

THE
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 1885-6.



PRINTING HOUSE OF WM. C. MARTIN,
111 JOHN ST., NEW YORK.

1886.

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American Museum of Natural History

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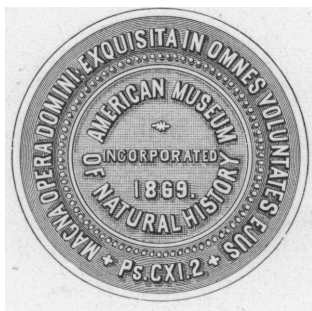
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ANNUAL REPORT OF THE TRUSTEES

FOR THE YEAR 1885.

The Trustees of the AMERICAN MUSEUM OF NATURAL HISTORY present this their Seventeenth Annual Report to the Patrons, Fellows and Members of the Museum.

The Treasurer's account shows the receipts of the year to have been \$89,966.54. This includes the generous bequest of \$50,000 made by the late Wm. H. Vanderbilt, and \$3,586.80 contributed by Miss Catharine L. Wolfe for the purchase of works on Conchology to supplement her former gift to the Library. Also \$1,500 given by Mrs. Robert L. Stuart toward the purchase of the "Bailey" Collection of Birds' Nests and Eggs, and \$8,600 paid by the Trustees to make up the deficiency in maintaining the Museum.

The expenditures were \$30,508.80 for maintenance, and \$6,054.16 for improvements and additions to the collections, while \$50,937.50 was carried to the Endowment Fund.

The purchases include the "Bailey" Collection of Birds' Nests and Eggs; a group of ostriches, comprising male, female and young; 38 specimens of American birds; 41 specimens of American mammals, and 12 specimens of monkeys, all filling conspicuous deficiencies in these collections; also 56 geological specimens to illustrate the series figured in *Dana's Manual*, and 65 volumes of necessary books for the Library.

The additions to the Museum by *donation* and *exchange* will be found in detail in the list of accessions appended. They show a gratifying increase in both the number and value of the specimens.

The work accomplished and in progress in the Museum during the past year may be best summarized by extracts from the reports of the different Curators, as follows:

GEOLOGICAL DEPARTMENT.

"PALÆONTOLOGICAL COLLECTIONS.—During the past year much time has been spent in labeling and arranging these collec-

tions, more especially those of the Coal Measures, Triassic, Cretaceous and Eocene Tertiary; the labels being mostly full labels, for permanent use, bearing all the information necessary for exhibition purposes. This work has progressed to near the end of the Eocene, in Section 11, Case P, with the exception of parting strips in the latter formation. A few donations have been received, and some additions obtained in exchange for labeling done for other parties. These will be found mentioned under their proper heads.

"Dana's Manual Series.—An attempt was made during the year, to get together, by purchase and by selection from the European collection of fossils in the Museum, a representation of the European series of fossils represented in *Dana's Manual of Geology*. Of those placed in the cases to represent this part of the series, there are now present 75 species, represented by 102 specimens; of these 49 species, 56 specimens were purchased for this purpose, leaving 26 species; 46 specimens added from the Museum collections, besides several species which are represented by large individual specimens in the cases, too large to be arranged with the regular series. This illustrates 75 species in the collection against about 154 species illustrated of the European series in the *Manual*. The remainder are mostly species, specimens of which are difficult to obtain, or very expensive.

"MINERALOGICAL COLLECTION.—The time spent on this collection during the year has been chiefly in numbering and recording the specimens in the form of a catalogue. The number assigned to the mineral species being that given it in *Dana's System of Mineralogy*. This is placed upon the specimen and upon the label, and entered in a catalogue where the specimen is described; a letter is also placed upon the ticket of each individual specimen of the species, indicating its locality. This work has been accomplished over more than half the collection, and is of such a nature as to be used for a printed catalogue, if required. This collection has also received several valuable additions during the year, both by purchase and donation. Among the former may be mentioned two beautiful groups of crystals of stibnite from Japan, and a small and peculiar meteorite from the Esterville, Iowa, fall. Of the latter series, the beautiful malachites and azurites from the Copper Queen Mining Co., through W. E. Dodge, Esq., deserve special notice.

