEATLEY, Montpelier, Vt.
 Reports of Vermont Dairymen's Association. 20-23. 1887-1893.

GEOLOGICAL DEPARTMENT.

- A. C. BATES, New York.
 1 Specimen of fossil Turtle, showing bony structure and plastron,
 from Bad Lands, Sioux Co., Neb.
 1 Head (*Oreodon gracilis*), from Bad Lands, Sioux Co., Neb.
 2 Specimens Gasteropods (*Vivipara*), from Bad Lands, Sioux Co.,
 Neb.

MINERALOGICAL DEPARTMENT.

- L. CAHN, New York.
 3 Separate crystals of Zircon, from El Paso Co., Col.
 A set of decolorized specimens, from El Paso Co., Col.
 Box of opaque Zircons, from Cheyenne Mt., El Paso Co., Col.
 1 Specimen of Bastnasite, from ridge above N. Cheyenne, El Paso
 Co., Col.
- G. F. KUNZ, New York.
 Diamoniferous earth, from Plum Creek, Pearce Co., Wis.
 Carnelian ring, to be worn as a pendant to a necklace, made for Cen-
 tral African trade at Oberstein, Germany.

DEPARTMENT OF MAMMALS.

- LELAND STANFORD UNIVERSITY, Palo Alto, Cal., through Prof.
 Charles H. Gilbert.
 21 small Mammals, from California.
- CHARLES F. BATCHELDER, Cambridge, Mass.
 3 Striped Squirrels, from Banff, Canada.

DEPARTMENT OF BIRDS.

- DR. WM. C. AVERY, Greensboro', Ala.
 5 specimens.
- DR. PHILIP L. SCLATER, Zoölogical Society, London.
 121 specimens, from various localities.

PURCHASES.

LIBRARY.

- Catalogue of the Birds in the British Museum. XXII. 1893.
 Edwards Butterflies of North America. No. 14. 1893.
 Trow's New York City Directory. 1893.
 Publisher's Weekly. 1893.
 The City Record. 1893.
 Science. 1893.
 American Journal of Science and Arts. 1893.
 American Geologist. 1893.
 American Naturalist. 1893.
 Garden and Forest. 1893.
 Forest and Stream. 1893.
 The Ibis. 1893.
 The Zoölogist. 1893.
 Nature. 1893.
 Annales and Magazine of Natural History. 1893.
 Biologia Centrali Americana. Nos. 106-112. 1893.
 Tryon's American Marine Conchology. Manual of Conchology. Nos. 31,
 32, 33, 55-57.
 Zoölogical Record. 1892.
 Zoölogischer Anzeiger. 1893.
 Palæontographica. 1892-'93.
 Cabanis's Journal für Ornithologie. 1893.
 Neues Jahrbuch Mineralogie, Geologie and Palæontology. 1893.
 King, M. Handbook of New York City. Second Edition. 1893.
 18 Early Annual Reports of Central Park.
 The Cultivator on Agriculture. 27 vols.
 Reiss, W. & Stübel, A. The Necropolis of Ancon in Peru. 3 vols. 1885-7.
 Stübel, A. & Uhle, M. Die Ruinenstaette des Alten Peru. 1892.
 Scudder, S. H. Brief Guide to Commoner Butterflies of N. U. S. and
 Canada. 1893.
 Scudder, S. H. The Life of a Butterfly. 1893.
 Edwards, C. E. Camp-Fires of a Naturalist. 1893.
 Königlich-Preussische Akademie der Wissenschaften zu Berlin.
 Sitzungsberichte. 1887, 11 parts. 1888, 22 parts. 1889, 20 parts. 1890,
 22 parts. 1891, 23 parts.
 Kongliga Vetenskaps Akademien, Forhandlingar, Stockholm.
 Öfversigt. 23 parts. 1842-1875.
 Naturforschenden Gesellschaft, Freiburg.
 Berichte. Erste Band (1886).
 Proceedings Royal Society of Victoria. Vol. II (new series). 1890.
 Transactions and Proceedings Royal Society Victoria. Vol. XVI, 1880.
 Vol. XX, 1884.
 Proceedings of Zoölogical and Acclimation Society of Victoria. Vol. I. 1872.
 Kirby, W. F. A Synonymic Catalogue of Lepidoptera Heterocera. Vol. I.
 1892.
 Hofman, E. Dr. Die Raupen der Schmetterlinge Europas. 23 parts.
 Burmeister, H. Handbuch der Entomologie. 6 vols. 1832-1847.
 Sharpe, R. B. Monograph of the Paraseidæ or Birds of Paradise. 1892-
 1893.
 Bosgoed, D. M. Biblio Ichthyol. et Piscat. Catalogus van Boeken. 1874.
 Pritzel, G. A. Thesaurus Literaturæ Botanicae Omnium Gentium, etc.
 1872.

- Saussure, H. de. *Addimenta ad Prodrorum. Ôedipodiorum.* 1888.
 Saussure, H. de. *Prodrorum Ôedipodiorum, Insectorum, etc.* 1884.
 Kirby, W. F. *A Review of the Sub-family Libellulinae.* 1889.
Proceedings of the Royal Society. 16 vols.
The Asiatic Journal and Monthly Register for British and Foreign India. 46 numbers.
The New York Times. 1861-'62.
 Scribner's *Monthly Illustrated Magazine.* 230 odd numbers.
The Century Magazine. 315 odd numbers.
Harper's Magazine. 13 odd numbers.
Atlantic Magazine. 2 odd numbers.
Outing. 1 odd number.
The Horticulturist. 8 vols.
The Southern Cultivator. 2 vols.
Société Vaudoise der Science Naturelle. Bulletin. 2d Ser. Vol. XII. No. 70.
La Société Linneenne de Bordeaux. Actes. Tome XXIV ; 1, 2 and 5 Liv. XXVII ; 1. XXVI ; 4, 5, 6. 1868.
A Synonymic Catalogue of Neuroptera Odonata or Dragon Flies. By W. F. Kirby. 1890.
The Dominion Annual Register and Review. 19th year. 1882-'85. Toronto, Canada.

MINERALOGICAL DEPARTMENT.

- 1 Tourmaline crystal, polished and cut, from California.
 1 Rhodochrosite, from Colorado.
 1 Specimen of sulphur, from Girgenti, Sicily.
 3 Crystals " " " " " "
 A large slab of Labradorite, from Hudson Bay Territory.
 A large mass of " Spike Silver," from Bland Mine, Richmond Basin, Gila Co., Ariz.
 E. E. HOWELL, Washington, D. C.
 132 Models of crystals in wood, illustrating the six systems of crystallography.
 3 Sets of minerals, illustrating physical constants, including one set illustrating cleavage, one set lustre, and one set hardness; in all, 25 specimens.
 1 Set (6) of Preston celluloid crystal models.

DEPARTMENT OF MAMMALS.

THROUGH MUSEUM EXPEDITIONS.

- 217 specimens, from the Island of Trinidad.
 57 specimens, vicinity of New York City.
 165 specimens, from New Brunswick, collected by Charles P. Rowley and Tappan Adney.

BY DIRECT PURCHASE.

- 1 Chapman's Zebra; 246 small Mammals from Lower California; 374 small Mammals, chiefly from Texas, Arizona and California.

DEPARTMENT OF BIRDS.

THROUGH MUSEUM EXPEDITIONS.

576 specimens, from the Island of Trinidad.

135 specimens, from New Brunswick, collected by Charles P. Rowley and Tappan Adney.

BY DIRECT PURCHASE.

130 specimens, mostly from Mexico and Central America.

DEPARTMENT OF REPTILES AND FISHES.

THROUGH MUSEUM EXPEDITIONS.

25 Reptiles and Batrachians, from the Island of Trinidad.

DEPARTMENT OF MAMMALIAN PALÆONTOLOGY.

THROUGH MUSEUM EXPEDITION.

150 Specimens of fossil mammals from the Pliocene sand beds of Nebraska, including many exceptionally fine representations of extinct Horses, Camels, Deer, Peccaries, Sloths, Rodents and Carnivores.

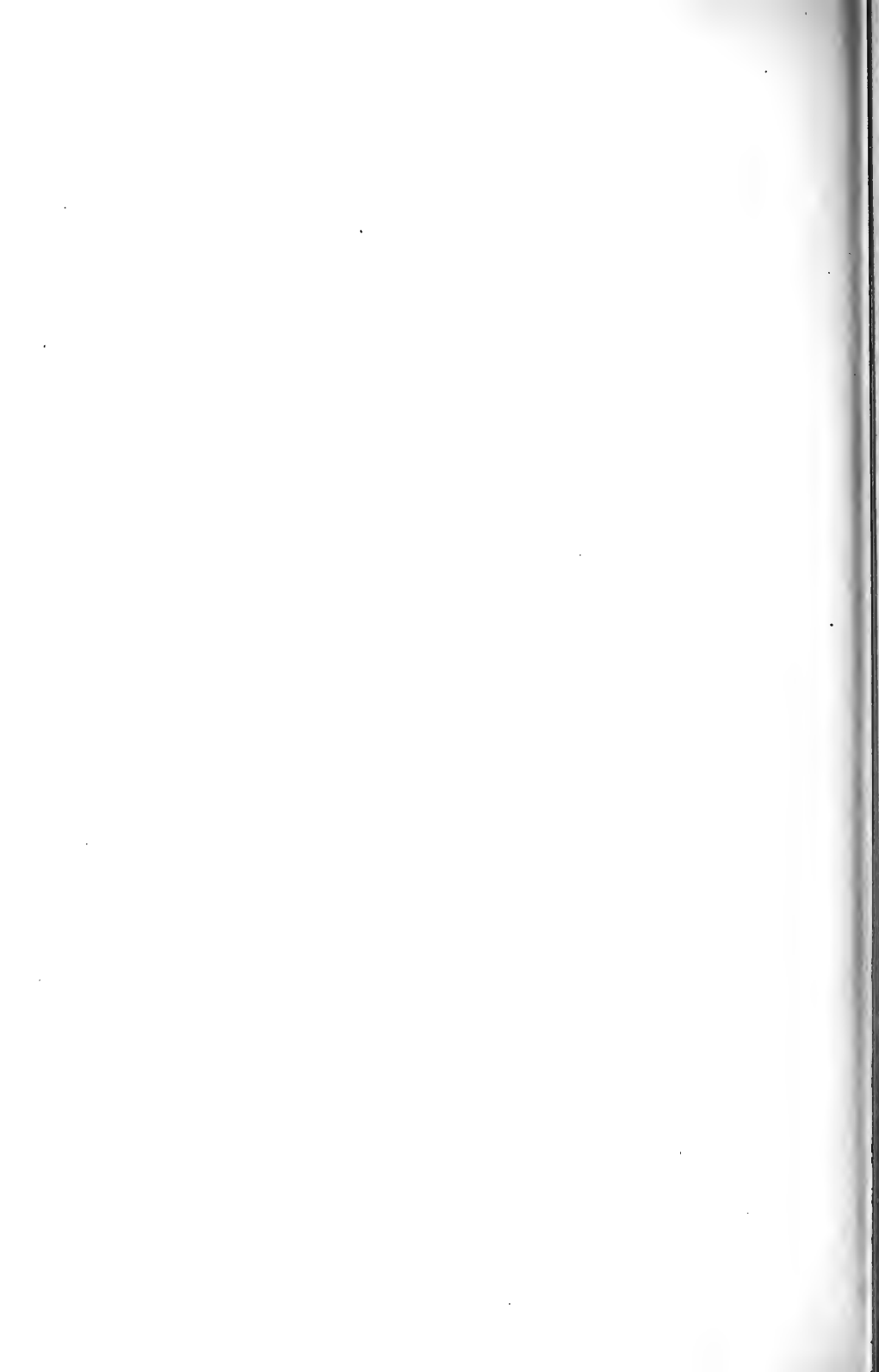
10 Specimens from the Loup Fork Beds of Nebraska, among which are included remains of three-toed Horses, bones of Camels and Carnivores.

About 50 specimens of extinct mammals from the Eocene deposits of the Washakie Basin, Wyoming. This collection includes an exceptionally fine series of skulls of the large six-horned Dinocerata, numerous skulls and jaws of Palæosyops, together with many smaller species.

About 150 specimens of extinct mammals from the Eocene deposits of the Bridger Basin, Wyoming. In this collection there are five complete skulls, together with complete limbs and other parts of the skeleton of the large Uintatherium, a complete skeleton of *Patriofelis tigrinus*, hitherto known from only fragments of the jaws, numerous skulls and parts of skeletons of Palæosyops, Hyrachyus, Lemurs, Rodents and Carnivores.

BY PURCHASE.

Cast of large Sloth, Megatherium, mounted ; 3 skulls of Titanotherium ; 1 Lower Jaw of Titanotherium ; foot of Tapir ; foot of Horse ; foot of Rhinoceros ; foot of Elephant ; foot of Llama ; foot of Cow ; foot of Peccary ; foot of Elk ; foot of Antelope ; foot of Bear ; foot of Lion ; foot of Sloth.



INCORPORATION.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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

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

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

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

SEC. 3. Said Corporation may purchase and hold, or lease, any real and personal estate necessary and proper for the purposes of its incorporation, provided they shall not hold real estate which shall exceed one hundred thousand dollars in value.

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. WILERS, JR., *Deputy Secretary of State.*

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

ARTICLE III.

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

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

ARTICLE IV.

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

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

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

ARTICLE V.

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

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

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

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

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

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

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

ARTICLE VI.

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

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

ARTICLE VII.

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

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

ARTICLE VIII.

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

ARTICLE IX.

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

ARTICLE X.

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

ARTICLE XI.

A majority of the Trustees for the time being 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 one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

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

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

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

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

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

II.

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

III.

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

IV.

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

V.

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

VI.

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

VII.

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

VIII.

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

PATRONS.

By the Payment of One Thousand Dollars.

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

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

* Deceased.

A. J. FORBES-LEITH.
 GEORGE BLISS.
 HON. M. C. D. BORDEN.
 ARCHIBALD ROGERS.
 GEORGE C. COOPER.
 MRS. M. SCHUYLER ELLIOT.
 APPLETON STURGIS.
 THEODORE A. HAVEMEYER.

WILLIAM C. WHITNEY.
 GEORGE G. HAVEN.
 JAMES BAKER SMITH.
 CYRUS W. FIELD, JR.
 JAMES ANGUS.
 HENRY VILLARD.
 DR. WM. PEPPER.

Honorary Patron,

DR. EDGAR A. MEARNs, U. S. A.

FELLOWS.

By the Payment of Five Hundred Dollars.

SAMUEL WILLETS.*
 ROBERT GORDON.
 HOWARD POTTER.
 C. V. S. ROOSEVELT.*
 CHARLES W. GRISWOLD.*
 SAMUEL F. B. MORSE.*
 RUTHERFORD STUYVESANT.
 MEREDITH HOWLAND.*
 MARSHALL O. ROBERTS.*
 JOHN ALSTYNE.*
 O. B. POTTER.
 HON. LEVI P. MORTON.
 HANSON K. CORNING.*
 STEWART BROWN.*
 ABRAM DUBOIS.*
 TIFFANY CO.
 LUCIUS TUCKERMAN.
 ALFRED B. DARLING.
 A. A. LOW.*
 RICHARD MORTIMER, JR.
 THOS. A. VYSE, JR.
 GEORGE G. GRAY.*
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 SAMUEL HAWK.*
 JOHN SNEDEN.*
 GEORGE BLISS.
 R. A. WITTHAUS, M.D.

THOMAS BARRON.*
 GEORGE W. CASS.
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 PROF. WM. LIBBEY, JR.
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 D. B. IVISON.
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 JOHN T. TERRY
 JOSIAH M. FISKE.*
 ELLIOTT F. SHEPARD.*
 JOHN SLOANE.*
 JOHN D. ROCKEFELLER.
 PHILLIPS PHŒNIX.
 LLOYD PHŒNIX.
 WM. H. HARBECK.
 D. WOLFE BISHOP, JR.
 CORTLANDT FIELD BISHOP.
 WHEATON B. KUNHARDT.
 SAMUEL P. AVERY.
 JAMES H. JONES.
 JAMES B. HAGGIN.
 MRS. RICHARD P. DANA.

Honorary Fellow,

JAMES THOMSON.*

* Deceased.

LIFE MEMBERS.

By the Payment of One Hundred Dollars.

JOHN E. ALEXANDRE.
 CONSTANT A. ANDREWS.
 MRS. B. L. ANDREWS.
 B. G. ARNOLD.
 SAMUEL P. AVERY.
 MRS. JAMES C. AYER.
 MISS E. AYMAR.
 JAS. MUHLENBERG BAILEY.
 DAVID BANKS.
 HENRY I. BARBEY.
 FORDYCE BARKER, M.D.*
 W. H. BEADLESTON.
 GEORGE E. BELCHER, M.D.*
 C. M. BELL, M.D.
 CORNELIUS N. BLISS.
 A. K. BOLAN.
 HENRI M. BRAEM.
 BENJAMIN BREWSTER.
 CHAS. P. BRITTON.
 ADDISON BROWN.
 FRANK G. BROWN.*
 JAMES M. BROWN.*
 JOHN L. CADWALADER.
 MRS. ALEX. CAMERON.
 CHAS. M. CAULDWELL, M.D.
 ISAAC P. CHAMBERS.*
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 HENRY CHAUNCEY.
 HENRY CLEWS.
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 WILLIAM COLGATE.
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 S. D. COYKENDALL.
 JAMES CRUIKSHANK.
 A. DALRYMPLE.*
 CHAS. M. DaCOSTA.*
 HENRY J. DAVISON.*

THOMPSON DEAN.
 F. W. DEVOE.
 GEORGE B. DE FOREST.
 S. DEJONGE.
 J. H. DEMOTT.*
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 ANDREW E. DOUGLASS.
 R. G. DUN.
 WM. BUTLER DUNCAN.
 JAMES H. DUNHAM.
 EDWARD J. FARRELL.
 JOHN FITCH.
 PROF. A. E. FOOTE.
 JAMES FRASER.
 FRANCIS P. FREEMAN.
 SETH BARTON FRENCH.
 GEORGE GARR.
 WILLIAM H. GEBHARD.
 THEODORE K. GIBBS.
 PARKE GODWIN.
 JAMES J. GOODWIN.
 STEPHEN T. GORDON.*
 HON. ANDREW H. GREEN.
 JOHN GREENOUGH.
 JOHN N. A. GRISWOLD.
 FRANKLIN L. GUNTHER.
 ALEX. HADDEN, M.D.
 JOHN A. HADDEN.
 JOHN P. HAINES.
 RICHARD T. HAINES.
 W. A. HAINES, JR.
 MISS E. S. HAINES.
 MRS. W. A. HAINES.
 WILLIAM M. HALSTED.
 WILLIAM GASTON HAMILTON.
 BENJAMIN HART.
 FREDERICK C. HAVEMEYER.*
 JACOB HAYS.
 MRS. H. HERRMAN.