"CONCHOLOGICAL COLLECTION.—The collections in this department have progressed but little in the way of arrangement and labeling, owing principally to the sickness of Mr. Sanderson Smith. This season, however, he is in better health, and there is a probability of greater progress.

"GUIDE TO THE GEOLOGICAL HALL.—A new guide to the collections in this department was prepared early in the year. Being much larger than the first, and illustrated, it has met with a better reception. During the time it has been on sale, nearly nine months, there have been over four hundred copies sold in the building.

"BULLETIN No. 6, consisting of three palæontological articles, prepared in this department, was published early in October."

DEPARTMENT OF BIRDS AND MAMMALS.

[Mr. J. A. Allen, formerly Curator of the Museum of Comparative Zoology at Cambridge, Mass., assumed charge of this department on the 1st of May.]

"On taking charge of this department in May last, a careful examination of the collections of both mammals and birds was made with reference to their extent and condition of preservation. It was gratifying to find them not only so rich and valuable as regards material, but thoroughly free from insect pests. In neatness of arrangement, in the character of the specimens, as regards the mounting, and in the number of the species represented, these collections rank easily among the first in the country. The collection of mammals numbers not far from one thousand mounted skins, and about three hundred mounted skeletons. Its noteworthy features are the very large series of the monkeys of the world—by far the finest in America—and the nearly complete series of the mammals of North America. The perfection of these two groups has already been made a specialty, and measures have been taken to supply the few remaining deficiencies in each.

"The collection of birds numbers not far from ten thousand mounted specimens, and about three thousand unmounted skins, besides several hundred mounted skeletons. The series of North American birds, which has been made a specialty, is practically complete, nearly every procurable species being represented, while the few still lacking will be soon supplied.

"This department also includes a very large collection of nests and eggs, recently purchased of Mr. H. B. Bailey. This collection was brought together with very great care, and ranks as one of the finest and most valuable in the country. In addition to the Bailey Collection, many valuable specimens have been derived from other sources, including a valuable contribution from Dr. Edgar A. Mearns, U. S. A.

"Before proceeding to a statement of what has been done in the way of work on the collections, it may not be out of place to refer briefly to some of the needs of this department, in the hope that such a reference may lead some of the many friends of the Museum to take liberal measures to supply them. Although these collections are so large, and in general so satisfactory, they still

present deficiencies, several prominent types of mammals, for example, being wholly unrepresented. It is consequently desirable that means be provided soon to supply the much needed additions. There are also some important gaps in the series of birds, which should be filled as promptly as possible.

"The foregoing remarks relate exclusively to the exhibition collections. But a great natural history museum has a two-fold purpose to subserve: the instruction of the public, and the education of students who desire a more intimate acquaintance with specimens than can be acquired by viewing them as displayed in the cases of the exhibition halls. In respect to the first, so far as the present department is concerned, few public museums are better equipped; nor has the second purpose been overlooked by the management of the Museum, provision having been already made for a study collection for the use of students and specialists. There is now a good nucleus for a study collection of birds, but it needs supplementing to a large extent in order to bring this very important educational feature of the department to a proper standard of efficiency, or to place it on a level with the exhibition collections. The expenditure of a few thousand dollars on the study collection of birds would suffice to make this Museum an authority second to none on all that relates to North American ornithology. I speak of North American birds particularly in this connection, believing it sound policy to develop our resources and usefulness in certain special lines rather than to diffuse our energies over the general field, with the necessary result of obtaining only mediocrity instead of distinguishing excellence in a more limited range. And certainly our own native animals are deserving of first attention.

"A study collection of North American mammals is equally desirable, and even more important, from the fact that such a collection is more difficult to acquire, and hence would prove correspondingly more useful. At present, however, it cannot be said that we have ever a nucleus for such a collection. In view of the interest in all educational projects, and the liberality so characteristic of many of the wealthy citizens of this city, it would seem that the mere mention of these needs should go far toward supplying the remedy.

"Another serious and even imperative want is the need of more space for the proper display of the objects already in the exhibition cases, which is already inadequate, and must become more so from year to year, with the natural growth of the collections, till additional room is secured by an extension of the Museum building.

"**MAMMALS.**—Much time has been devoted to work on the collection of mammals. Many of the cases in the lower hall containing the mammals were found to be very much crowded, and

in order to utilize to the best advantage the very inadequate space now allotted to the collections, additional shelves were inserted wherever possible, and the vertical partitions were removed when necessary. In some of the cases the specimens are still so crowded that only a part can be well seen, while it is impossible to place many others so that the labels can be read. The cataloguing and critical identification of this part of the collection has thus far occupied the greater part of my time, but this work is now finished. Each specimen has been carefully determined, and its full history, so far as known, entered in the catalogue book. Labels have been prepared for the whole collection, two-thirds of which are already in position; the rest are now being printed, and will be put in place in a few weeks.

"The work of identification was greatly retarded, and to some extent rendered unsatisfactory, by the lack of many important works of reference, owing to which lack I have failed to satisfactorily identify about five per cent. of the mammals thus far studied.

"I may add, that in working up the collection, I have found many valuable type specimens, respecting which, and others of special interest, I have made notes that may form the basis of a short paper for the Museum 'Bulletin' on the collection of mammals when there is means to publish it.

"I have thus far referred only to the mammals in the Lower Hall. The large collection of monkeys on the bird floor still remains to be catalogued and labeled, in order to complete the work on the mammals.

"BIRDS.—I have as yet done no systematic work on the *exhibition* collection of birds. The *Study* Collection was early brought together, and placed in the Curator's room, and has since been assorted and arranged preparatory to cataloguing.

"Through kind assistance gratuitously rendered by Dr. A. K. Fisher, of Sing Sing, and Mr. J. Dwight, Jr., of this city, nearly 500 specimens—including the whole of the Elliot Collection—have been catalogued and labeled. Mr. Bailey has worked assiduously on the *collection of nests and eggs*, which he has arranged in systematic order, placing the eggs in neatly cotton-lined paper trays, and the nests in suitable drawers in the cabinets provided for the collection. He has also catalogued the North American portion of the collection, and will catalogue the rest as soon as he receives the catalogue book, which has been ordered for the exotic part of the collection. As soon as labels are provided, he will proceed to label the whole collection. An order has been given for the construction of four cases in the alcoves of the bird floor, for the public exhibition of a portion of the nests and eggs. The cases are being constructed with cabinets of drawers beneath, for the storage of the reserve collection, which, when these cases are finished, will be removed from the Curator's room to these cabinets, giving some much needed space for the storage of birds.

"Mr. Geo. B. Sennett's Collection, now on deposit at the Museum, is a very important addition to the scientific resources of the institution, and has already proved of great usefulness to the Curator of this department, to whom it is as freely accessible as if it were the property of the Museum. The collection is not only important as a general study collection of North American birds, but especially so on account of the very large series of rare Texas birds and birds' eggs it contains. As will be seen from the list of donations appended, Mr. Sennett has contributed a number of rare species of birds and mammals to our North American desiderata.

"OSTEOLOGICAL COLLECTION.—The mounted skeletons of mammals and birds, formerly kept in separate cases by themselves, have been distributed through the exhibition collections of mounted skins. In this way the cases occupied by the skeletons have become available for other uses, while the skeletons themselves are so arranged that they may be directly compared with the mounted skins of the same species. The collection of skulls and unmounted skeletons have been cleaned and catalogued, and cases having been fitted up for them on the stair-landing, the only available space, the collection is now secure from deterioration and conveniently accessible for use. The utility of skulls and skeletons is so great in the study of mammals that no opportunity to increase this collection should be neglected.

The Curator would here add that he feels greatly the need of assistance. He is sure of some volunteer aid from some of the young ornithologists of this city—excellent in quality, but wholly fortuitous, and therefore uncertain. If means could be made available for temporary assistance, when most needed, it would greatly expedite the work of the department. The Curator would also again call attention to the serious degree to which he is crippled in his work by the lack of important works of reference relating to birds and mammals, and would urge the meeting of this deficiency with the least possible delay."

DEPARTMENT OF MARINE ZOOLOGY.