* Deceased.

ALFRED M. HOYT.
 THEO. D. HOWELL.
 WILSON G. HUNT.*
 C. P. HUNTINGTON.
 W. B. ISHAM.
 D. B. IVISON.
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 JOHN ALSOP KING.
 WM. M. KINGSLAND.
 A. C. KINGSLAND.
 PERCIVAL KNAUTH.
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 GEO. F. KUNZ.
 JOSEPH LAROCQUE.
 JAMES M. LAWTON.
 STEPHEN R. LESHER.
 JAMES LOW.
 EDWARD LUCKEMEYER.
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 CHARLES ADDISON MILLER.
 ROBERT B. MINTURN.*
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 E. C. MOORE.*
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 MANDEVILLE MOWER.
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 THOMAS B. MUSGRAVE.
 W. B. NEFTEL, M.D.
 H. VICTOR NEWCOMB.
 W. D. NICHOLS.
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THOMAS H. O'CONNOR.
 C. H. ODELL.
 E. OELBERMANN.
 H. O'NEILL.
 A. O. OSBORN.
 MRS. A. O. OSBORN.
 JOHN C. OSGOOD.
 HENRY PARISH.
 JOHN E. PARSONS.
 WILLIAM I. PEAKE.
 ALFRED PELL.
 MISS FRANCES PELL.
 GIFFORD PINCHOT.
 JAMES W. PINCHOT.
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 JOHN PONDIR.
 HENRY A. V. POST.
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 CHANDLER ROBBINS.
 ARCHIBALD ROGERS.
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 JACOB H. SCHIFF.
 CHAS. H. SCHULTZ.
 WM. F. SEBERT.
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 ELLIOTT F. SHEPARD.*
 JOHN H. SHERWOOD.
 I. H. SHOENBERGER.*
 S. N. SOLOMON.
 HENRY MILFORD SMITH.
 L. DINWIDDIE SMITH.
 HENRY F. SPAULDING.
 LOUIS STERN.
 ALEX. H. STEVENS.
 C. AMORY STEVENS.
 ANSON PHELPS STOKES.
 MISS OLIVIA E. P. STOKES.
 ISIDOR STRAUS.
 THOMAS W. STRONG.*
 HENRY M. TABER.
 JAMES TERRY.

* Deceased.

SAMUEL THOMAS.
 FRED. F. THOMPSON.
 SAMUEL THORNE.
 A. N. TOWNE.
 EFFINGHAM TOWNSEND.
 SPENCER TRASK.
 EDWARD TUCK.
 EDWARD UHL.
 H. D. VAN NOSTRAND.
 HERMAN C. VON POST.
 DR. HENRY F. WALKER.
 BENJAMIN WELLES.

FREDERICK B. WENDT.
 LOOMIS L. WHITE.
 ED. KIRK WILLARD.
 S. C. WILLIAMS.*
 JOHN T. WILLETS.
 ROBERT R. WILLETS.
 HON. BENJAMIN A. WILLIS.
 EDWARD WINSLOW.
 JOHN WOLFE.
 HENRY H. WOTHERSPOON.
 JOHN H. WYMAN.
 MRS. JOHN J. WYSONG.

Honorary Life Members,

GEORGE H. BROWN. PROF. JAMES DOUGLAS.
 W. W. COLE. MRS. FLORENCE HOWLAND.
 • HOFRATH A. B. MEYER.

* Deceased.

ANNUAL MEMBERS.

By the Payment of Ten Dollars Yearly.

Abegg, Henry	Aronson, Rudolph	Beers, M. H.
Abbott, Frank, M.D.	Auchincloss, Mrs. E.	Bell, Hon. Isaac
Agnew, Hon. John T.	Austin, William	Benedict, James H.
Aitken, John W.	Aufhauser, Samuel	Bend, George H.
Aldrich, Mrs. H. D.		Benjamin, John
Alexander, Henry M.	Babcock, Samuel D.	Bentley, Charles E.
Alexander, Jas. W.	Baldwin, C. C.	Bentley, Norman S.
Alexander, John F.	Baldwin, J. G., M.D.	Berdell, Theodore
Allen, Calvin H.	Baldwin, O. D.	Berg, H. E.
Amend, Bernard G.	Baldwin, W. D.	Bernheimer, Adolph
Amsinck, Gustave	Baldwin, William	Bernheimer, Charles L.
Amy, H.	Ballin, Gustav	Bernheimer, Simon
Anderson, E. Ellery	Bangs, L. Bolton, M.D.	Berrian, Charles M.
Anderson, Henry H.	Banta, C. V.	Bianchi, F.
Andreini, J. M.	Banyer, Goldsborough	Bien, Julius
Appleton, Daniel	Barnes, E. W.	Bissinger, Philip
Appleton, W. W.	Barnes, John S.	Blagden, George
Appleton, Wm. H.	Barnes, Theo. M.	Blakeman, Birdseye
Archbold, John D.	Barney, Chas. T.	Blanchard, G. R.
Armour, H. O.	Bawden, Wm.	Bliss, George
Arnold, E. S. F., M.D.	Beckel, Joseph	Bliss, George T.
Arnold, Hon. John H. V.	Beckman, Gerard	Bloodgood, John H.
Arnoux, William H.	Beer, Julius	Blumenthal, Aug.

- Bogert, Albert G.
 Bogert, Henry A.
 Bogert, Stephen G.
 Bond, Frank S.
 Bonn, William B.
 Booss, Frederick
 Borg, Simon
 Boskowitz, I.
 Bowdoin, G. S.
 Bradley, S. R.
 Bradley, William H.
 Breslin, James H.
 Bristol, John I. D.
 Bristow, Hon. B. H.
 Brockway, A. N., M.D.
 Brookfield, Wm.
 Brown, J. Crosby
 Brown, Vernon H.
 Bruce, Col. S. D.
 Bryce, William
 Buckham, George
 Burden, Henry, 2d
 Burden, James A.
 Butler, Charles
 Butler, Prescott Hall
 Butler, Wm. Allen
- Cahn, Leopold
 Caldwell, Charles H.
 Calman, Emil
 Cameron, Edward M.
 Cammann, H. H.
 Camp, Hugh N.
 Camp, W. A.
 Cannon, H. W.
 Cassard, William J.
 Cheever, John H.
 Chesebrough, Robert A.
 Chittenden, J.
 Church, E. Dwight
 Cisco, John J.
 Clark, Bernard S.
 Clark, Cyrus
 Clark, George C.
 Clarke, Charles C.
 Clarke, Charles S.
- Clarkson, Frederick
 Cochrane, John W.
 Coffin, Chas. H.
 Coffin, Edmund
 Coffin, William Edward
 Coggeshall, Edwin W.
 Cohen, Samuel M.
 Colgate, Abner W.
 Colgate, R. R.
 Colgate, Samuel
 Collins, Miss Ellen
 Collins, Miss M. M.
 Compton, A. T.
 Conger, Henry C.
 Conkling, Rev. Dr. N.W.
 Conover, Alonzo E.
 Constable, Frederick A.
 Constantine, A. J.
 Contoit, Chas. H.
 Cooper, John
 Cornell, R. R.
 Cory, Mrs. S. M.
 Coster, C. H.
 Cotheal, Alex. I.
 Cox, Allyn
 Cranitch, William I. A.
 Crawford, R. L.
 Crimmins, John D.
 Crocker, George Aug.
 Cross, Richard J.
 Cruger, S. V. R.
 Cummings, Richard
 Curtiss, Frank
 Cutting, Robt. Fulton
 Cutting, W. Bayard
- Daly, Hon. Chas. P.
 Davies, William G.
 Davison, C. A.
 Day, Edward G., M. D.
 Day, Henry M.
 Day, Rev. Henry S.
 Decker, Joseph S.
 Deeves, Richard
 de Forest, Robert W.
 de Rham, Charles
- DeCoppet, Henry
 DeKlyn, B. F.
 De Ruyter, John
 De Vinne, Theo. L.
 De Witt, George G.
 Delafield, Maturin L.
 Detwiller, Jacob J.
 Dewitt, William G.
 Dickie, E. P.
 Dickey, Charles D.
 Dickey, Mrs. Hugh T.
 Dieterich, Chas. F.
 Ditmars, Raymond L.
 Dimock, Henry F.
 Dix, Rev. Morgan, D.D.
 Dodge, Cleveland H.
 Dodge, George E.
 Dodge, Miss Grace H.
 Dodge, Mrs. Wm. E.
 Doelger, Peter
 Dommerich, L. F.
 Doudge, James R.
 Dougherty, A.
 Doughty, Mrs. Alla
 Dowd, Hon. Wm.
 Dowd, Prof. Daniel L.
 Drake, John J.
 Drakenfeld, B. F.
 Draper, Dr. Wm. H.
 Draper, Frank E.
 Du Bois, Dr. Matthew B.
 Du Bois, Miss Katharine
 Du Bois, William A.
 Duncan, John P.
 Dunham, G. H.
 Dunlap, Robert
 Dyett, A. R.
- Earle, Wm. P.
 Ehret, George
 Eimer, August
 Einstein, David L.
 Elder, Mrs. M. A.
 Elkins, Stephen B.
 Elliot, Edward
 Ellis, John W.

- Ely, Richard S.
 Eno, Amos F.
 Ettlinger, Louis
 Evans, William T.
 Ewart, James M.
- Fahnestock, H. C.
 Fargo, James C.
 Farnham, Mrs. Horace P.
 Fellows, C. H.
 Fellows, William Gordon
 Ferris, Frank A.
 Fleet, Oliver S.
 Fletcher, Andrew
 Flint, Miss Helena
 Flower, A. R.
 Floyd, James R.
 Foote, C. B.
 Foote, Dr. E. B., Jr.
 Ford, James B.
 Ford, John R.
 Fosdick, Chas. B.
 Foster, Scott
 Frankenberg, D.
 Fraser, Alfred
 Fraser, George S.
 Freeborn, G. C., M.D.
 French, S. A.
 Frissell, A. S.
 Froescher, A. F.
- Gade, Henry
 Garland, James A.
 Gautier, J. H.
 Georger, Louis F.
 Gibb, John
 Gilberg, Charles A.
 Gillis, Chas. J.
 Goddard, F. N.
 Godfrey, Chas. H.
 Godkin, Edwin L.
 Goelet, Ogden
 Goldenberg, Simon
 Goodridge, Frederick
 Gordon, George
 Gossler, G. H.
- Gotthold, Fred.
 Grace, Hon. Wm. R.
 Gracie, J. K.
 Graham, Malcolm
 Greacen, Thomas E.
 Greenwood, Isaac J.
 Gregory, Chas. E.
 Griswold, Chester
 Guggenheimer, Randolph
 Gulliver, William C.
 Gunther, F. Frederick
 Gurnee, W. S.
- Haber, Louis I.
 Hague, James D.
 Hahlo, Hermann
 Hall, Fred J.
 Hall, Mrs. John H.
 Halls, William, Jr.
 Halsted, Miss L. P.
 Hamilton, John L.
 Hamilton, Edmond H.
 Hammond, E. A.
 Harbeck, Mrs. Eliza D.
 Hardt, William A.
 Harris, Robert
 Hart, Mrs. A. B.
 Hartley, Marcellus
 Haskins, C. W.
 Havemeyer, J. C.
 Haviland, Edwin
 Hawley, Edwin
 Hawley, Henry E.
 Hayden, Brace
 Haynes, A. E.
 Haxtun, William
 Hendricks, Edmund
 Heroy, Mrs. James H.
 Higgins, Francis
 Higgins, Mrs. Barton B.
 Hill, Geo. H. B.
 Hill, Sylvester C.
 Hillhouse, Hon. Thos.
 Hilyard, George D.
 Hinman, W. K.
 Hinrichs, Chas. F. A.
- Hinton, J. H., M.D.
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 Hodgman, Geo. F.
 Hoe, Peter S.
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 Hogg, T. Egenton
 Holden, E. R.
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 Holt, Henry
 Holt, R. S.
 Homans, E. C.
 Hone, Robert S.
 Horton, Burrett W.
 Houghton, Rev. G. H.
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 Jackson, John B.
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 Juilliard, A. D.

- Kaskel, Albert
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 Kellogg, Mrs. Chas.
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 Kemp, Edward
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 Kerwin, Andrew J.
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 Ketchum, A. P.
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 King, William F.
 Kingman, Abel Willard
 Kinnicutt, Dr. F. P.
 Kissam, Philip
 Klenke, William H.
 Knapp, H., M.D.
 Knickerbaecker, H.
 Kohns, L.
 Kraus, Prof. John
 Kraus, William
 Kuttroff, Adolph

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 Lamborn, R. H., Ph.D.
 Langdon, Woodbury G.
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 Lange, J. D.
 Langmann, G., M.D.
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 Moore, Mrs. W. D.
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 Morrison, George A.
 Mowry, A. L.
 Munro, George

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 Neumann, C. G.
 Newton, Henry J.
 Nisbet, William F.

 O'Donohue, Joseph J.
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 Olcott, F. P.
 Olmstead, Dwight H.
 Olyphant, R. M.
 Olyphant, Robert
 Oppenheimer, Dr. H. S.
 Owen, Mrs. Thomas J.
 Owens, Wm. W.

 Packard, S. S.
 Paddock, Eugene H.
 Palmer, N. F.
 Palmer, S. S.
 Park, Joseph
 Parsell, Henry V.
 Parsons, W. H.
 Patterson, Hon. Edward
 Peabody, Arthur J.

- Pell, John H.
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 Peters, George A., M.D.
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 Peyser, Frederick M.
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 Powell, William R.
 Powell, Wilson M.
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 Putnam, George L.
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 Seligman, Isaac N.
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 Shaw, William H.
 Shea, George
 Sherman, Charles A.
 Shethar, Samuel
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 Sill, Charles
 Sinclair, John
 Skidmore, Mrs. Jos. R.
 Sloan, Samuel
 Sloan, William S.
 Smith, Adon
 Smith, Charles S.
 Smith, Geo. W.
 Smith, James Rufus
 Smith, John Jewell
 Smith, Rev. Cornelius B
 Smith, William Alex.
 Snow, Elbridge G., Jr.
 Spencer, Charles H.
 Spencer, Hon. James C.

 Starin, John H.
 Stearns, John Noble
 Stebbins, Jas. H.
 Stechert, Gustav E.
 Steers, Edward P.
 Steers, Henry
 Stephens, Benjamin
 Stern, Benjamin
 Sterry, Geo. E.
 Stewart, Lispenard
 Stewart, William R.
 Stiehl, Gustav H.
 St. John, William P.
 Stone, Edwin
 Stone, Mason A.
 Stone, Mrs. Catherine C.
 Stone, Mrs. Georgiana C.
 Stone, Sumner R.
 Storm, Clarence
 Storm, George
 Strong, Charles E.
 Strong, W. L.
 Sutherland, John
 Sutherland, John L.
 Sutton, Woodruff

 Tailer, Edward N.
 Taintor, C. M.
 Taintor, Charles N.
 Talcott, James
 Talmadge, Henry
 Taylor, Mrs. Aug. C.
 Taylor, George
 Taylor, Mrs. Sarah
 Taylor, Stevenson
 Tefft, F. Griswold
 Tefft, Wm. E.
 Terbell, H. S.
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 Thompson, John C.
 Thompson, W. Prall
 Thomson, Eugene
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 Tiemann, Peter C.
 Tiffany, Louis C.
 Tilford, Charles E.

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Tonnellé, John L.	Wales, Salem H.	Whitehead, Charles E.
Toothé, William	Walker, William I.	Whitely, James
Toucey, J. M.	Wallace, James	Whitney, Alfred R.
Townsend, R. W.	Wallace, Lewis	Wicke, William
Tracy, J. Evarts	Wallach, Antony	Wickes, Edward A.
Trevor, H. G.	Ward, Lebbeus B.	Wickham, Delos O.
Trevor, Mrs. John B.	Ward, Mrs. Thomas	Wiebusch, Chas. F.
Turnure, Lawrence	Warner, Lucien C.	Williams, George G.
Tuttle, Nathaniel	Watson, Miss Emily A.	Wilson, John
Twombly, H. McK.	Watson, Walter	Wing, John D.
Twombly, Horatio N.	Weatherbee, Mrs. E. H.	Witherbee, Frank S.
Valentine, Mrs. Lawson	Webb, W. H.	Wood, Mrs. George
Van Brunt, Cornelius	Weed, Benjamin	Worthen, W. E.
Van Brunt, Hon. C. H.	Weekes, John A.	Wray, Mrs. Cornelia S.
Van Norden, Warner	Weissman, L.	Wright, Benjamin
Van Slyck, W. H.	Welch, Peter A.	Wynkoop, Francis S.
Van Wickle, A. S.	Wetmore, Dr. John McE	Youmans, Daniel D.
Van Winkle, Edgar B.	Wheelock, Dr. W. E.	Zabriskie, Andrew C.
Van Winkle, Miss E. S.	Wheelock, Geo. G., M.D.	Zickel, S.
Vandervoort, W. L.	Wheelock, Wm. A.	Zollikoffer, O. F.
Veit, Richard C.	Whipple, Leander E.	

DECEASED MEMBERS,

1893.

Allen, Chas. S., M.D.,	Day, Henry	Mehler, Eugene
Auchmuty, R. T.	DeForest, Chas. T.	Peters, Rev. T. M.
Bernheimer, Isaac	Dickey, Hugh T.	Russell, Henry E.
Burrill, John E.	Fish, Hon. Hamilton	Schell, Edward
Campbell, George W.	Halsted, Robert	Spicer, Elihu
Cauldwell, William A.	Hendricks, Joshua	Tucker, John C.
Combe, William	Hoffman, Paul	

In Memoriam.

During the past year the Trustees have been called to mourn the loss of two of their late associates on this Board,

**BENJAMIN H. FIELD,
CHARLES G. LANDON.**

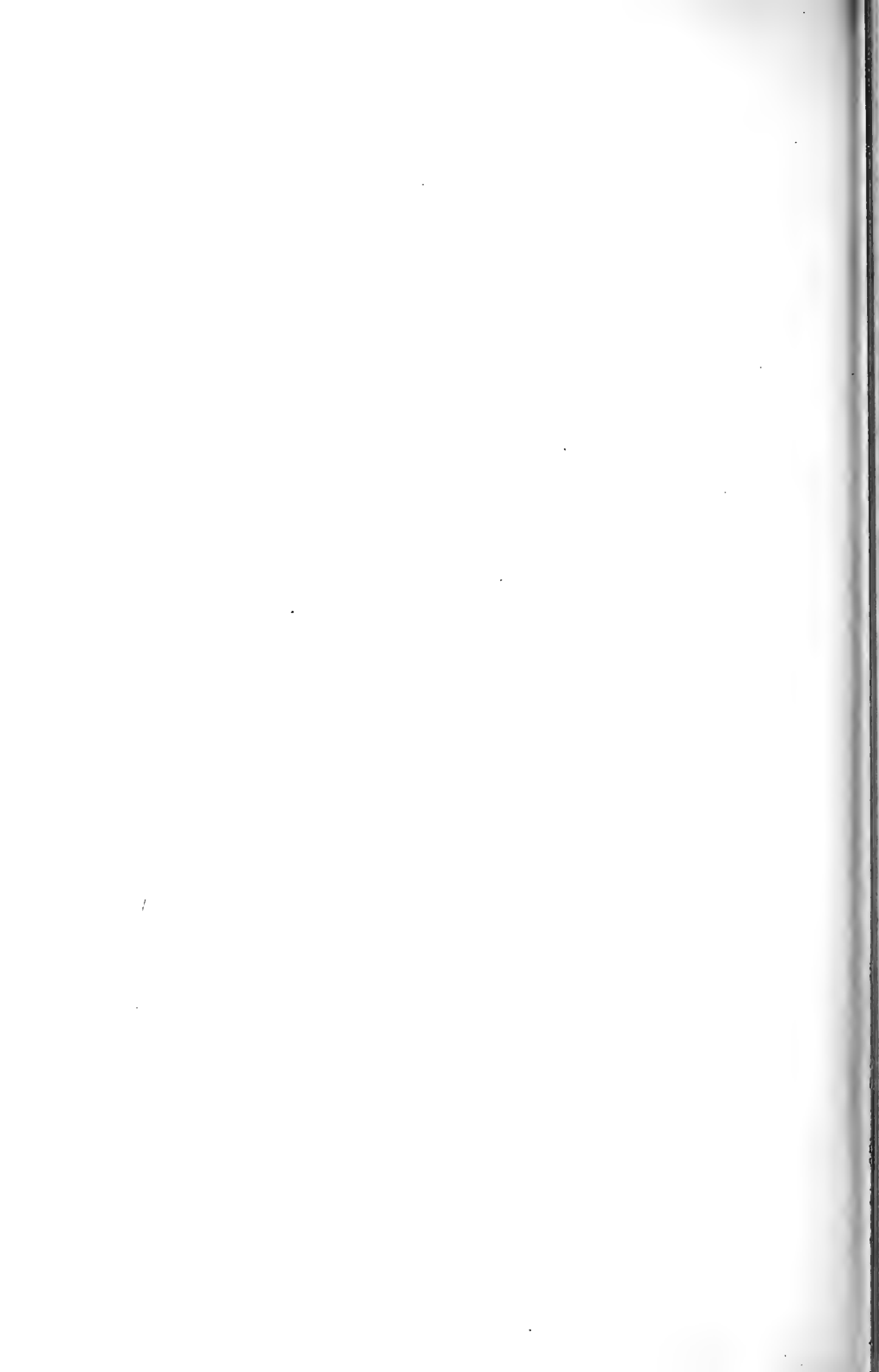
At the regular quarterly meeting of the Board of Trustees of the AMERICAN MUSEUM OF NATURAL HISTORY, held May 8th, 1893, the following minute was unanimously adopted and ordered to be entered upon the records :

Since their last regular meeting the Trustees have been called to mourn the decease of two of their valued and honored associates, Mr. BENJAMIN H. FIELD, who died March 17th, 1893, and Mr. CHARLES G. LANDON, whose decease followed on the 24th day of the same month.

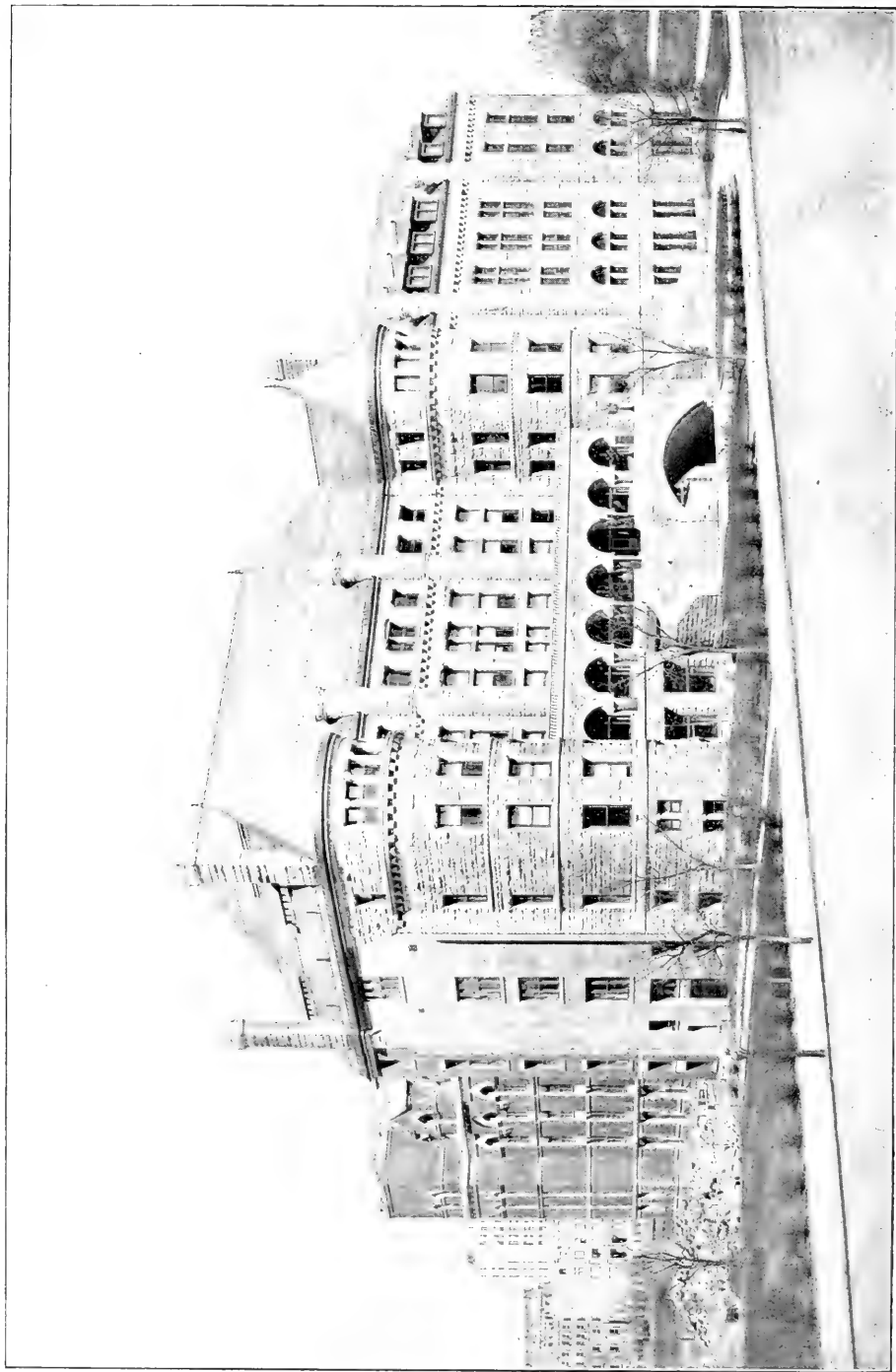
Mr. FIELD became a Trustee of the Museum at the date of its incorporation, he having been a Charter Member. He took an active interest in the meetings of the Board, seldom failing to be present, and his cordial approval of the work of the Museum was shown by the frequent visits he made to its halls.

Mr. LANDON became a Trustee at the Annual Meeting in 1882, and was elected at that time a member of the Auditing Committee, and in the year 1886 was chosen a member of the Executive Committee ; and, with the exception of an interval of two years, served continuously on both committees with great acceptance and fidelity until his decease.

The Trustees desire to enter upon these minutes an expression of their high appreciation of the character and worth of their late colleagues ; of the earnest and untiring interest of each in the growth and prosperity of the Museum ; and of the personal esteem and affection in which the members of this Board will ever cherish the memory of their earnest coöperation in the development of this institution.







L. C. LAUDY, PHOTO.

VIEW OF MUSEUM BUILDING, WITH EAST WING, 1894.

THE
AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and 8th Avenue.)

ANNUAL REPORT OF THE PRESIDENT,
ACT OF INCORPORATION,
CONSTITUTION, BY-LAWS AND LIST OF MEMBERS
FOR THE YEAR 1894.



NEW YORK:
PRINTED FOR THE MUSEUM.

1893.

WM. C. MARTIN PRINTING HOUSE

NO. 111 JOHN STREET

NEW YORK

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1895.

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ANSON W. HARD.	

* Died February 14, 1895.

† Resigned February, 1895.

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FOR 1895.

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PROF. FREDERIC W. PUTNAM,
Curator of the Department of Anthropology.

MARSHALL H. SAVILLE,
Assistant Curator.

W. BEUTENMÜLLER,
Curator of the Department of Entomology.

A. WOODWARD, PH.D.,
Librarian.

JOHN ROWLEY, JR.,
Taxidermist.

WILLIAM WALLACE,
Superintendent of Building.



TWENTY-SIXTH ANNUAL REPORT.

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

The following presents a statement of the operations and the progress of the Institution for the year 1894.

FINANCES.—Attention is directed to the Treasurer's report, which shows in detail the receipts and disbursements during the year. It will be observed that a deficit of \$3086.92, accrued in maintaining the Museum proper, was met by a transfer of that amount from the Endowment account.

NUMBER OF VISITORS.—The attendance at the Museum on the free days and Sundays has in no wise been lessened. The record shows a total of 623,151 visitors.

ENLARGEMENT OF THE BUILDING.—Under the terms of Chapter 448 of the Laws of 1893, which authorized the provision of a further addition to the Museum, the Trustees had plans prepared covering the erection of the new wing, and the alterations or repairs to the old building made necessary by reason of such addition. Subsequently a further sum was authorized by Chapter 63 of the Laws of 1894, for the purpose of equipping the new building. The total amount granted was \$550,000, and the closest scrutiny was used by the Park Commissioners in their consideration and approval of the plans. Bids were advertised for in the manner provided by statute, and a full opportunity was offered to all persons desiring to compete. The contracts were let in each instance to the lowest bidder, and it is a reason for congratulation alike to the city and Trustees that the work will be completed within the appropriation. The cases and fittings are of the most modern and approved construction, combining the best appliances to make them moth and dust proof. Symmetry and artistic design has not been omitted in the forms adopted, and every point has been considered which would tend to provide the best results attainable. It is due to the city that the construction of cases shall meet all the requirements requisite for a proper display of the specimens, at the same time keeping in view the necessity for a scientific arrangement. It may be observed that an attractive and well-arranged display always enlists the interest of our citizens, for whom the Museum is maintained and its growth fostered.

A brief statement serves to explain the increase of space for exhibition afforded by the new wing now approaching completion, and which it is expected will be opened to the public early in the autumn. The building, from cellar to roof, comprises six stories, exclusive of the attic, and is 127 feet in height, with a frontage on Seventy-seventh Street of 157 feet, and a width of 66 feet. The cellar is made remarkably light by the provision of wide and deep areas the entire length of the building in front and rear; this part of the building will be used for the storage of unpacked material. The building throughout is absolutely fireproof, the floors being finished in tile and marble mosaic of bright and attractive patterns. Mahogany has been used in the construction of the cases, as being the most desirable wood for museum fittings. The ground floor will contain the Jesup Collection of Woods, with ample space for the arrangement of the water colors over each specimen. The large mammals and the Bison and Moose Groups will occupy the first floor. The Gallery floor is allotted for the display of small mammals, the insect collection, and the overflow of material from the bird hall. The second floor will provide the space for the exhibition of specimens belonging to the new Department of Vertebrate Palæontology, furnishing a floor surface of 9500 square feet. Study rooms, storage apartments, and space for the keeping of the study material and duplicates, have been reserved on the top floor.

The construction of galleries in the Curators' offices in the old wing has doubled the area for the storage of specimens. Moth-proof cabinets have also been provided for the careful preservation of the specimens, and many other improvements have been added for carrying forward the work of the several departments.

During the year the Park Commissioners caused the grading and drainage about the old building to be very much improved, and have replaced the board walks with asphalt across Manhattan Square and the south front of the structure.

Attention is called to the accompanying illustrations, one showing the condition of the building and the grounds in the year 1878; the south façade in 1893; and the same view with the east wing at the close of 1894.

EMMONS' SECOND ALASKAN COLLECTION.—The preceding report stated that this collection had been placed on temporary display at the Museum pending the negotiations for its purchase. The efforts were successful, resulting in an arrangement whereby the Trustees are to pay a stipulated amount annually for five years. The first payment was met by subscriptions from a number of the Trustees, and it is gratifying to report that a friend of the Museum has contributed the amount required to meet the second annual installment. This collection, with the first Emmons Collection mentioned in the report of 1888, together with the

Bishop and other collections owned by the Museum, gives to the public and science what may be considered the most complete history of the life, habits and characteristics of the native tribes of that portion of the Continent.

PERUVIAN EXPEDITION.—Upon the termination of the second year of Dr. Bandelier's researches in Peru, under the auspices and personal support of Mr. Henry Villard, the Trustees assumed the expense of continuing the services of the explorer until April, 1896. In reciprocation of this action, Mr. Villard has generously donated to the Museum all of the material gathered by Dr. Bandelier up to April 1, 1894. It is pleasing to announce that the subsequent receipts have been numerous and of great interest. A large number of objects are now deposited at La Paz, Bolivia, awaiting a cessation of the insurrection in Peru before they can be transported safely to the port of shipment. The revolution in Peru has made it advisable for Dr. Bandelier to transfer his work of exploration to the Islands of Lake Titicaca, Bolivia, which are equally rich in archæological material. It is the expectation that his work during 1895 will yield far more important results than any of the preceding years. His notes and charts are voluminous, and greatly enhance the scientific value of the collection.

Two important shipments received from Mr. Bandelier during the past year have been from Arica, a coast town now occupied by Chili, and from the vicinity of the ruins of Tiahuanaco, next to Cuzco, the most famous ruin in South America.

Among the specimens obtained from Arica was a mummy elaborately dressed, having a complete fishing outfit, and other implements; but by far the most important object was a bag containing a brass thimble, a piece of paper in which was wrapped several brass pins, and a folded document in a very fragile condition. This paper was printed in old Spanish text, and is a Crusader's Bull, issued by Pope Gregory XIII, and signed by a priest. In the text occurs the date, February 20, 1578.

The collection from Tiahuanaco is extremely important, but little material from this region has found its way out of the country owing to the superstition of the Indians.

LUMHOLTZ EXPEDITION.—Fair success has attended the work of Dr. Carl Lumholtz in his investigations of the Indian tribes of that part of the Sierra Madre Mountains extending through Central and Southern Mexico. This field is not as rich for the explorer as Peru and Bolivia, inasmuch as the Government of Mexico is very persistent in refusing to permit the exhumation of prehistoric objects for removal from the country. Efforts have been made to effect a modification of this regulation, but as the restriction exists by virtue of legislative enactment it is unlikely that any privileges can be secured except with a hope of a division of results. The material gathered by Dr. Lumholtz

will therefore be more of an ethnological character, but valuable nevertheless. In the prosecution of this work the Trustees are indebted to the generous assistance of Mr. Austin Corbin and Mr. C. Vanderbilt.

Reference is made somewhat in detail to the preceding three collections, the Alaskan and the Mexican, which are ethnological in character, and also to those from Peru and Bolivia, which pertain to archæology, to better exemplify the rapid increase of this already valuable and instructive material.

As before stated, we have in sequence the two collections from Alaska, purchased from Lieutenant Emmons; the Bishop Collection from British Columbia, donated by Mr. Heber R. Bishop; the Sturgis Collection from the Pacific Islands, purchased from Mr. Appleton Sturgis, and the collection from the Pacific Coast, bought of Mr. James Terry. Following these are the collections from Arizona and Mexico, with the antiquities gathered in Peru and Bolivia.

The absence of any important amount of material from Central America interrupts the sequence of countries, but it is hoped that we shall soon receive from Honduras much that is needed to supplement these collections, contributions in aid of this result having been made by one of our Trustees.

To-day the study of the human races—those of the remote past and those approaching extinction—is engaging the keenest attention of scientists and the awakened interest of the public. Some of the large museums in Europe and in our own country are energetic in their efforts to enlarge and complete their collections pertaining to anthropology. Expeditions are fitting out, means for the prosecution of research are secured, the magazines, the daily and weekly press are educating the people to an appreciation of the eminent importance of this domain of the world's history, and the work of investigation has expanded to fields hitherto untouched. The plans outlined for the future development and enlargement of this department by the Trustees will, if carried forward, insure it a prominence exceeded in few similar institutions in the world. This department now affords the student ample material for reference, and will be a most valuable educational factor in teaching the present and future generations the life of man in the near and remote past.

SUMATRA EXPEDITION.—Early in the autumn of this year Mr. Rudolph Weber departed for an extended stay on the east coast of Sumatra to make collections of the fauna of that island. Reports received from him are most gratifying, and the opportunity has been improved to secure at a nominal cost rare specimens at present unrepresented in the collections. Mr. Weber has been commissioned to obtain such objects of ethnological interest

as will be desirable in the future work of the Department of Anthropology.