"At the time the collections were removed from the Arsenal to the new building in Manhattan Square, the several departments were represented so largely in specimens, no provision could be made for the department of Marine Zoology. This being true at the early period of the occupation of the new Museum building, it follows that the rapidly increasing material in all departments contributed practically to exclude it indefinitely from public exhibition.

"An exceptionally fine collection of corals of Florida and West Indies, as well as those of the Indian and Pacific Oceans, had

become the property of the Museum. Also, an interesting and valuable display of sponges and the kindred beautiful forms, remained without provision in the new building.

"One of the many examples of exhibitions planned at this time consisted of a collection of commercial sponges, showing their economic value, as well as technical relations.

"The Fish Commission had presented most valuable material, the results of their dredgings on the North Atlantic coast.

"The large collection of fishes and reptiles in alcohol, and the most valuable one of mounted fishes and reptiles, purchased of Prince Maximilian, of Nieu Wied, Germany, remained stored at the Arsenal, unprovided at the new building with room for public exhibition.

"Besides these, great numbers of crustaceans, echinoderms and others of the lower forms of invertebrates remain in bulk, wholly out of sight of the public.

"Regarding the great degree of unfamiliarity prevailing, as to the nature of the vast numbers of our indigenous marine invertebrates, it is of the first importance that suitable room be assigned for their display. Indeed, the lack of exhibition space at the present time seriously endangers the proper growth of the department embracing such forms. The exceptional opportunities for collecting, generously accorded the Museum by the Fish Commission, are now of rare value, and not likely to occur again.

"In view of the manifestly unsafe situation of our collections stored at the Arsenal, it was thought wise to remove most of them, even though they be stored in the basement of the new building, and bestowed temporarily in cases which will soon be imperatively demanded for legitimate purposes of the respective halls.

"It will thus be seen that one whole, and a very important department of the Museum, embracing at present reptiles, batrachians and fishes, insects, crustaceans, mollusca, in alcohol, and the innumerable forms of lower invertebrates is practically excluded from suitable public exhibition. Perhaps a more definite idea of the importance of this exclusion may be obtained by stating that the above are embraced technically under every grand branch of the animal kingdom; the birds and mammals of one of the branches being the only exceptions to a complete summary.

"The collection of corals has been increased by a most important and beautiful gift from Percy R. Pyne, Esq., consisting of rare and exceptionally fine species from the Pacific Ocean.

"These have been placed on exhibition for the present in cases in the Hall of Mammals. The species have been named, and suitable labels attached.

"The collections of crustaceans, sponges and others have also been placed in the same locality.

"Besides the label attached to species, giving the name, technical name, and locality, other and larger labels are placed among the groups, explaining their nature and relations to others. This is an epitome of what is planned for the contents of a visitors' guide book, which, with some illustrations, is especially desirable.

"The larger Maximilian Collections of reptiles and fishes in alcohol, the mounted reptiles and fishes, and the invertebrates, in alcohol, having been named many years since, the very desirable task of identification and re-naming has been in progress, and will continue, in connection with other work, with reference to public exhibition, and the final cataloguing of species.

"A very considerable collection of duplicate specimens of Florida corals, in excellent form, remains for disposal by exchange or otherwise.

"A large collection of specimens of insects have for some time been stored in the somewhat unsuitable drawers used at the Arsenal. These have been removed to other and safer drawers, and placed in the Curator's room for greater security.

"The larger portion of the insects are handsomely displayed on the walls of the Hall of Birds."

LIBRARY.

"The additions to the Library, through various means, have been very satisfactory this year. The books and pamphlets received have amounted to—volumes, 396; Nos. and parts, 523; pamphlets, 381.

By Application	110	Vols.	190	Nos. and Parts.	61	Pamphlets.
Exchange (Bulletin) . . .	23	"	220	"	127	"
(Duplicates)	34	"			23	"
Donation	164	"	103	"	170	"
Purchase	65	"	10	"		
<hr/>						
Total	396	"	523	"	381	"

Number of volumes in Library,	Bound.	Unbound.	Nos. and Parts.	Pamphlets.
January 1st, 1885	3,412	1,115	1,458	2,671
Added during the year	282	114	523	381
<hr/>				
Total to date	3,694	1,229	1,981	3,052

"Bulletin No. 6, issued October 10th, 1885; of these and Nos. 1, 2, 3, 4, 5, there has been distributed this year 446 copies. The exchanges received for the same are equal to any previous year.