LECTURES.—It is worthy of note that interest has increased in the lectures given during the year. The Columbia College course has been continued. Professor Bickmore delivered the course of lectures to the teachers of the public schools in conformity with the agreement with the State Superintendent of Public Instruction, and repeated a number of these lectures on Tuesday evenings to the members of the Museum. Lectures have also been given by the Linnæan Society in coöperation with the Museum. Six courses of lectures are in progress Saturday afternoons, delivered by the Assistant Curators on subjects pertaining to the collections in the several departments. All of these lectures have been attended by large and appreciative audiences; the influence of the Museum is thereby enlarged and fostered, and the educational value of the collections enhanced. The results have fully justified the hopes and the expectations expressed at the time they were organized. The attendance of pupils accompanied by their teachers is increasing, and every facility is extended by the Curators to aid them in acquiring the knowledge which the specimens impart.

MEETINGS OF SCIENTIFIC SOCIETIES.—The annual reception of the New York Microscopical Society, and the yearly meeting of the American Ornithologists' Union, were held at the Museum, and largely attended. Several other scientific bodies now regularly convene at the Museum, ample facilities being accorded for this purpose.

JESUP COLLECTION OF NORTH AMERICAN WOODS.—A small number of rare species, hitherto unknown, have been added to this collection at the expense of the donor, and which were found growing in localities previously unexplored by collectors. These were gathered under the supervision of Prof. C. S. Sargent, through whose care and experience this collection has been made valuable and instructive alike to the artisan and the scientist.

GEOLOGICAL DEPARTMENT.—About three-fourths of all the Palæontological Collection has been labeled, and a catalogue of the type specimens has been prepared.

MINERALOGICAL COLLECTION.—The cataloguing and numbering of this collection is now so far progressed that it will be completed by July of 1895. Since the purchase of the Spang Collection the mineralogical series has been rearranged and renumbered.

A large geode of Velvet Malachite and some beautiful groups of Stalactites have been received from the Bisbee Mines, donated by the Copper Queen Consolidated Mining Company. They have also added a superb mass of Malachite and Azurite com-

bined, as well as some smaller specimens of similar material, which was exhibited by them in their attractive display at the Columbian Exposition. Most of these objects have been placed in a special case prepared for them.

THE J. P. MORGAN GEM COLLECTION.—This collection has been enriched by a number of additions by purchase and donation within the year. It is promised that during the coming year a popular descriptive catalogue of this collection will be prepared and published.

ECONOMIC COLLECTION.—Important additions of gold, silver and copper ores from Arizona have been contributed by Mr. T. R. Sorin; and several blocks of silver ore from Butte, Montana, have been presented by J. B. Haggin, Esq., and need a space where they, with the building and ornamental stones, can be properly displayed as an economical section of the Geological Department.

D. JACKSON STEWARD COLLECTION.—The marine and other shells donated to the Museum by Mr. D. Jackson Steward have been mostly identified, labeled, arranged, and catalogued.

THE HAINES COLLECTION OF SHELLS has been fully examined and compared with the catalogues furnished by Mr. Haines, and the purchase of this most valuable collection will probably be consummated early in 1895. It consists of marine, land and fresh-water shells, and will add very materially to the number of forms now in the Museum, and make our collection one of the noted collections of the country, both as to the number of species as well as the beauty of the specimens, and of great value to the scientific world.

Quite a large collection of shells, numbering several hundred specimens, as well as many other forms of marine life, mostly from the Pacific coast, were received from the estate of the late Capt. Dow.

A valuable collection, of about one thousand specimens of invertebrate fossils from the Coal Measures of Illinois, was lately received from Dr. R. D. La Coe, of Pittston, Pa. Other donations and accessions will be found entered in the appendix under the head of Donations.

INVERTEBRATE ZOÖLOGICAL COLLECTION.—Professor Verrill was engaged to identify some undetermined material which remained unfinished at the close of last year. Many of the alcoholic specimens have been placed in new and commodious jars with clean alcohol, and present a most attractive appearance.

DEPARTMENT OF MAMMALS, BIRDS, REPTILES AND FISHES.—The past year has been marked by an unusual increase in the

amount of material received, partly through donations, partly by purchase and exchange, but quite largely through Museum expeditions. Among the noteworthy gifts is a collection of 2500 Indian birds, presented by Messrs. J. M. Constable and William E. Dodge; the Indian elephant "Tip," presented by the Commissioners of the Department of Public Parks; the Chimpanzee "Chiko," a young Indian elephant, a Tapir, and various deer and antelopes, the gift of Mr. James A. Bailey; and a valuable collection of Costa Rica mammals presented by the National Museum of Costa Rica. Professor L. L. Dyche, of the University of Kansas, donated about one hundred specimens of Kansas mammals. A very finely mounted Tarpon was received from A. M. McGregor, Esq.; and a valuable collection of Panama fishes from Mrs. Elizabeth K. Dow. All the collections are in thoroughly safe condition, as regards their preservation. A local collection of New York Birds has been completed, and each of the specimens, 300 in number, supplied with special labels. A collection of the nests and eggs of New York birds has also been placed on exhibition. These two exhibits prove of exceptional interest to visitors and local students, and are constantly consulted by persons interested in the study of our local birds. A special guide to these collections has been issued by the Museum, and proves of great service to such visitors.

DEPARTMENT OF ENTOMOLOGY.—Twice during the year the entire material has been inspected and poisoned, and is in good condition and free from pests. The Edwards Collection was transferred from the storage room to moth-proof boxes in the gallery of the Curator's room and is now available for study.

Nearly 1000 of the specimens collected within a radius of thirty miles from this city have been furnished with locality labels, and will be utilized as a local collection of New York insects. Considerable time has been devoted to the selection of material for display in the new hall.

DEPARTMENT OF MAMMALIAN PALÆONTOLOGY.—The increase and development of this department fully equals that of the preceding year. The work of the past year has been carried forward in four distinct formations; the White River district, South Dakota; the Hat Creek Basin, Nebraska; the Uncompaghe Reservation, Utah; and Loup Fork formation, Kansas. Four hundred specimens were secured in the first two localities, among which were six complete skeletons. The greater part of this material is very desirable for exhibition, aside from its value to science. The Loup Fork expedition yielded about 250 specimens. From the Uinta Basin only 142 objects were secured, but the outcome is gratifying nevertheless when it is considered that several months elapsed from the time of arrival at this point before permission could be obtained from the Department of the Interior to enter

the Reservation for the purpose of collecting. Had the requisite authority been promptly accorded, the work would have yielded a much greater acquisition of material. Efforts are being made to secure by purchase for this department the famous collection of North American Fossil Mammals gathered by Prof. E. D. Cope.

DEPARTMENT OF ANTHROPOLOGY.—During the latter part of the year the title of this division of the Museum was changed to that above noted, as more fully defining the character and scope of the collections. It is a cause for regret that, owing to a lack of space, the collections in this department are not satisfactorily exhibited. This difficulty must continue until means are provided for the erection of another addition to the building.

The material belonging to this department, with that to be received from the expeditions in Peru, Mexico and Honduras, will, if properly displayed, fill one entire wing on the west side of the main building, corresponding with the addition on the east side, now about completed. Efforts will be made to obtain, before another year, the necessary funds from the city to erect and equip such a building.

LIBRARY.—The report of the Librarian announces an increase of 1149 volumes during the year, making the total number at the close of the year, 29,231 volumes, all relating to Natural History. Donations of rare and desirable publications were received from the Hon. R. P. Flower, Messrs. Samuel P. Avery, John J. Crooke, D. M. Johnson, His Excellency Porfirio Diaz, President of Mexico, Mr. James M. Constable, and the President.

PUBLICATIONS.—Besides the Guide to the Local Collection of Birds, the Museum has published the past year an additional volume of about 400 pages, with eleven plates and twenty-five cuts in the text. It contains twenty-eight articles, representing four of the departments of the Museum, as follows: Department of Geology, etc., one article with eight pages and one plate; Department of Mammalian Palæontology, three articles with seventy pages, three plates and eighteen cuts; Department of Entomology, four articles with eighty-four pages, six plates, and eleven cuts in the text; Department of Mammalogy and Ornithology, ten articles with 180 pages and one plate. It was the plan of the Committee of Publication to issue during the year another number of the Memoirs, but unforeseen difficulties were met with which rendered it impossible. At least one number of the Memoirs should be published each year. The first was brought out in 1893, and two should appear in 1895 to make the average one a year for 1893 to 1895.

The Bulletin, published under the supervision of the Curators, forms an important contribution to science, and brings the Museum into close relations with all the scientific institutions of this country and Europe.

ENDOWMENT FUND.—The need of a greater income for the purchase of material, suggested in the report of the preceding year, and the importance of this fund, may with propriety be again urged for consideration. Prior to the year 1888 the comparatively slow growth of the Museum did not demand any radical changes in the exhibition halls. The acquisitions were, as a rule, fewer in number and of less importance than those of subsequent years. Since the year stated many large and widely-known collections have come upon the market, and the Trustees have felt the great importance of securing these for the Museum.

NEED OF ADDITIONAL EXHIBITION SPACE.—The growth of the collections has always exceeded the facilities for their display. We, therefore, confidently assume that this condition may be expected to continue, and perhaps it is desirable that it should. It would not have seemed safe to predict six years since that the Museum would hold the rank that it does to-day, and yet what is true of the past may with confidence be assumed for the future. The series of views of the building introduced in this report amply demonstrate the gratifying development of the Museum ; its progress could not be shown more graphically. With the record of the past before us, it is evident that the erection of a west wing must be provided for early in the coming year, in order that the specimens now stored may be displayed for the benefit of the public, whose growing interest in the institution is manifest. The primary intention of the Trustees, as stated in its articles of incorporation, was to create a museum for the education, amusement and instruction of the public. This object has always received the first consideration at their hands, without their losing sight, however, of the requirements of that portion of the community interested in scientific research.

An expression of my appreciation is due to the Trustees for their liberal assistance and earnest coöperation in the work of the year. To the Curators and others in charge of the divisions of the Museum and to all of the employees, my thanks are due for their faithful services in carrying out the details of the work intrusted to them.

MORRIS K. JESUP, *President.*

NOTE.—Since the preparation of this report the Trustees caused bills to be introduced in the Legislature conferring power on the city authorities to appropriate five hundred thousand dollars for a further enlargement of the Museum, and for an increased appropriation of twenty thousand dollars annually, for maintenance. The efforts of the Trustees met with the cordial support of the public press of our city, and these measures, known as Chapters 235 and 236 of the Laws of 1895, passed the Legislature unanimously. They subsequently received the approval of His Honor, Mayor Strong, and His Excellency, Governor Morton. The erection and equipment of another wing will provide the facilities for carrying forward the plans outlined by the Trustees for the upbuilding of a great department of Anthropology.

Dr.

THE AMERICAN MUSEUM OF NATURAL HISTORY

To Balance January 1, 1894..... \$30,627 24

MAINTENANCE.

EXPENDITURES.

To Lecture Department.....	\$7,189 60	
Expressage.....	616 26	
Salaries.....	30,381 91	
Labor.....	23,156 03	
General Expense.....	2,474 38	
Printing.....	61 45	
Postage.....	218 70	
Repairs.....	609 38	
Coal.....	4,484 48	
Supplies.....	2,269 54	
Labels.....	480 10	
Stationery.....	777 25	
Fixtures.....	1,287 91	
Interest on Dr. Balances.....	948 48	
Poison.....	953 87	
Special Cases.....	18,614 62	
Traveling Expense.....	39 08	94,563 04
		<u>\$125,190 28</u>

RECEIPTS.

Department of Public Parks, inclusive of the refund of \$48,103.36*.....	\$113,103 36	
State Superintendent of Public Instruction.....	9,000 00	
Annual Members, transferred from Endowment Account.....	3,086 92	\$125,190 28

<hr/>		
<hr/>		<u>\$125,190 28</u>

Examined and approved, } THEO. A. HAVEMEYER, } Auditing Committee.

Correct.—J. W. EDWARDS, Auditor, Feb. 6, 1895.

* This amount covers advances made by the Trustees during preceding years, for the provision of cases and fixtures, and repairs to the building.

ENDOWMENT.

EXPENDITURES.

To Minerals.....	\$225 12	
Department of Mammalian Palæontology.....	4,515 27	
Department of Ornithology.....	479 40	
Labels.....	113 19	
Bulletins.....	2,662 95	
Terry Collection.....	3,534 01	
Mammals.....	1,318 17	
Emmons Second Collection.....	5,000 00	
Kunz Collection.....	600 00	
Department of Anthropology.....	170 05	
Library.....	775 64	
Mammal Groups.....	266 51	
Appleton Sturgis Collection.....	4,169 38	
Skeletons.....	662 81	
Lumholtz Expedition.....	3,030 00	
Department of Geology.....	41 00	
Traveling Expense.....	19 00	
Special Account, Groups.....	85 00	
Department of Conchology.....	20 90	
Peruvian Expedition.....	3,285 73	
Annual Reports.....	403 18	
Edwards Entomological Collection.....	600 00	
Department of Entomology.....	53 10	
Guides.....	383 75	
Sumatra Expedition.....	153 19	
Insect Groups.....	65 02	
Spang Collection.....	1,000 00	
Annual Members, transferred to Maintenance Acc't,	3,086 02	\$36,720 19
Balance January 1, 1895.....		3,684 11

\$40,404 30

RECEIPTS.

Guides.....	\$168 30	
Life Members: Mrs. Wm. Combe, Franklin D. Roosevelt.....	200 00	
Annual Members.....	6,080 00	
Interest on Invested Funds.....	17,100 00	
Trustees, Subscriptions in aid of the purchase of the Emmons Collection.....	4,200 00	
Admission Fees.....	1,124 00	
Cornelius Vanderbilt, for Lumholtz Expedition..	1,000 00	
Austin Corbin, ..	1,000 00	
Miss Phebe Anna Thorne, for Emmons Collection,	5,000 00	
Patrons: Elbridge T. Gerry, Anson W. Hard, Gustav E. Kissel.....	3,000 00	
Prof. Henry Fairfield Osborn, Subscription.....	1,500 00	
Collecting Permits.....	32 00	\$40,404 30
		\$40,404 30
Balance January 1, 1895.....		\$3,684 11

[E. & O. E.] NEW YORK, December 31, 1894.

CHARLES LANIER, Treasurer.

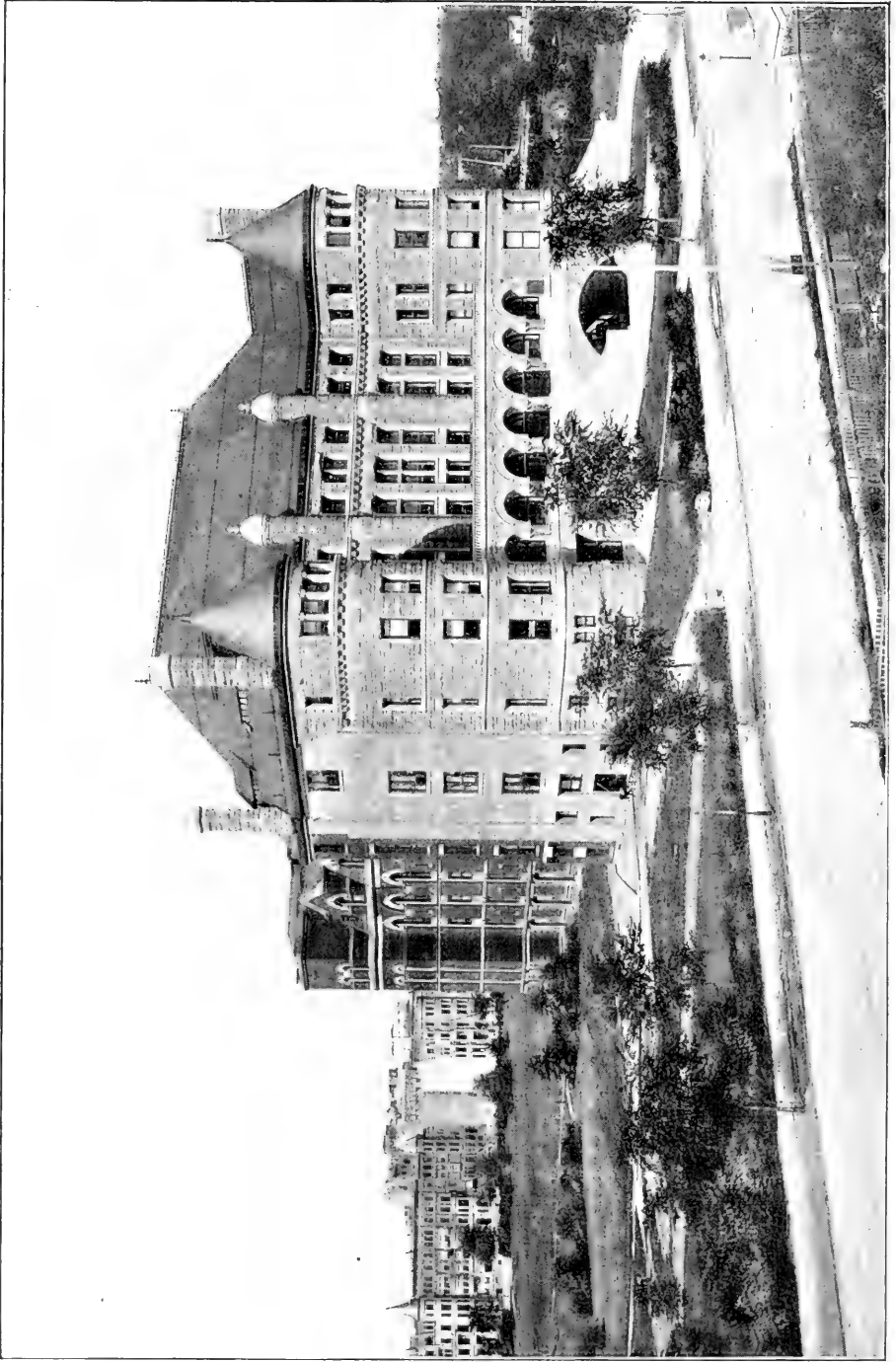
FORM OF BEQUEST.

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

.....

.....





L. C. LAUDY, PHOTO.

VIEW OF BUILDING, 1893. SOUTH FRONT.

LIST OF ACCESSIONS, 1894.

DONATIONS.

LIBRARY.