"The most important journals and proceedings that are in constant use should be bound; also the new books, for there is danger of losing parts and plates. I hope sufficient money will be provided for this purpose. I would also like to have cases built at the North end of the next room for the accommodation of Miss Wolfe's gift. We have already received one instalment."

THE DEPARTMENT OF PUBLIC INSTRUCTION.

"The room used for the lecture hall, the only available room in the building, is not large enough for the increasing demand for admission by the city teachers. It will comfortably accommodate about 300, a very small proportion of the 3,000 teachers of the city. With sufficient accommodation, it is probable that at least a thousand would be in regular attendance. On several occasions during the autumn just closed, from 100 to 150 teachers provided with tickets of admission (only a selected number being thus provided), were unable to gain admittance for want of room."

A reading of these reports will make it apparent how much the want of additional space both for exhibition and storage purposes is felt in all the departments. We have now arrived to the point where an additional building is imperatively demanded. The present structure is full to overflowing, and many interesting and important collections have to be kept in their boxes unpacked for want of space to exhibit them, and not even storage room remains for the specimens that may be offered. Unless we soon have another wing to our building, we fear the usefulness of the institution will be seriously retarded. It is calculated that by the time another wing can be erected, we will have accumulated enough material to more than fill the entire structure.

Strenuous efforts were made during the year to secure an appropriation for this purpose. The Trustees, in conjunction with the Commissioners of the Department of Public Parks, appeared before the Board of Estimate and Apportionment with that object in view, and up to the close of the year had hoped that their efforts had been successful. The appropriation, however, was not granted, and the embarrassment to the Museum and the public for want of a larger lecture hall and additional exhibition space still continues, and becomes greater with each day's delay.

MORRIS K. JESUP,

President.

THE AMERICAN MUSEUM OF NATURAL HISTORY, *in account*

1885.

RECEIPTS.

Balance from 1884 account,	\$ 242 68
From the estate of Wm. H. Vanderbilt,	50,000 00
“ Miss Catharine L. Wolfe,	3,586 80
“ Mrs. Robert L. Stuart,	1,500 00
“ Morris K. Jesup,	600 00
“ James M. Constable,	600 00
“ Percy R. Pyne,	600 00
“ Adrian Iselin,	600 00
“ John B. Trevor,	600 00
“ Heber R. Bishop,	600 00
“ D. O. Mills,	600 00
“ Hugh Auchincloss,	600 00
“ C. Vanderbilt,	600 00
“ J. Pierpont Morgan,	600 00
“ The estate of Robert Colgate,	600 00
“ Chas. G. Landon,	300 00
“ William E. Dodge,	300 00
“ Charles Lanier,	300 00
“ Hon. Abram S. Hewitt,	300 00
“ Joseph H. Choate,	300 00
“ Oliver Harriman,	300 00
“ Benjamin H. Field,	200 00
“ Harvey S. Ladew,	100 00
“ John Wolfe,	100 00
“ D. B. Ivison,	100 00
“ Mrs. A. O. Osborn,	100 00
“ W. H. Beadleston,	100 00
“ The State Superintendent of Public Instruction,	6,727 95
“ The sale of Guides,	183 05
“ Interest on Invested Funds,	300 00
“ The Department of Public Parks and Annual Members,	18,326 06

\$89,966 54

Examined { PERCY R. PYNE, } *Auditing*
and approved, { CHARLES LANIER, } *Committee.*

with J. PIERPONT MORGAN, TREASURER.

1885.

EXPENDITURES.