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Eleventh Annual Report of the State Geologist, N. Y. 1891.
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Raccolta di Ercolans, di Pompei, e di Stabia. By Albate.
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Geo. Washington. 1892.
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Alphabetical List of Patentees and Inventions. 1893-'94.
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Essai sur la Physionomie des Serpens. By H. Schlegel. 2 vols. and
Atlas. 1837.
A Cabinet of Quadrupeds, consisting of Highly Finished Engravings.
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Ornithophonia sive Harmonia Melicarum Avium. By N. Bærii. 1695.
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vancement of Science. 1833.
Twenty-one Essays on various subjects, Scientific and Literary. 1865.
Elementa Botanica. By N. J. de Necker. 1790.
Almanach Hachette petite Encyclopédie populaire de la Vie Pratique.
1894.
Proceedings of 11th Annual Meeting Lake Mohonk Conference of
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Maison Rustique du xix^e Siècle. Encyclopédie d'agriculture pratique.
By M. E. Bailly. 5 vols. 1836.
Illustrations of Botany and other branches. Natural History of
Himalayan Mts., and Flora of Cashmere. By J. F. Royle. Parts
I-VI. 1833-1835.
Flowers of Loveliness. 12 Groups of Female Figures, emblematic of
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Fishes of the Tropics. The Bahamas chiefly. Colored. 17-
Pomona Britannica. Collection most esteemed fruits, etc. By G.
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Hooker. 1851.
Some of my Bush Friends in Tasmania, Native Flowers, etc. By
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 Atlas of the War of Rebellion. Parts 24-32. 1894.
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 Observations on Genus Unio. Vols. V, VI, 1, 2; VII, 1, 2; VIII, 1, 2; IX, X, XII. By Isaac Lea. 7 vols.
 Novitates Conchologicae, 37-45, 48-58 Lief. By L. Pfeiffer, 3 vols. 1854-1869.
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 Etudes sur les Mollusques Terrestres et Fluviatiles. Tome Première. Sept. Parte. Tome II. Sept. Pt. 1870, 1877-1878, 1880.
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 Monographia Pneumonopomorum Viventi. Sup. Prim. and Sec. 2 vols. 1858-1865.
 Monographia Auriculaceorum Viventium. By L. Pfeiffer. 1856.
 Martini und Chemnitz. 17 parts. 1845-1862.
 " " 2 vols. 1846.
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 A Report on the Invertebrata of Mass. By A. A. Gould. 1841.
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 The Terrestrial Air-Breathing Mollusks of U. S. By A. Binney. 3 vols. 1851-1859.
 Remarks on Certain Species of N. A. Helicidae, etc. By Thos. Bland. 1858.
 A Conchological Manual. 4th Edit. By G. B. Sowerby. 1852.
 Catalogue of Shells collected at Panama, with Notes, etc. By C. B. Adams. 1852.
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- D. M. JOHNSON, Pelham Manor, N. Y.
 Report, Superintendent U. S. Coast Survey. 1852-1865. 13 vols. 1853-1867.
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 Report, Commissioner of Agriculture. 1862-1871, 1874-1883, 1885. 21 vols.
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 Report of Franklin B. Hough upon Forestry. 1878.
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 Outline of Geology of Globe and U. S., with 2 Geological Maps. By E. Hitchcock. 1854.
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- GEO. N. LAWRENCE (the author), New York City.
 On the Validity of *Chrysotis canifrons*. 1893.
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 Synopsis of N. A. Fresh Water Leeches. 1874.
 List Deep-Water and Surface Mollusca from East Coast U. S.
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 Notes on Radiata in Museum of Yale College. 1871.
 New England Annelida. Historical Sketch, etc. Part I. Plates
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 Discovery of an Octopus inhabiting Coast of New England. 1873.
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 Additional Observations on Parasites of Man and Domestic Animals.
 Report. Collections Fresh Water Leeches during 1872, '73 and '74.
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 Partial List of Pamphlets and Scientific Papers. 1880-'85.
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 Explorations of Casco Bay, by U. S. Fish Commission in 1873.
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 Occurrence of Fossiliferous Tertiary Rocks on Grand Bank. 1878.
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 Occurrence at Newport. Two little specimens European Shells.
 Description of two species Octopus from California. 1883.
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GEOLOGICAL DEPARTMENT.

- CHARLES J. BATES, Englewood, N. J.
15 Specimens of Coal Plants from Dubois Co., Ind.
- J. J. CROOKE, Giffords, Staten Island, N. Y.
A number of fossils of various formations, including Hudson River to Tertiary.
- EUGENE F. DU BOIS, West New Brighton, Staten Island, N. Y.
A perfect young specimen of *Asaphus gigas*, from Trenton Falls, N. Y.
- F. R. FISHER, New York City.
A tooth of *Equus fraternus* Leidy (fossil horse), from Charleston, S. C.
A palatal plate of *Mylobates holmesi* (fossil ray), from Charleston, S. C.
- E. O. HOVEY, New York City.
15 Specimens of *Belemnites clavatus* from Lias Basin near Langenbrucken, Baden, Germany.
10 Specimens of Clay concretions from Long Island Sound.
6 " " Chert from Cambrian ? and Lower Carboniferous Strata of Missouri and Arkansas.
- DR. O. P. HUBBARD, New York City.
2 Fragments of leg bones of some quadruped, from Thetford, Vt., and some beaver-gnawed sticks.
- R. D. LA COE, Pittston, Pa.
A quantity of invertebrate fossils from the Carboniferous limestones and Coal measures of Illinois (nearly 1000 specimens).
- J. & R. LAMB, 59 Carmine Street, New York City.
2 Photographs of Eagle Rock Quarry, Orange, N. J.
- DR. J. S. McLAURY, 236 West 127th Street, New York City.
A fragment of the stem of a fern. Catskill Group, northeastern part of Delaware Co., N. Y.
- ADOLPH MUINECKE, Milwaukee, Wis.
A glaciated block of Niagara limestone from foot of 27th Street, Milwaukee, Wis.
- WILLIAM NIVEN, New York City.
1 Block of Crinoid columns from the Burlington limestone at Burlington, Iowa.
- PROF. R. P. WHITFIELD, New York City.
Many Post-Pliocene fossils from Osprey, Fla.
135 Cretaceous Lower Green Sand Marl fossils, from Atlantic Highlands, N. J.
- JOSEPH WILLCOX, Philadelphia, Pa.
19 Species of Tertiary fossils—64 specimens, as follows :
- | | | | | |
|---|--------------------------------------|---------------|-----------------------|-------|
| 4 | Valves of <i>Pecten exasperata</i> , | Pliocene, | Caloosahatchie River, | Fla. |
| 3 | <i>Mitra Carolinensis</i> , | Con. Miocene, | Duplin Co., | N. C. |
| 1 | <i>Voluta Trenholmii</i> , | " | " | " |
| 1 | <i>Fasciolaria rhomboidea</i> , | " | " | " |
| 1 | <i>Galæodia Hodgei</i> , | " | " | " |
| 1 | <i>Cypræa Carolinensis</i> , | " | " | " |
| 1 | <i>Ptychosalpinx</i> sp. ?, | " | " | " |
| 1 | <i>Terebra unilineata</i> , | " | " | " |

JOSEPH WILLCOX, Philadelphia, Pa.—*Continued.*

- 2 *Conus planiceps* Heil., Miocene, Ballast Point, near Tampa Bay, Fla.
 6 *Pyrazisinus campanulatus* Heil., Miocene, “ “ “ “ “ “
 5 *Turritella Tampa* Heil., “ “ “ “ “ “
 6 *Bulimulus Americanus* Dall., “ “ “ “ “ “
 6 *Helicina Ballista* Dall., “ “ “ “ “ “
 7 Fragments *Helix crusta* Dall., “ “ “ “ “ “
 7 “ *Strophia anodonta* “ “ “ “ “ “
 1 *Epidromus lanceatus* Mke. Pliocene, Shell Creek, Fla.
 5 *Turritella subannulata* Heil., “ “ “ “ “ “
 5 *Turbo rectoqrammia* Dall., “ “ “ “ “ “
 2 *Crucibulum cuniculum* Gmel. “ Caloosahatchie River, Fla.

MINERALOGICAL DEPARTMENT.

CHARLES J. BATES, Englewood, N. J.

A block of drift native Copper from Bremen, Ind.

A piece of artificial Graphite from Burden's blast furnace at Troy, N. Y.

Mrs. HORATIO BROWN, through J. J. Smedberg, 55 West Seventy-third Street, New York City.

1 Small block (paper weight) of Mexican Onyx.

COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz., through Prof. J. Douglass.

1 Large and very handsome slab of crystallized Azurite from Bisbee, Ariz.

2 Specimens of Azurite upon Wad. Detroit, Ariz.

1 Specimen of Cuprite. Detroit, ? Ariz.

1 “ “ Azurite (pale blue) botryoidal. Bisbee, Ariz.

1 “ “ Malachite. Bisbee, Ariz.

COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz., through W. E. Dodge.

2 Large groups of Stalactite. Bisbee, Ariz.

1 Large pocket of Malachite. “ “

1 Plate (rippled and colored) Stalactite. Bisbee, Ariz.

1 Large very ornamental Stalactite. Bisbee, Ariz.

G. S. FELLOWS, through William Niven, New York City.

1 Small specimen of Mexican Onyx. Lower California, Mexico.

JAMES W. GIDLEY, New York City.

A very fine crystal of Gypsum. Little Powder River, east of Black Hills, Dakota.

J. B. HAGGIN, New York City.

4 Specimens of Chalcocite, very rich in metallic silver, from the Anaconda Mine, Butte, Mont.

J. E. HARRISON, 120 Broadway, New York City.

1 Specimen Hydrous Anthophyllite (Amphibole). Hastings Co., Ontario, Can.

1 Specimen Asbestos with Serpentine. Hastings Co., Ontario, Can.

MORRIS K. JESUP, New York City.

1 Large compound crystal of Selenite. Wayne Co., Utah.

- MISS H. L. LAGOWITZ, New York City.
 1 Specimen of Actinolitic Mica Schist, from south side of Seventy-eighth Street near Amsterdam Avenue, New York City.
- MR. KARL LOCH (deceased), through Mrs. Karl Loch.
 26 Specimens of cut Agates for gem case.
 3 " " Agates and Moonstone.
- HON. SETH LOW, New York City.
 A beautiful specimen of Agatized Wood from Apache Co., Ariz.
- WILLIAM NIVEN, New York City.
 1 Round Cabochon of Prehnite, from Paterson, N. J.
 2 Cabochons of Rose Garnet, from Xalostoc, Mexico.
 1 Small slab " " " " " "
 1 Twelve-inch slab of Rose Garnet from Xalostoc, Mexico.
 1 Very perfect Alaskan Garnet, from Alaska.
- EDWARD O'LOUGHLIN, New York City.
 1 Agate (Cabochon).
 1 Amethyst (Brilliant).
- T. R. SORIN, Bisbee, Ariz.
 1 Stalactite (colored), from Bisbee, Ariz.
 A large quantity of Chalcopyrite and Bornite seamed with veins of blue Chalcanthite from the United Verdé Mine, Jerome, Yavapai Co., Ariz.
- D. JACKSON STEWARD, New York City.
 1 Specimen of highly siliceous Slate, from Goshen, Ulster Co., N. Y.
- WILLIAM WALLACE, New York City.
 1 Large Garnet in matrix, from One Hundred and Seventy-seventh Street and Tenth Avenue, New York City.
- WILLIAM WALLACE, JR., New York City.
 A group of Quartz crystals, from High Bridge, N. Y.
- GEORGE R. WIELAND, New York City.
 1 Large block of siliceous Oolite, from State College, Centre Co., Pa.
- E. WILLIS, Charleston, S. C.
 Specimens of Lime Phosphate, from Charleston, S. C.
- WORLD'S FAIR COMMISSIONERS of Arizona, through Mr. T. R. Sorin, Bisbee, Ariz.
 155 Specimens of Gold, Silver, Lead and Copper ores in large masses and fragments, furnished in many instances with details of analysis, and assay value in precious metals. (Mentioned in last annual report.)
- WORLD'S FAIR EXHIBIT COPPER QUEEN CON. MINING CO., Bisbee, Ariz., through W. E. Dodge and Prof. J. Douglass.
 A monumental mass of Azurite and Malachite, from Bisbee, Ariz.
- WORLD'S FAIR COMMISSIONERS of Michigan.
 16 Specimens of Copper Ore, illustrating the occurrence of native Copper. (Mentioned in last annual report.)
- WORLD'S FAIR COMMISSIONERS of the State of Washington.
 30 Specimens of Gold and Silver ore and some specimens of Coal. (Mentioned in last annual report.)

CONCHOLOGICAL DEPARTMENT.

CAPT. DOW (deceased), through Mrs. Dow.

- 110 Lots Bivalve shells.
 11 " Chitons.
 2 Specimens of Brachiopods.
 24 Specimens of Turbo, Trochus, &c.
 25 " Conus.
 109 Species of Achatinella.
 31 " Partula.
 11 " Helicina.
 14 " Cyclostoma.
 10 " Cylandrella.
 3 " Pupa.
 16 " Bulimus.
 54 " Helix, &c.
 13 " Fresh Water Gasteropods.
 16 " Auriculidæ.
 13 " Muricidæ.
 7 " Strombidæ.
 16 " Purpuridæ.
 19 " Cerithium.
 3 " Turritella.
 35 " Columbella.
 17 " Oliva.
 19 " Nassa.
 15 " Mitra.
 4 " Littorina.
 5 " Calyptraea.
 6 " Patelloids.
 18 " Cypræa.
 16 Trays of Nerita.
 61 Miscellaneous shells.

L. P. GRATACAP, Staten Island, N. Y.

About 100 shells from Grand Manan, N. S.

D. JACKSON STEWARD, New York City.

- 2 Specimens *Cardium pseudolima* Lk.
 4 " *Voluta musica*.
 2 " *Cypræa exanthema* (or *Cervus*).
 2 " *Melongena coronata*.
 7 " *Turbo (Collopoma) fluctuatus* Reeve.

R. P. WHITFIELD, New York City.

- 10 Specimens *Arca*, like *A. noæ*; 3 anchored on *Pinna*.
 1 " *Arca lineosa*.
 6 " *Pinna nobilis*.
 5 " *Pinna carolinensis*.
 3 " *Avicula*.
 6 " *Cardium magnum*.
 2 " *Cardium*.
 1 " *Callista gigantea*, very large.
 Many " *Donax variabilis*, &c.
 27 " *Strombus alatus*, 4 with violet mouths.
 2 " *Fasciolaria distans*.
 2 " *Fasciolaria gigantea*, with Operculum.
 3 " *Fulgur perversa*, 2 large and 1 medium size.
 All from Osprey, Fla.

DEPARTMENT OF MARINE INVERTEBRATES.

CAPT. DOW (deceased), through Mrs. Dow.

- 1 Specimen Cuttle Fish.
- 3 " Crabs.
- 2 " Echinoderms.
- 6 " Star Fish (Asterias).
- 1 " Brittle Star (Ophiurian), large.
- 2 " " " small.
- 12 " Ophiurians.
- 3 " Renilla.

WILLIAM DUTCHER, New York City.

- 8 Specimens of rock perforated by *Pholas* and *Saxicava*, from Grand Manan, N. S.

MR. GLENDENIN GRAYDON, through Mrs. F. B. Arnold, 101 West Seventy-eighth Street, New York City.

- 14 Specimens of *Gorgonia* from Santa Cruz Islands, Caribbean Sea.

L. P. GRATACAP, Staten Island, N. Y.

- 38 Specimens Echinoderms.
- 4 " *Pentacta frondosa* Gunner.
- 10 Star Fish. (1 large *Asterias vulgaris*, 2 *Solaster endeca*.)
- 1 Sea Anemone.
- 1 Squid, *Ommastrephes illecebrosus*.
- 1 Crab.
- 2 Hermit Crabs in shells. All from Grand Manan, N. S.

ISAAC GREGOR, Chagrin Falls, O.

- 1 Star Fish, *Pentaceros reticulatus* Gray; with 6 Rays. West Coast of Florida.

E. O. HOVEY, New York City.

- 1 Large mass *Suberites compacta* Ver. A living sponge.
 - 6 Specimens *Chalina arbuscula* Ver.
 - 2 " *Cribrella sanguinolenta* Muller.
 - 2 " *Astrangia Danae* Agassiz.
 - 2 " *Escharella variabilis* Leidy.
 - 1 *Ophiopholis aculeata* Linn.
- All from Long Island Sound directly off the mouth of the Connecticut River.

MRS. DR. PARKER.

- 1 Specimen of *Euplectella* from South Sea Islands.

PROF. R. P. WHITFIELD, New York City.

- 3 Chitinous tubes of a large Marine Worm.
- 2 Large masses of *Vermetus varians* D'Orb.
- 11 Specimens of *Oculina*.
- 2 " Porites.
- 38 " Sponges.
- 1 Star Fish and several Sertularians, from Osprey, West Coast of Florida.

DEPARTMENT OF MAMMALS.

J. A. ALLEN, New York City.

- 1 Wood Rat (*Neotoma pennsylvanica*), from Orange Co., N. Y.

TAPPEN ADNEY, New York City.

- Beaver cuttings, from New Brunswick.

- J. A. BAILEY, New York City.
 1 young Indian Elephant; 1 Chimpanzee ("Chico"); 1 Bactrian Camel; 1 Gnu; 1 Nylghau; 1 Brisa Antelope; 1 Axis Deer; 1 Puma; 1 Tiger; 1 Kangaroo. Total, 10 specimens, received in the flesh.
- A. E. BEACH, New York City.
 1 Prairie Dog, mounted.
- J. P. H. BELL, Gainesville, Fla.
 1 Weasel; 1 Hoary Bat.
- WILLIAM BEUTENMÜLLER, New York City.
 2 Bats.
- C. L. BROWNELL, Nyack, N. Y.
 17 Small Mammals.
- GEORGE R. BURNS, New York City.
 18 Small Mammals.
- CAPT. THOMAS L. CASEY, U. S. A., New York City.
 1 Mouse, from California.
- GEORGE K. CHERRIE, Chicago, Ill.
 42 Small Mammals, from Costa Rica.
- S. H. CHUBB, New York City.
 1 Wood Hare; 1 Albino Rat.
- WILLIAM F. CODY, New York City.
 1 American Bison.
- COLLEGE OF PHYSICIANS AND SURGEONS, New York City.
 1 Capuchin Monkey; 1 Howler.
- JAMES M. CONSTABLE, New York City.
 1 Indian Fruit Bat.
- JOHN L. COX.
 1 Caribou.
- R. L. DITMAR, New York City.
 1 Flying Squirrel, from Florida.
- DEPARTMENT OF PUBLIC PARKS, New York City.
 The Indian Elephant "Tip;" 19 Monkeys, of various kinds, including 3 Baboons; 1 Tiger; 3 Black Bears; 1 Polar Bear; 1 Gray Hound; 2 Foxes; 1 Coyote; 1 Jackal; 4 Civets; 2 young Hyænas; 1 Panther; 1 Ocelot; 3 Raccoons; 2 Coatis; 8 Deer (various kinds); 1 Elk; 1 Bison; 1 Zebu; 5 Goats (mostly Angoras); 4 Sheep; 2 Llamas; 1 Dromedary; 1 Oryx; 1 Leucoryx; 1 Nylghau; 1 Tapir; 1 Paca; 1 Agouti; 2 Armadillos; 2 Opossums. Total, 82 specimens, received in the flesh.
- MRS. ELIZABETH K. DOW, New York City.
 45 Specimens of North American Muridæ, in alcohol.
- PROF. L. L. DYCHE, University of Kansas, Lawrence, Kan.
 80 Small Mammals, from Kansas.
- MRS. GUIDO FURMAN, New York City.
 1 Water Spaniel.
- WALTER W. GRANGER, New York City.
 11 Varying Hares; 3 White-footed Mice; 3 Meadow Mice, from Vermont.
- DR. JUAN GUNDLACH, Havana, Cuba.
 6 Skulls of *Capromys*, from Cuba.