Paid for Salaries,		\$18,456 70	
“ Labor,		5,429 15	
“ Building cases and repairs on building,		2,477 89	
“ Coal,		586 50	
“ Supplies,		273 79	
“ Publishing Bulletin and Annual Report,		484 75	
“ Printing Guides,		768 88	
“ Printing and Stationery,		294 39	
“ Reception,		571 52	
“ Labels,		209 75	
“ Advertising,		171 99	
“ Postage and Car Fare,		255 94	
“ Poison and Sundries,		17 48	
“ Expressage, Traveling, and Custom }			
House Expenses,		172 17	
“ Architect's bill,		250 00	
“ Interest on debit balances, 1885,		87 90	
			\$30,508 80
Purchased Collection of Birds' Nest and Eggs,		\$2,000 00	
Birds and Mammals purchased,		2,410 57	
Geological and Mineralogical Specimens purchased,		414 65	
Reptile Department, Specimens purchased,		40 00	
Botanical Department, Improvements }			
to the Collection, }		50 00	
Books and Periodicals purchased,		1,138 94	
			\$6,054 16
Purchased Bonds for the “ Permanent En- }			
dowment Fund,” }			50,937 50
			\$87,500 46
Balance carried to 1886 account,			2,466 08

\$89,966 54

[E. & O. E.] NEW YORK, *January 28, 1886.*

J. PIERPONT MORGAN, *Treasurer.*

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.

§ 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.

§ 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.

§ 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.

§ 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 busi-

ness 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 offices 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. They shall have the con-

trol 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 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 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.

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DEPARTMENT OF BIRDS AND MAMMALS.

- H. B. BAILEY, New York City.
 40 skins of North American Birds.
 35 sets of Birds' Eggs.
 1 skin of Jumping Mouse.
- F. M. CARRYL, New York City.
 38 skins of Birds from New Jersey.
- GEORGE B. SENNETT, New York City.
 11 skins of rare Texas Birds.
 6 skins of Mammals.
- J. A. ALLEN, New York City.
 80 skins of Sea Birds, mostly Shearwaters and Petrels, from Chatham, Mass.
- DR. C. HART MERRIAM, Washington, D. C.
 Nests of North American Birds, including a peculiar nest of the Parula Warbler.
- W. E. D. SCOTT, American Flag, Arizona.
 11 Bird skins from Connecticut.
- ERNEST E. T. SETON, Toronto, Canada.
 13 specimens of small Mammals from Manitoba.
- JOHN B. GOLDMANN, New York City.
 2 Mounted Birds and Nest of Humming Bird.

DEPARTMENT OF MARINE ZOOLOGY.

- THOS. M. ALLEN, 19 Park Avenue, New York City.
 A collection of Reptiles in alcohol, from the Republic of Guatemala.
- A. WOODWARD, New York City.
 Fifteen specimens, one species Sea Urchins, from Portland, Me., and specimens of their interior structure.
- L. P. CHILD, 26 Exchange Place, New York City.
 Two Stag Beetles (*Lucanus dama*), and a Reptile (*Aneides lugubris*), both species from North Carolina.
- T. C. RUNKLE, 144 Light Street, Baltimore, Md.
 Specimens of the "Seventeen Year Locust" (*Cicada*), from Baltimore.
- WEBSTER DEACON, through G. W. Wright, Staten Island, N. Y.
 A specimen of *Corydalis*, and a Lamellicorn Beetle.
- J. B. SNIFFEN, 5 East 42 Street, New York City.
 Several Insects, and vertebræ of Black Snake (*Bascanion*).
- W. E. D. SCOTT, American Flag, Arizona.
 Specimen of *Heloderma horrida*.
- COL. NICHOLAS PIKE, Brooklyn, N. Y.
 A "Pine Snake" (*Pityophis*), and four specimens of a Turtle (*Melacoclemmys geographicus*).
- FROM THE SMITHSONIAN INSTITUTION, through Fish Commission.
 126 specimens (26 species) of Crustaceans, dredged by "Albatross" in American Atlantic Waters; in alcohol.
- PERCY R. PYNE, Esq., New York City.
 A collection of East Indian and Florida Corals, consisting, inclusive of a few specimens of Echinoderms, Crustaceans, &c., of 125 specimens.

GEOLOGICAL DEPARTMENT.

- T. H. ALDRICH, Cincinnati, Ohio.
Thirty species of rare Eocene Fossils from Alabama and Mississippi.
- H. BOOTH, Poughkeepsie, N. Y.
10 species, 11 specimens from the Cretaceous and Miocene of the West.
- F. BRAUN, New York.
One specimen (*Ostrea divaricata* Lea,) Eocene, Alabama.
- N. H. DARTON, Brooklyn, L. I.
37 specimens of Lower Helderberg Fossils from near Cornwall, N. Y.
- PROF. DOUGLAS, Spuyten Duyvil, N. Y.
1 specimen of *Michelinia convexa* d'Orbigny, Cayuga, Canada.
- MISS F. M. HITCHCOCK, New York City.
A fine slab of *Gorgonia? antiqua* Hall, Trenton Limestone, Herkimer County, N. Y.
- I. T. HAZEN, West Park, N. Y.
Specimens of Utica Slate with Graptolites; five miles above Poughkeepsie, N. Y.; west side of river.
- ELIJAH A. HOWLAND, New York.
End of Mastodon Tusk found at Inwood, N. Y.
- G. VAN INGEN, Poughkeepsie, N. Y.
2 specimens of Utica Slate with *Graptolithus divergens* Hall.
- G. W. LAMPLAUGH, England.
Several species of Post-Pliocene Fossils from glacial till at dry-dock. Esquimalt, Vancouvers Island, West Coast of America.
- MISS SARAH P. MONK, Cold Springs, N. Y.
1 specimen of *Dictyophyton fenestratum* Hall. Chemung Narrows, N. Y.
1 specimen of *Ammonites Tornatus* Brown. St. Cassian Beds, Germany.
- A. O. OSBORN, Waterville, N. Y.
Species of Pupa; Nassau Bahamas.
- W. J. WALLACE, New York.
1 large slab of Oriskany Sandstone. Cobleskill, Schoharie Co., N. Y.
- A. WOODWARD, New York.
6 specimens Brachiopods and Lamellibranchs, from Cumberland, Md.

MINERALOGICAL DEPARTMENT.

- R. BELL, Ottawa, Can.
1 specimen of Labradorite, from Labrador.
- PROF. A. S. BICKMORE, New York, through Gen'l D. B. Warner, United States Consul at St. John's, N. B.
1 specimen of Albertite. Helsbough, N. B.
- F. BRAUN, New York.
Crystals of Pyrite from vein in Hoboken Trap.
1 specimen of Anthophyllite. Brooklyn, L. I.
- F. L. CISCO, Staten Island, N. Y.
Serpentine (*marmolite*). New Brighton, Staten Island, N. Y.
1 specimen of Asbestiferous Serpentine, from Staten Island.

- COPPER QUEEN CONSOLIDATED MINING CO., through Mr. W. E. Dodge.
 7 specimens of Malachite, of which two were very large and beautiful examples of Plumose Malachite; 5 specimens of Azurite, including one very large and beautiful example, crystallized; 6 very fine examples of Stalactitic forms; all from Bisbee, Arizona.
- N. H. DARTON, Brooklyn.
 1 specimen of Sarmarskite. Yancey County, N. C.
 1 specimen of Prebnite. West Paterson, N. J.
- PROF. DOUGLAS, Spuyten Duyvil, N. Y.
 20 specimens of Mineral Species from many localities. All cabinet specimens.
- I. EYERMAN, Easton, Pa.
 Sphenoidal Chalcopyrite, Octahedral Pyrite, Byssolitic Calcite and Apophyllite, from St. Peters. Warwick, Chester County, Pa.
- GRAND BELT COPPER CO.
 2 specimens Lignite with Gypsum, four specimens Kidney Copper; from Hardeman County, Texas.
- R. C. HAHN, New York.
 10 examples of polished Crocidolites. Cape of Good Hope, Africa.
- GEN'L HOLDEMAN, United States Minister to Siam.
 1 specimen of Trachyte from the block contributed by Emperor of Siam to the Washington Monument.
- DR. J. B. HOLDER, New York.
 1 specimen of Molybdenite, 1 specimen of Fahlnite; both from New Hampshire.
- W. W. JEFFERIS, Philadelphia, Pa.
 8 specimens of Minerals from Chester County, Pa., and from St. Lawrence County, N. Y.
- S. T. LIPPINCOTT, New York.
 9 specimens, embracing "Coal Nuts" and Anthracite from Lehigh County, Pa., and Pyrite from Lehigh and Luzerne Counties, Pa.
- R. McNAUGHTON, Nova Scotia, through S. D. Dill, New York.
 1 specimen of Gold Quartz, 1 specimen of massive Stibnite; both from Hauts County, Nova Scotia.
- GEO. P. SENNETT, Meadville, Pa.
 1 large specimen of Graphite. Bloomingdale, N. Y.
- PT. STAUNTON CENTRAL MINING CO., Lake Superior.
 1 very fine specimen of crystallized Copper. Lake Superior, Mich.
- J. C. TAYLOR.
 Argentiferous and Auriferous Pyrite. Westport, Conn.
- W. J. WALLACE, New York.
 Calcite on a Siliceous Limestone. Stuyvesant, Columbia County, N. Y.
- D. D. WHITLOCK, JR., New York.
 1 block of Dolomite. Westchester County, N. Y.
- S. L. WILSON, Conn.
 2 specimens of Garnet in Mica. New Milford, Conn.
- H. T. WOODMAN, New York.
 14 specimens of Muscovite (very fine), from Virginia.