- CARL HAGENBECK, New York City.
1 Indian Porcupine.
- MRS. WILLIAM L. HASKINS, Governor's Island, N. Y.
1 Mounted Elk head, from Nebraska.
- MUSEO NACIONAL DE COSTA RICA, San José, Costa Rica.
54 Small Mammals, from Costa Rica.
- W. A. PROUDFOOT,
1 Woodchuck.
- WILLIAM M. RICHARDSON, New York City.
2 Gray Squirrels.
- JOHN ROWLEY, JR., New York City.
2 Wood Hares; 1 Red Fox.
- E. W. SMITH, Orange, N. J.
1 Gray Squirrel.
- WILLIAM WALLACE, New York City.
2 Canada Porcupines; 4 Gray Squirrels; 1 Opossum; 1 Collie Dog.
- JAMES M. K. WHITE, Elizabeth, N. J.
1 Opossum.
- DR. J. WILLISTON WRIGHT, New York City.
1 Skull, and 1 skeleton of *Hyrax*, from Syria.

DEPARTMENT OF BIRDS.

- E. COLLINS, West Hoboken, N. J.
6 Least Bitterns.
- DR. W. A. CONKLIN, New York City.
1 *Spindalis zena*.
- JAMES M. CONSTABLE and WM. E. DODGE, New York City.
2452 Bird skins, from India.
- J. J. CROOKE, Staten Island, N. Y.
106 Nests and 608 eggs, mostly North American.
- DEPARTMENT OF PUBLIC PARKS, New York City.
1 Bald Eagle; 4 Hawks; 5 Owls; 1 Cassowary; 7 Swans; 2 Scarlet Ibises; 1 Sacred Ibis; 3 Crows; 1 Pheasant; 3 Quails; 1 Shearwater; 1 Gannet; 1 Murre; 1 Bittern; 1 Rail; 5 Parrots; 4 Cockatoos; 8 Paroquets; 2 Orioles; 7 Grosbeaks and Finches; 2 Thrushes; 1 Flicker. Total, 62 specimens, received in the flesh.
- WM. E. DODGE, New York City.
(See under James M. Constable.)
- MRS. ELIZABETH K. DOW, New York City.
25 Small birds, from Panama.
- WILLIAM DUTCHER, New York City.
13 Specimens, mostly received in the flesh.
- CHARLES R. FLINT, New York City.
1 Mounted European Widgeon, taken at Currituck Sound, N. C.
- W. W. GRANGER, New York City.
1 Pileated Woodpecker; 1 Pine Grosbeak.
- DR. JUAN GUNDLACH, Havana, Cuba.
8 Specimens, from Cuba.
- H. O. HAVERMEYER, JR., New York City.
1 Frill-back Pigeon.

- C. B. ISHAM, New York City.
181 Bird skins, from Java.
- H. K. JAMES, Rockville, Conn.
Collection of birds' eggs; 1 Blue Heron.
- GEORGE N. LAWRENCE, New York City.
7 Hummingbirds; 5 Hawks; 1 Ocelated Turkey.
- LEWIS MORRIS, New York City.
2 Bonaparte Gulls; 2 Swallows; 1 Cuckoo.
- Mrs. JOHN I. NORTHRUP, Yonkers, N. Y.
Nest and eggs of *Icterus northropi*.
- J. ROWLEY, JR., New York City.
3 Canada Jays; 1 Woodcock; 3 Ruffed Grouse.
- HUGH AUCHINCLOSS SMEDBERG, New York City.
9 Mounted birds. (Erroneously accredited in Ann. Rep. for 1892.)
- JOHN C. SPRAGUE, New York City.
2 Gulls.
- C. TRAVIS, Orange, N. J.
1 Red Phalarope.
- I. N. TRAVIS, Orange, N. J.
1 Osprey; 2 Horned Grebes; 1 Hawk; 1 Heron; 5 small birds.
- GEORGE TROTTER, New York City.
2 Mounted Albatrosses.
- WILLIAM WALLACE, New York City.
2 Loons.
- WILLIAM WALLACE and J. ROWLEY, JR., New York City.
10 Shearwaters; 6 Jaegers; 2 Kittiwakes; 3 Guillemots; 2 Fulmars;
2 Yellowlegs; 1 Sanderling; 1 Titlark.

DEPARTMENT OF REPTILES AND FISHES.

- DEPARTMENT OF PUBLIC PARKS, New York City.
2 Alligators; 2 Tortoises; 1 Shark.
- Mrs. ELIZABETH K. DOW, New York City.
14 Bottles of Fishes and Reptiles, from Central America.
- L. P. GRATACAP, New York City.
1 Fish, from Grand Menan.
- J. L. HARVEY, New York City.
1 Horned Toad.
- DR. E. O. HOVEY, New York City.
1 Sea Robin, from Long Island Sound.
- A. M. MCGREGOR, New York City.
1 Mounted Tarpon, from Fort Myers, Fla.
- Mrs. A. M. MCGREGOR, New York City.
2 Mounted Fishes, from Florida.
- W. C. McGRUTHER, New York City.
1 Horned Toad.
- W. M. MITCHELL, Bryn Mawr, N. Y.
1 Hog-nosed Snake.
- WILLIAM NIVEN, New York City.
1 Angler Fish.
- PROF. R. P. WHITFIELD, New York City.
1 Hippocampus; 12 Skate's eggs.

DEPARTMENT OF ENTOMOLOGY.

- DR. HARRY T. CRONK, New York City.
Nest of Carpenter Bee.
- H. CARACCIOLA, Trinidad, W. I.
A small collection of insects, from Trinidad.
- EMIL FAYEN, Astoria, N. Y.
Several specimens of Bees and Wasps.
- IRWIN CADMUS, New York City.
1 Bird Spider, from Baracoa, W. I.
- JOSEPH B. FLYNN.
1 Bird Spider, from Mexico.
1 Whip Scorpion, from California.
- A. P. MORSE, Wellesley, Mass.
Type specimens of *Sphargemon saxatile* and *S. scudderi*.
- J. H. WINSER, New York City.
1 Nest of Trap-door Spider.
- F. E. CHURCH, Hudson, N. Y.
Specimens of *Cicada pupa* infested with fungus.
- DR. J. L. WORTMAN and W. GRANGER.
A small collection of insects from Kansas and Dakota.

DEPARTMENT OF ANTHROPOLOGY.

- MISS EMILY BROWN.
2 Ivory vases from China.
- CLARENCE B. MOORE, Philadelphia.
Ampullaria depressa, from a shell-heap near Thornbill Lake, Volusia Co., Fla.
- MRS. A. DAVIS, New York.
3 Copper implements from Chimbote, Peru.
- MRS. WILLARD PARKER, New York.
1 Zulu wooden spoon, Africa.
1 Tripod vase from grave, Chiriqui, Central America.
1 Gold image, bird-form, " " "
5 Dishes made of Agalmatolite, China.
- J. J. CROOKE, Staten Island.
1 Nephrite celt.
1 Stone axe.
- JOSEPH HUSSON, JR., New York.
40 Chipped stone implements, collected by the donor at Clason Point, Cornell's Neck, Westchester, New York.
- JAMES M. CONSTABLE, New York.
Burnt human bones and 15 stone and bone implements from the exploration of three mounds in Ross Co., Ohio, by W. K. Moorehead.
- DR. HENRY M. FIELD, New York.
Fragment of mummy-cloth with hieroglyph, from the body of Rameses II, XIX Dynasty, 1500 years B. C. Given to Dr. Field by Dr. Grant Bey of Cairo.
- J. A. BAILEY, New York.
A catamaran from Point de Galle, Ceylon. A small boat, called Lotu-savata, from the Sulu Islands. A Burmese racing cart, used for driving trotting steers, from Pegu, Lower Burmah.

M. H. SAVILLE, New York.

A small collection of stone implements, fragments of pottery and other objects, found by the donor on Manhattan Island.

MORRIS K. JESUP, New York.

A collection made in Mexico by Mr. William Niven, consisting of 633 specimens of pottery, carved stones, implements, ornaments and small idols, all from sites of ancient settlements in various parts of Southern Mexico.

EXCHANGES.

LIBRARY.

H. H. & C. S. BRIMLEY, Raleigh, N. C.
30 Natural History Pamphlets.

GEOLOGICAL DEPARTMENT.

D. K. GREGOR, Fulton, Mo.; the following Devonian fossils from Snyder Creek, Mo.

3	Specimens of	<i>Productus Callawayensis</i>	Swallow.
4	"	<i>Orthis impressa.</i>	
5	"	<i>Spirifera annæ</i>	Swallow.
4	"	<i>Atrypa reticularis.</i>	
5	"	<i>Athyris minima</i>	Swallow.
4	"	<i>Lioclema occidens</i>	H. & W.
5	"	<i>Strophodonta subnavalis</i>	Swallow.
5	"	"	<i>navalis</i> "
4	"	"	<i>inflexa</i> "
3	"	<i>Callawayensis.</i>	
1	Unidentified specimen.		

F. W. SARDESON, Minneapolis, Minn.

3	Specimens of	<i>Orthis petrae</i>	Sardeson.
3	"	<i>Zygospira Uphami</i>	Winch. & Sardeson.
16	"	"	? <i>aquila</i> Sardeson.

MINERALOGICAL DEPARTMENT.

L. BLUMENTHAL, New York City.

1	Specimen of	Chrysocolla	under Quartz, from Globe Mine, Arizona.
2	Specimens of	Cuprite	from Globe Mine, Arizona.

L. CAHN, New York City.

1	Specimen of	Boleite,	from Colorado.
1	"	Orthoclase,	from Gunnison Co., Cal.

DEPARTMENT OF MAMMALS.

570 Small Mammals, mostly from Arizona, Canada and New Brunswick.

DEPARTMENT OF BIRDS.

92 Specimens, from New Brunswick.

DEPARTMENT OF ENTOMOLOGY.

MRS. A. T. SLOSSON, New York City.
75 Specimens of different kinds of insects.

PURCHASES.

LIBRARY.

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The International Cyclopaedia. Vols. I-XV. 1893.
Conrad, T. A. Republication of Conrad's Fossils of U. S. 1893.
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Götze, J. A. E. Abhandlungen zur Geschichte der Insekten. 7 Vols. 1778-
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5 Vols. 1869.
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" " " Monographie der Phaneropteriden. 1878.
Staudinger, O. Beitrag zur Feststellung Sesien-Arten, etc. Europae. 1856.
Tegetmeier, W. B. Pigeons: Structure and Management. 1868.

DEPARTMENT OF MAMMALS.

BY PURCHASE.

1198 Specimens, mostly from North Carolina, Florida, Texas, Arizona, California and Mexico.

THROUGH MUSEUM EXPEDITIONS.

833 Specimens, as follows: From Trinidad, 335; from Mexico, 18; from South Dakota and Kansas, 456; from New Brunswick, 24.

DEPARTMENT OF BIRDS.

BY PURCHASE.

389 Specimens, from Southern and Lower California.

THROUGH MUSEUM EXPEDITIONS.

297 Specimens, from Trinidad, South Dakota and Kansas.

DEPARTMENT OF REPTILES AND FISHES.

THROUGH MUSEUM EXPEDITIONS.

Reptiles from Trinidad; 12 Snakes and 1 Turtle, from South Dakota and Kansas.

DEPARTMENT OF ENTOMOLOGY.

BY PURCHASE.

275 Specimens of Butterflies and Moths.

About 3000 specimens from localities within fifty miles from New York City.

DEPARTMENT OF MAMMALIAN PALÆONTOLOGY.

THROUGH MUSEUM EXPEDITIONS.

From Expedition into Miocene Bad Lands, Dakota, 400 specimens, including about 6, more or less, perfect skeletons.

From Expedition into Eocene Bad Lands, Utah, 140 specimens of skulls and other parts of skeletons.

From Expedition into Loup Fork Bad Lands of Kansas, about 100 specimens, including an almost complete skeleton of large Rhinoceros.

BY PURCHASE.

Purchased from Princeton College, 4 specimens.

“ “ Chas. Sternberg, 10 “

DEPARTMENT OF ANTHROPOLOGY.

BY PURCHASE.

A collection of pottery, stone implements, human skeletons, bones of animals, and other objects. All found by Mr. A. C. Chenoweth in shell-heaps, graves and old Indian village sites in the vicinity of Inwood, Manhattan Island.

2 Pottery vases from Mexico.

An ethnological collection of mythological figures, cut in leather and carved in wood; garments, musical instruments, blow guns, etc., from Java.

5 Ivory tusks, with native etched pictures, from Port Clarence, Alaska.

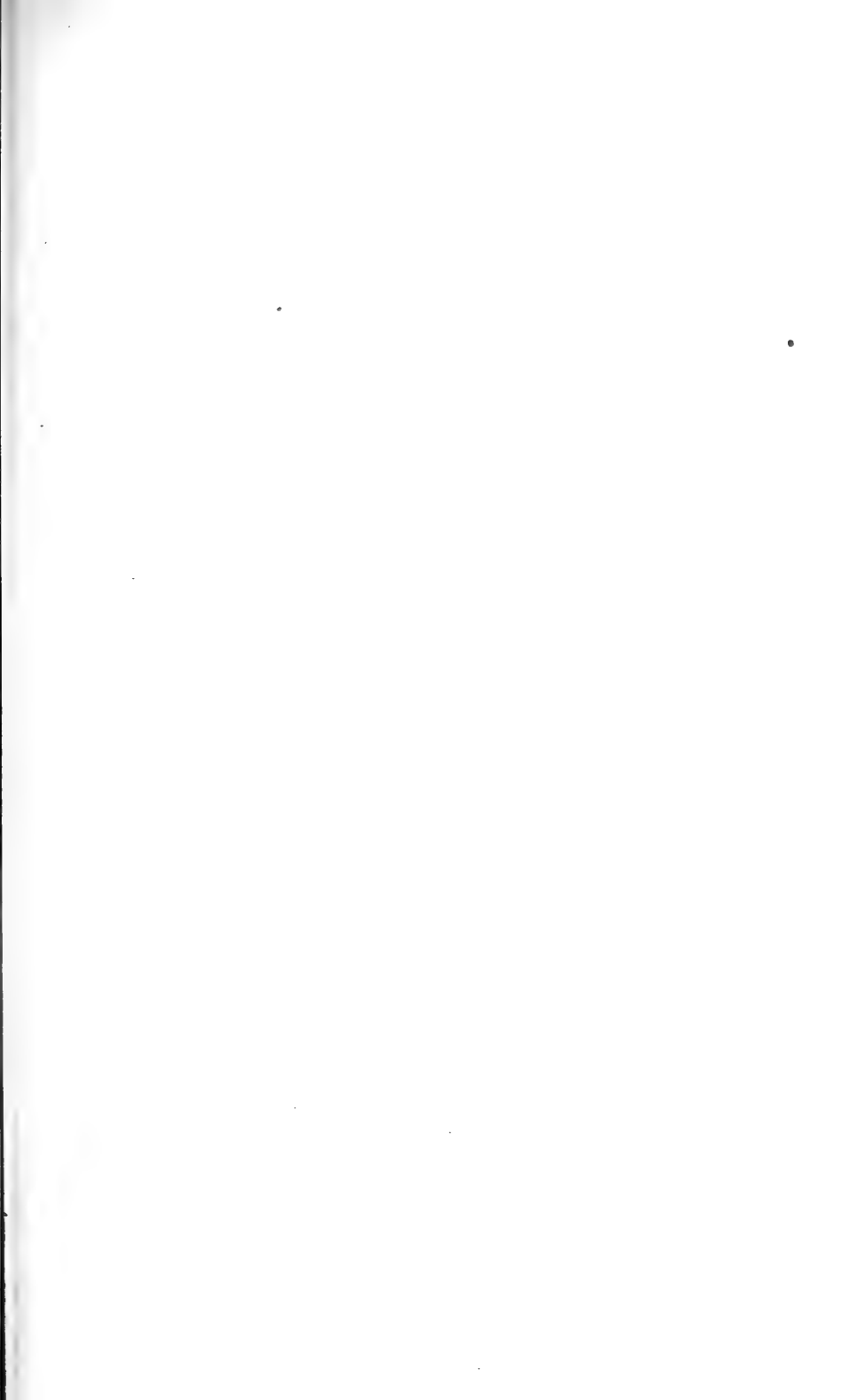
The large archaeological and ethnological collection from Alaska, and from the Western Eskimo, made by Lieut. Geo. T. Emmons, and exhibited at the World's Columbian Exposition; also an important addition to the collection made by Lieut. Emmons since his return to Alaska. (These combined are known as the Second Emmons' Collection.)