EXCHANGES.

GEOLOGICAL DEPARTMENT.

Miss SARAH P. MONKS, Cold Springs, N. Y.

For labels, 121 specimens of Fossil Shells. San Pedro, Cal.

W. WHEELER, Washington University, St. Louis.

2 slabs of *Melonites multiporus* O. & W. St. Louis Limestone, St. Louis, Mo.

LIBRARY.

A. WOODWARD, New York City.

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—Wagner.

"Urweltliche Säugthier-uerresta aus Griechenland."—Wagner.

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Lovetzky.

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of Essex Institute."—Cones.

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tellten Amphibien und Reptilien, etc.—Muller.

"Sur les espèces Insulindiennes de la famille des Nandoides."—Bleeker.

"Notice sur la Sousfamille des Halacanthiformes."—Bleeker.

"Sur le genre Parapristipoma, etc."—Bleeker.

"Faune Ichthyologique de la Nouvelle-Guinée."—Bleeker.

Über die Eintheilung der Caecilien und über die Gattungen, *Rhinat-*
rema und *Gymnopsis*.—Peters.

Some Runic Stones in Northern Sweden.—Stephens.

"Zur Morphologie der samenträgenden Schuppe des Abietineen-
zapfens."—Willkomme.

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"Notice sur deux nouvelles Espèces d'Oiseaux du Brésil."—Beckle-
michew.

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"Tentamen de Abrotanis."—Besser.

"Ueber androgyne Blütenstände bei solchen Monöcisten und Dio-
cisten."—Bail.

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FRANK HERR, New York City.

The Old Red Sandstone.—Miller.

- S. LOWELL ELLIOT, New York City.
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 " " " —Dufossé.
 " " 401.—Schmidt.

MINERALOGICAL DEPARTMENT.

- H. J. JOHNSTON, Lavis, Naples, Italy.
 136 Lithological and Mineralogical specimens illustrating the Volcanology of Southern Italy, comprising Trachytes, Limestones, Tufas, Pumice, Ash, &c., &c.
- N. H. DARTON.
 1 specimen of Thread Malachite. Arlington, Hudson County, N. J.
 2 specimens Pyrolusite, Nova Scotia; 2 specimens Willemite, Franklin Furnace, N. J.; 1 large specimen of Serpentine, Montville, N. J.

CONCHOLOGICAL DEPARTMENT.

- F. L. CISCO, New York.
 9 specimens of *Donax fossar* Say. Long Island Sound.
- FLAVEL S. MINES, New York.
 1 specimen of *Cerithium nodulosum* Bing.
- Miss SARAH P. MONKS.
 Shells from beaches of Southern California, belonging to the Genera Chilostoma, Bulla, Drillia.

PURCHASES.

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- Report of the H. M. S. Challenger. Vol. X. Zoology.
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 and Austin.
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- 53 Mounted Mammals.
 38 Mounted Birds.

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