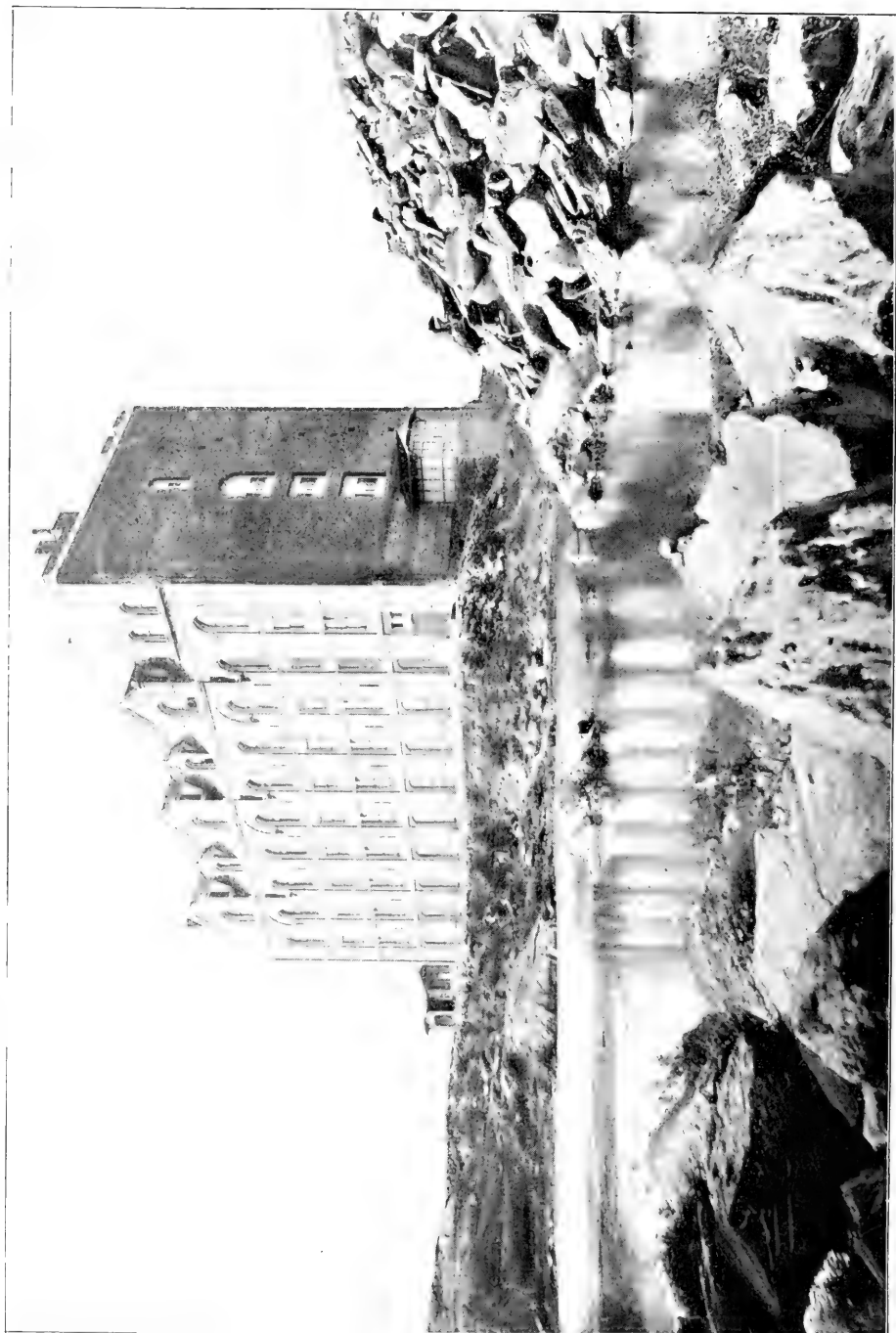
BY SPECIAL EXPEDITIONS OF THE DEPARTMENT.

Several large lots of mummies, fabrics, implements, ornaments, pottery and other objects have been received from the explorations in Peru by Mr. A. F. Bandelier.

Several lots of ethnological material from tribes in Northern Mexico; also archaeological specimens, and human skulls and skeletons, have been received from Dr. Lumholtz' explorations in Northern Mexico.

An ethnological collection is on the way from Vancouver Island, the result of the special work of Dr. Franz Boas for the Museum.





VIEW OF MUSEUM BUILDING, 1878.

INCORPORATION.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

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

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

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

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

SEC. 3. Said Corporation may purchase and hold, or lease, any real and personal estate necessary and proper for the purposes of its incorporation, provided they shall not hold real estate which shall exceed one hundred thousand dollars in value.

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.*

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

ARTICLE III.

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

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

ARTICLE IV.

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

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

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

ARTICLE V.

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

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

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

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

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

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

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

ARTICLE VI.

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

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

ARTICLE VII.

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

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

ARTICLE VIII.

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

ARTICLE IX.

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

ARTICLE X.

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

ARTICLE XI.

A majority of the Trustees for the time being 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 one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

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

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

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

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

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

II.

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

III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-office*—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.

By the Payment of One Thousand Dollars.

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 PHOENIX.*
 BENJAMIN H. FIELD.*
 WILLIAM T. BLODGETT.*
 OLIVER HARRIMAN.
 ROBERT BONNER.
 JAMES B. COLGATE.
 ALEXANDER STUART.*
 WILLIAM A. HAINES.*
 BENJAMIN AYMAR.*
 RICHARD ARNOLD.*
 JOSEPH H. CHOATE.
 JONATHAN THORNE.*
 MISS PHEBE ANNA THORNE.
 D. O. MILLS.
 JOHN A. C. GRAY.
 HEBER R. BISHOP.
 CHAS. G. LANDON.*
 WILLIAM E. DODGE.

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

* Deceased.

HENRY SELIGMAN.
 RICHARD T. WILSON.
 JOHN E. PARSONS.
 FRANCIS O. MATTHIESSEN.
 A. J. FORBES-LEITH.
 GEORGE BLISS.
 M. C. D. BORDEN.
 ARCHIBALD ROGERS.
 GEORGE C. COOPER.
 MRS. M. SCHUYLER ELLIOT.
 APPLETON STURGIS.
 THEODORE A. HAVEMEYER.

WILLIAM C. WHITNEY.
 GEORGE G. HAVEN.
 JAMES BAKER SMITH.
 CYRUS W. FIELD, JR.*
 JAMES ANGUS.
 HENRY VILLARD.
 DR. WM. PEPPER.
 AUSTIN CORBIN.
 ANSON W. HARD.
 GUSTAV E. KISSEL.
 ELBRIDGE T. GERRY.

Honorary Patron :

DR. EDGAR A. MEARNS, U. S. A.

FELLOWS.

By the Payment of Five Hundred Dollars.

SAMUEL WILLETS.*
 ROBERT GORDON.
 HOWARD POTTER.
 C. V. S. ROOSEVELT.*
 CHARLES W. GRISWOLD.*
 SAMUEL F. B. MORSE.*
 RUTHERFORD STUYVESANT.
 MEREDITH HOWLAND.*
 MARSHALL O. ROBERTS.*
 JOHN ALSTYNE.*
 O. B. POTTER.*
 Hon. LEVI P. MORTON.
 HANSON K. CORNING.*
 STEWART BROWN.*
 ABRAM DUBOIS.*
 TIFFANY CO.
 LUCIUS TUCKERMAN.
 ALFRED B. DARLING.
 A. A. LOW.*
 RICHARD MORTIMER, JR.
 THOS. A. VYSE, JR.
 GEORGE G. GRAY.*

GOUVERNEUR KEMBLE.*
 SAMUEL HAWK.*
 JOHN SNEDEN.*
 GEORGE BLISS.
 R. A. WITTHAUS, M.D.
 THOMAS BARRON.*
 GEORGE W. CASS.*
 CHARLES W. CASS.
 H. M. SCHIEFFELIN.*
 PROF. WM. LIBBEY, JR.
 ROBERT LENOX KENNEDY.*
 F. R. HALSEY.
 CYRUS W. FIELD, JR.*
 H. M. FLAGLER.
 D. B. IVISON.
 H. McK. TWOMBLY.
 HENRY G. MARQUAND.
 JOHN T. TERRY.
 JOSIAH M. FISKE.*
 ELLIOTT F. SHEPARD.*
 JOHN SLOANE.*
 JOHN D. ROCKEFELLER.

* Deceased.

PHILLIPS PHENIX.
 LLOYD PHENIX.
 WM. H. HARBECK.
 D. WOLFE BISHOP, JR.
 CORTLANDT FIELD BISHOP.

WHEATON B. KUNHARDT.
 SAMUEL P. AVERY.
 JAMES H. JONES.
 JAMES B. HAGGIN.
 MRS. RICHARD P. DANA.

Honorary Fellow:

JAMES THOMSON.*

LIFE MEMBERS.

By the Payment of One Hundred Dollars.

JOHN E. ALEXANDRE.
 CONSTANT A. ANDREWS.
 MRS. BLANCHE L. ANDREWS.
 B. G. ARNOLD.
 SAMUEL P. AVERY.
 MRS. JAMES C. AYER.
 MISS E. AYMAR.
 JAMES A. BAILEY.
 JAS. MUHLENBERG BAILEY.
 DAVID BANKS.
 HENRY I. BARBEY.
 FORDYCE BARKER, M.D.*
 W. H. BEADLESTON.
 GEORGE E. BELCHER, M.D.*
 C. M. BELL, M.D.
 CORNELIUS N. BLISS.
 A. K. BOLAN.
 HENRI M. BRAEM.
 BENJAMIN BREWSTER.
 CHAS. P. BRITTON.
 ADDISON BROWN.
 FRANK G. BROWN.*
 JAMES M. BROWN.*
 JOHN L. CADWALADER.
 MRS. ALEX. CAMERON.
 CHAS. M. CAULDWELL, M.D.
 ISAAC P. CHAMBERS.*
 C. W. CHAPIN, JR.
 HENRY CHAUNCEY.

HENRY CLEWS.
 CHARLES L. COLBY.
 EDWARD COLGATE.*
 WILLIAM COLGATE.
 MISS ELLEN COLLINS.
 MRS. WILLIAM COMBE.
 FRED. H. COMSTOCK.
 WASHINGTON E. CONNOR.
 EDWARD COOPER.
 ALEX I. COTHEAL.*
 S. D. COYKENDALL.
 JAMES CRUIKSHANK.
 A. DALRYMPLE.*
 CHAS. M. D'ACOSTA.*
 HENRY J. DAVISON.*
 THOMPSON DEAN.
 F. W. DEVOE.
 GEORGE B. DE FOREST.
 S. DEJONGE.
 J. H. DEMOTT.*
 NORMAN W. DODGE.
 PETER DONALD.
 E. J. DONNELL.
 ANDREW E. DOUGLAS.
 R. G. DUN.
 WM. BUTLER DUNCAN.
 JAMES H. DUNHAM.
 EDWARD J. FARRELL.
 JOHN FITCH.

* Deceased.

PROF. A. E. FOOTE.
 JAMES FRASER.
 FRANCIS P. FREEMAN.
 SETH BARTON FRENCH.
 GEORGE GARR.
 WILLIAM H. GEBHARD.
 THEODORE K. GIBBS.
 PARKE GODWIN.
 JAMES J. GOODWIN.
 STEPHEN T. GORDON.
 ANDREW H. GREEN.
 JOHN GREENOUGH.
 JOHN N. A. GRISWOLD.
 FRANKLIN L. GUNTHER.
 ALEX. HADDEN, M.D.
 JOHN A. HADDEN.
 JOHN P. HAINES.
 RICHARD T. HAINES.
 W. A. HAINES, JR.
 MISS E. S. HAINES.
 MRS. W. A. HAINES.
 WILLIAM M. HALSTED.
 WILLIAM GASTON HAMILTON.
 BENJAMIN HART.
 FREDERICK C. HAVEMEYER.*
 JACOB HAYS.
 MRS. E. HERRMAN.
 ALFRED M. HOYT.
 THEO. D. HOWELL.
 WILSON G. HUNT.*
 C. P. HUNTINGTON.
 W. B. ISHAM.
 D. B. IVISON.
 A. JACOBI, M.D.
 MISS C. O. JONES.
 CHAS. H. KALBFLEISCH.*
 GEORGE KEMP.
 RUDOLPH KEPPLER.
 JOHN KING.
 JOHN ALSOP KING.
 WM. M. KINGSLAND.
 A. C. KINGSLAND.
 PERCIVAL KNAUTH.
 GEORGE T. KNIGHT.
 JAMES KNIGHT, M.D.*
 GEO. F. KUNZ.

JOSEPH LAROCQUE.
 JAMES M. LAWTON.
 STEPHEN R. LESHAR.
 JAMES LOW.
 EDWARD LUCKEMEYER.
 E. H. R. LYMAN.
 ALEXANDER MAITLAND.
 GODFREY MANNHEIMER.
 H. G. MARQUAND.
 PETER MARIE.
 WILLIAM C. MARTIN.*
 ALBERT MATHEWS.
 JOHN J. McCOOK.
 JOHN T. METCALFE, M.D.
 CHARLES ADDISON MILLER.
 ROBERT B. MINTURN.*
 ROWLAND G. MITCHELL, JR.
 E. A. MOEN.
 E. C. MOORE.*
 CHARLES MORAN.
 MANDEVILLE MOWER.
 PERCY MUSGRAVE.
 THOMAS B. MUSGRAVE.
 W. B. NEFTEL, M.D.
 H. VICTOR NEWCOMB.
 W. D. NICHOLS.
 WILLIAM NIVEN.
 THOMAS H. O'CONNOR.
 C. H. ODELL.
 E. OELBERMANN.
 H. O'NEILL.
 A. O. OSBORN.
 MRS. A. O. OSBORN.
 JOHN C. OSGOOD.
 HENRY PARISH.
 JOHN E. PARSONS.
 WILLIAM I. PEAKE.
 ALFRED PELL.
 MISS FRANCES PELL.
 GIFFORD PINCHOT.
 JAMES W. PINCHOT.
 HENRY B. PLANT.
 JOHN PONDIR.
 HENRY A. V. POST.
 A. A. RAVEN.
 ISAAC H. REED.*

* Deceased.

J. W. REINHART.
 ROBERT G. REMSEN.
 AUGUSTE RICHARD.
 GEORGE RICHARDS.
 CHANDLER ROBBINS.
 ARCHIBALD ROGERS.
 FRANKLIN D. ROOSEVELT.
 SAMUEL B. SCHIEFFELIN.
 JACOB H. SCHIFF.
 CHAS. S. SCHULTZ.
 WM. F. SEBERT.
 JAS. O. SHELDON.
 ELLIOTT F. SHEPARD.*
 JOHN H. SHERWOOD.
 I. H. SHOENBERGER.*
 S. N. SOLOMON.
 HENRY MILFORD SMITH.
 L. DINWIDDIE SMITH.
 HENRY F. SPAULDING.
 LOUIS STERN.
 ALEX. H. STEVENS.
 C. AMORY STEVENS.
 ANSON PHELPS STOKES.
 MISS OLIVIA E. P. STOKES.
 ISIDOR STRAUS.
 THOMAS W. STRONG.*

HENRY M. TABER.
 JAMES TERRY.
 SAMUEL THOMAS.
 FRED. F. THOMPSON.
 SAMUEL THORNE.
 A. N. TOWNE.
 EFFINGHAM TOWNSEND.
 SPENCER TRASK.
 EDWARD TUCK.
 EDWARD UHL.
 H. D. VAN NOSTRAND.
 HERMAN C. VON POST.
 DR. HENRY F. WALKER.
 BENJAMIN WELLES.
 FREDERICK B. WENDT.
 LOOMIS L. WHITE.
 ED. KIRK WILLARD.
 S. C. WILLIAMS.*
 JOHN T. WILLETS.
 ROBERT R. WILLETS.
 BENJAMIN A. WILLIS.
 EDWARD WINSLOW.
 JOHN WOLFE.
 HENRY H. WOTHERSPOON.
 JOHN H. WYMAN.
 MRS. JOHN J. WYSONG.

Honorary Life Members :

GEORGE H. BROWN.
 W. W. COLE.

PROF. JAMES DOUGLAS.
 MRS. FLORENCE HOWLAND.

HOFRATH A. B. MEYER.

* Deceased.

ANNUAL MEMBERS.

By the Payment of Ten Dollars Yearly.

Abegg, Henry	Beckman, Gerard	Brown, Vernon H.
Abbott, Frank, M.D.	Beer, Julius	Bruce, Col. S. D.
Agnew, John T.	Beers, M. H.	Bryce, William
Aitken, John W.	Bell, Isaac	Buckham, George
Aldrich, Mrs. H. D.	Bend, George H.	Burden, Henry, 2d
Alexander, Henry M.	Benedict, James H.	Burden, James A.
Alexander, Jas. W.	Benjamin, John	Butler, Charles
Alexander, John F.	Bentley, Charles E.	Butler, Prescott Hall
Allen, Calvin H.	Berdell, Theodore	Butler, Wm. Allen
Amead, Bernard G.	Berg, H. E.	
Amsinck, Gustave	Bernheimer, Mrs. A.	Cabot, Dr. John
Amy, H.	Bernheimer, Charles D.	Cahn, Leopold
Anderson, E. Ellery	Bernheimer, Charles L.	Calman, Emil
Anderson, Henry H.	Bernheimer, Simon	Cammann, H. H.
Andreini, J. M.	Berrian, Charles M.	Camp, Hugh N.
Appleton, Daniel	Betts, Samuel R.	Camp, W. A.
Appleton, Wm. H.	Bianchi, F.	Cannon, H. W.
Appleton, W. W.	Bien, Julius	Cassard, William J.
Archbold, John D.	Bissinger, Philip	Cheever, John H.
Armour, H. O.	Blagden, George	Chesebrough, Robert A.
Arnold, E. S. F., M.D.	Blanchard, G. R.	Chittenden, J.
Arnold, John H. V.	Bliss, George	Church, E. Dwight
Arnoux, William H.	Bliss, George T.	Cisco, John J.
Aronson, Rudolph	Bloodgood, John H.	Clark, Cyrus
Aufhauser, Samuel	Blumenthal, Aug.	Clark, George C.
	Bogert, Henry A.	Clarke, Charles C.
Babcock, Samuel D.	Bogert, Stephen G.	Clarke, Charles S.
Baldwin, C. C.	Bond, Frank S.	Clarkson, Frederick
Baldwin, J. G., M.D.	Bonn, William B.	Cochrane, John W.
Baldwin, O. D.	Booss, Frederick	Coffin, Chas. H.
Baldwin, W. D.	Borg, Simon	Coffin, Edmund
Ballin, Gustav	Boskowitz, I.	Coffin, William Edward
Bangs, L. Bolton, M.D.	Bowdoin, G. S.	Coggeshall, Edwin W.
Banta, C. V.	Bradley, S. R.	Cohen, Samuel M.
Banyer, Goldsborough	Bradley, William H.	Colgate, Abner W.
Barnes, E. W.	Breslin, James H.	Colgate, R. R.
Barnes, John S.	Bristol, John I. D.	Colgate, Samuel
Barnes, Theo. M.	Bristow, B. H.	Collins, Miss Ellen
Barney, Chas. T.	Brockway, A. N., M.D.	Collins, Miss M. M.
Bawden, Wm.	Brookfield, Wm.	Compton, A. T.
Beckel, Joseph	Brown, J. Crosby	Conger, Henry C.

- Hart, Mrs. A. B.
Hartley, Marcellus
Havemeyer, J. C.
Haviland, Edwin
Hawley, Edwin
Hawley, Henry E.
Hawkins, Miss M. L.
Hayden, Brace
Haynes, A. E.
Haxtun, William
Hendricks, Edmund
Heroy, Mrs. James H.
Higgins, Francis
Higgins, Mrs. Barton B.
Hill, Geo. H. B.
Hillhouse, Hon. Thos.
Hilyard, George D.
Hinman, W. K.
Hinrichs, Chas. F. A.
Hinton, J. H., M.D.
Hoag, Daniel T.
Hodgman, Geo. F.
Hoe, Peter S.
Hoffman, Very Rev.
E. A., D.D.
Hogg, T. Egerton
Holden, E. R.
Holly, Henry H.
Holt, Charles L.
Holt, Henry
Holt, R. S.
Hone, Robert S.
Horton, Burrett W.
Houghton, Rev. G. H.
Hoyt, Reuben
Hubbard, Gen. T. H.
Hunter, Mrs. M. L.
Huntington, G. S., M.D.
Hüpfel J. Chr. G.
Hyatt, A. M.
- Inman, John H.
Inlee, Samuel
Ireland, John B.
Iselin, Adrian, Jr.
Iselin, C. Oliver
- Iselin, Mrs. Adrian
Iselin, Wm. E.
- Jackson, Charles A.
Jackson, Geo. T., M.D.
Jackson, John B.
Jackson, Wm. H.
Jacobus, John S.
Jaeger, Francis M.
Jaffray, Robert
Jaques, David R.
Jaques, George B.
Jenkins, Wm. L.
Jeremiah, Mrs. H.
Jesup, Jas. R., Jr.
Johnson, Rossiter
Juilliard, A. D.
- Kaskel, Albert
Kellogg, L. Laffin
Kellogg, Mrs. Chas.
Kemp, Edward
Kendall, Edward H.
Kennedy, John S.
Kerbs, Adolf
Kerner, Charles H.
Kerwin, Andrew J.
Ketcham, E.
Kevan, William
King, William F.
Kingman, Abel Willard
Kinnicutt, Dr. F. P.
Kissam, Philip
Klenke, William H.
Knapp, H., M.D.
Knickerbacker, H.
Kohns, L.
Kraus, Prof. John
Kraus, William
Kuttroff, Adolph
- Lagowitz, Miss H. L.
Laidlaw, Henry B.
Lamborn, R. H., Ph.D.
Langdon, Woodbury G.
- Lange, Dr. F.
Lange, J. D.
Langmann, G., M.D.
Lapham, Lewis H.
Lapham, S. V.
Lathers, Richard
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Lawrence, Mrs. Samuel
Layng, James D.
Leale, Charles A., M.D.
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Lehman, E.
Lehman, M.
Leshner, Stephen R.
Lewis, James F.
Lewis, Richard V.
Liautard, A., M.D.V.S.
Lipman, Julius
Livingston, Edward
Livingston, Wm. S.
Lobensline, W. C.
Loeb, S.
Lorbacher, Edmund
Lord, Benjamin
Lord, D. D.
Lounsbury, R. P.
Lovell, John W.
Low, C. Adolphe
Low, Josiah O.
Lowry, John
Ludington, C. H.
Lueder, A.
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Lusk, William T., M.D.
Lyman, T. C.
- Mack, J. W.
Mackenzie, Duncan E.
Mackey, Oscar T.
Macy, I. Augustus
Maillard, Henry
Maitland, Robert L.
Mali, Charles
Mansfield, Howard

- Markoe, Dr. Thos. M.
 Martin, Bradley
 McAlpin, D. H.
 McComb, J. Jennings
 McCready, Mrs. Caroline A.
 McCurdy, Richard A.
 McDonald, John E.
 McIntyre, Ewen
 McKee, Russell W.
 McKim, Rev. Haslett, Jr.
 Merrall, William J.
 Metcalfe, John T., M.D.
 Meyer, Oscar R.
 Meyer, Thomas C.
 Middleton, A. D.
 Mildeberger, Mrs. John
 Miller, D. S.
 Milmine, George
 Mitchell, Alfred
 Mitchell, John J.
 Mitchill, Mrs. S. L.
 Moir, James
 Moller, Peter, Jr.
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 Moore, W. H. H.
 Morgan, George H.
 Morris, Henry Lewis
 Morrison, Edward
 Morrison, George A.
 Munro, George
- Navarro, Juan N.
 Nathan, Miss Agnes C.
 Neumann, C. G.
 Newton, Henry J.
 Nisbet, William F.
- O'Donohue, Joseph J.
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 Olmstead, Dwight H.
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 Olyphant, Robert
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 Owens, Wm. W.
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 Robbins, S. Howland
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 Rowell, George P.
 Rütten, August
 Rutter, Thomas
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 Schafer, Simon
 Schefer, Carl
 Scheitlin, Edward
 Schley, Dr. J. M.
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 Scholle, Jacob
 Schultze, John S.
 Schuyler, Philip
 Schuyler, S. D.
 Scott, George S.
 Scudder, Hewlett
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 See, Mrs. Horace
 Seligman, David J.
 Seligman, Isaac N.
 Sellew, T. G.
- Sennett, George B.
 Sharp, W. W.
 Shea, George
 Sherman, Charles A.
 Shethar, Samuel
 Sidenberg, Gustavus
 Sill, Charles
 Sinclair, John
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 Smith, Adon
 Smith, Charles S.
 Smith, Geo. W.
 Smith, James Rufus
 Smith, John Jewell
 Smith, Rev. Cornelius B.

- Smith, William Alex.
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 Spencer, James C.
 Starin, John H.
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 Stebbins, Jas. H.
 Stechert, Gustav E.
 Steers, Edward P.
 Steers, Henry
 Stephens, Benjamin
 Stern, Benjamin
 Stewart, Lisperard
 Stewart, William R.
 Stiehl, Gustav H.
 St. John, William P.
 Stone, Edwin
 Stone, Mason A.
 Stone, Mrs. Catherine C.
 Stone, Mrs. Georgiana C.
 Stone, Sumner R.
 Storm, Clarence
 Storm, George
 Strong, Charles E.
 Strong, W. L.
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 Sutton, Woodruff

 Tailer, Edward N.
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 Taintor, Charles N.
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 Talmadge, Henry
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 Taylor, George
 Taylor, Stevenson
 Tefft, F. Griswold
 Tefft, Wm. E.
 Thomas, T. G., M.D.

 Thompson, John C.
 Thompson, W. Prall
 Thomson, Eugene
 Thorne, Mrs. William K.
 Tiemann, Mrs. Peter C.
 Tiffany, Louis C.
 Tilford, Charles E.
 Tillinghast, W. H.
 Tonnelé, John L.
 Toothe, William
 Toucey, J. M.
 Townsend, R. H. L.
 Townsend, R. W.
 Tracy, J. Evarts
 Trevor, H. G.
 Trevor, Mrs. John B.
 Turnure, Lawrence
 Tuttle, Nathaniel
 Twombly, H. McK.
 Twombly, Horatio N.

 Valentine, Mrs. Lawson
 Van Brunt, Cornelius
 Van Brunt, Hon. C. H.
 Van Norden, Warner
 Van Slyek, W. H.
 Van Wickle, A. S.
 Van Winkle, Edgar B.
 Van Winkle, Miss E. S.
 Vandervoort, W. L.
 Veit, Richard C.
 Voorhis, Wm. W. L.

 Wales, Salem H.
 Walker, William I.
 Wallace, James
 Wallace, Lewis
 Wallach, Antony
 Ward, Lebbeus B.

 Ward, Mrs. Thomas
 Warner, Lucien C.
 Watson, Miss Emily A.
 Watson, Walter
 Weatherbee, Mrs. E. H.
 Webb, W. H.
 Weed, Benjamin
 Weekes, John A.
 Weissman, L.
 Welch, Peter A.
 Wetmore, Dr. John McE
 Wheelock, Dr. W. E.
 Wheelock, Geo. G., M.D.
 Wheelock, Wm. A.
 Whipple, L. Edmund
 White, Horace
 Whitehead, Charles E.
 Whitely, James
 Whitney, Alfred R.
 Wicke, William
 Wickes, Edward A.
 Wickham, Delos O.
 Wiebusch, Chas. F.
 Williams, George G.
 Wilson, John
 Wing, John D.
 Witherbee, Frank S.
 Wood, Mrs. Henry R.
 Worthen, W. E.
 Wray, Mrs. Cornelia S.
 Wright, Benjamin

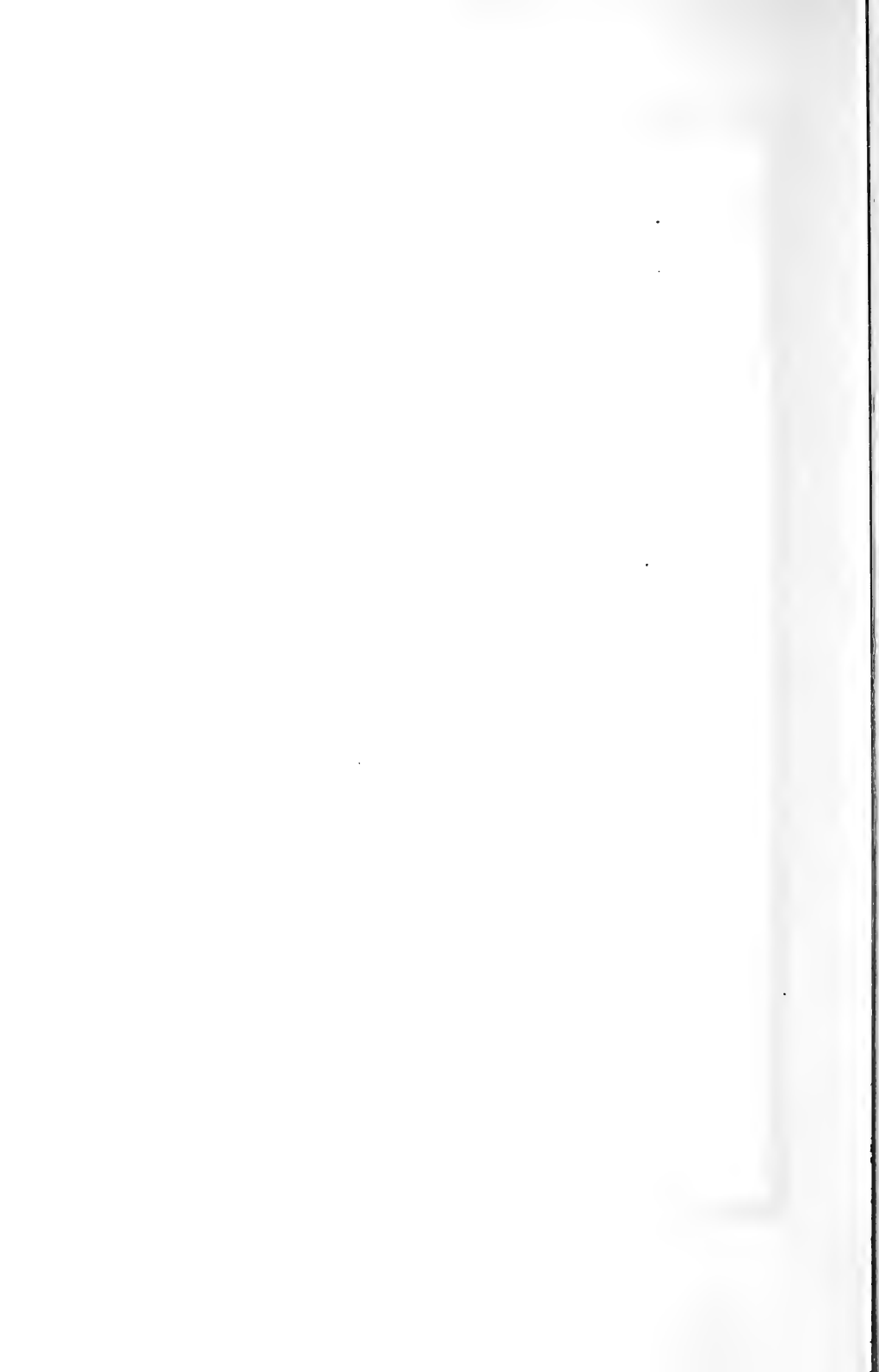
 Youmans, Daniel D.

 Zabriskie, Andrew C.
 Zickel, S.
 Zollikoffer, O. F.

DECEASED MEMBERS,

1894.

Bernheimer, Adolph	Hardt, William A.	McKibbin, George
Blakeman, Birdseye	Harris, Robert	Mowry, A. L.
Cotheal, Alex. I.	Homans, E. C.	Phelps, William Walter
Earle, Wm. P.	Jackson, Wm. H., M.D.	Skidmore, Mrs. Jos. R.
Ely, Richard S.	Kelly, Eugene	Tiemann, Peter C.



In Memoriam.

At the adjourned meeting of the Board of Trustees of the AMERICAN MUSEUM OF NATURAL HISTORY, held February 18, 1895, the following minute in regard to the death of

PERCY RIVINGTON PYNE

was unanimously adopted, ordered to be recorded in full, and a copy sent to the family of the deceased :

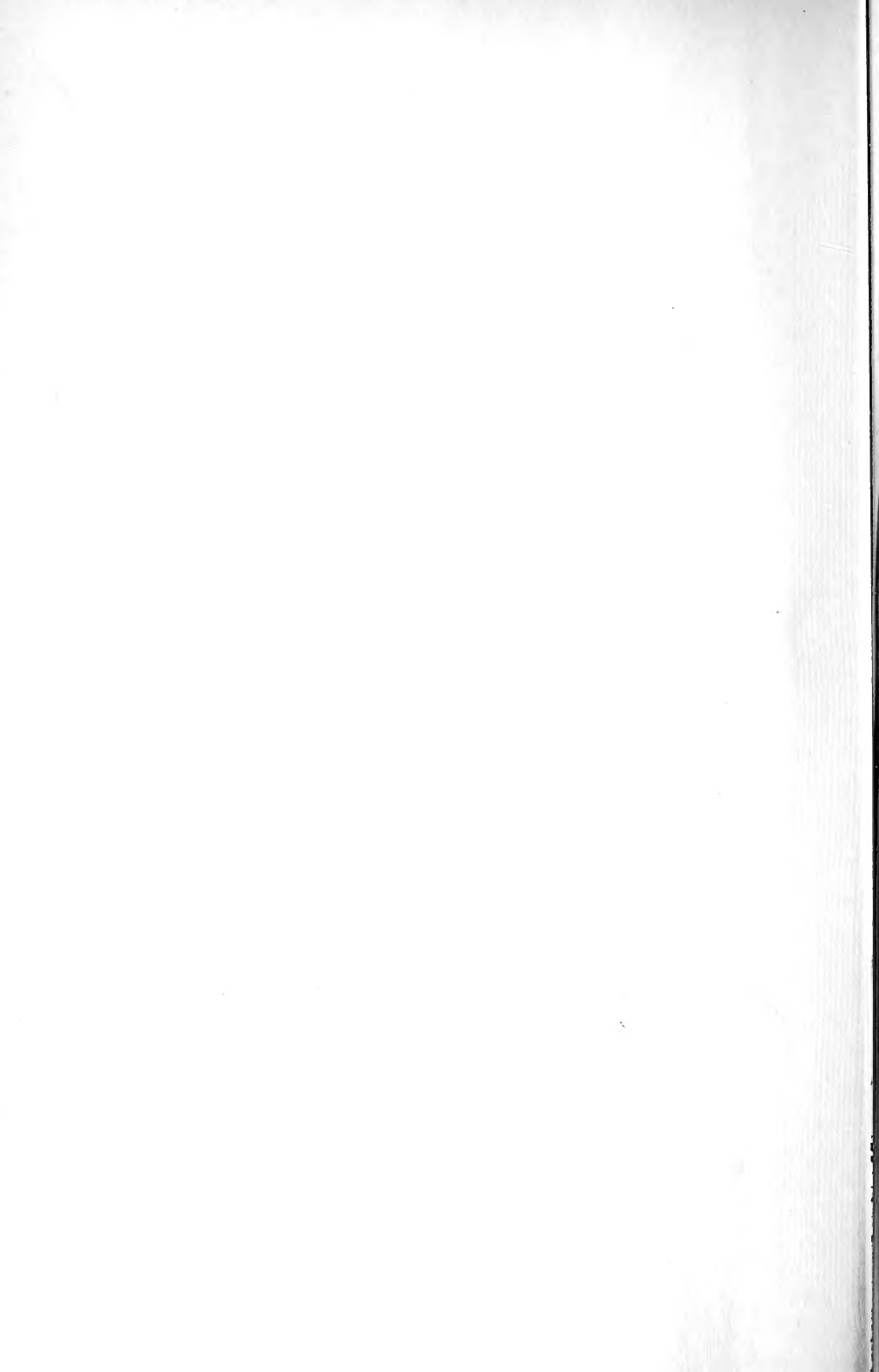
RESOLVED: That this Board has learned with profound sorrow of the sudden decease abroad of our late friend and associate, PERCY RIVINGTON PYNE.

Mr. PYNE's deep interest in the development and growth of the Institution from the time of his election to the Board was attested not alone by his liberal contributions of money and valuable collections, but also by the zealous discharge of his duties as a member of the Board of Trustees.

He was a sagacious and careful adviser, always energetic and faithful in the fulfillment of the trusts which devolved upon him.

Elected a Trustee in 1872, he became a member of the Executive Committee in 1879, and served continuously on that and the other Committees of the Board until failing health compelled his retirement in 1891.

Thoroughly trained in business, and guided by strict principles of honor and probity, his connection with the Museum contributed greatly to its progress and present prosperity.



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American Museum of Natural
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Report

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