



THE TWELFTH

ANNUAL REPORT,

OF THE

American Museum of Natural History,

CENTRAL PARK, NEW YORK,

77th Street and 8th Avenue,

—+—
FEBRUARY 15TH, 1881.
—+—

NEW YORK :

THITCHENER & GLASTAETER, PRINTERS,
Nos. 14 & 16 VESEY STREET.

1881.





ART&TYPE

HARROUN & BIERSTADT, N.Y.

Lower Hall: Mammals, Shells.

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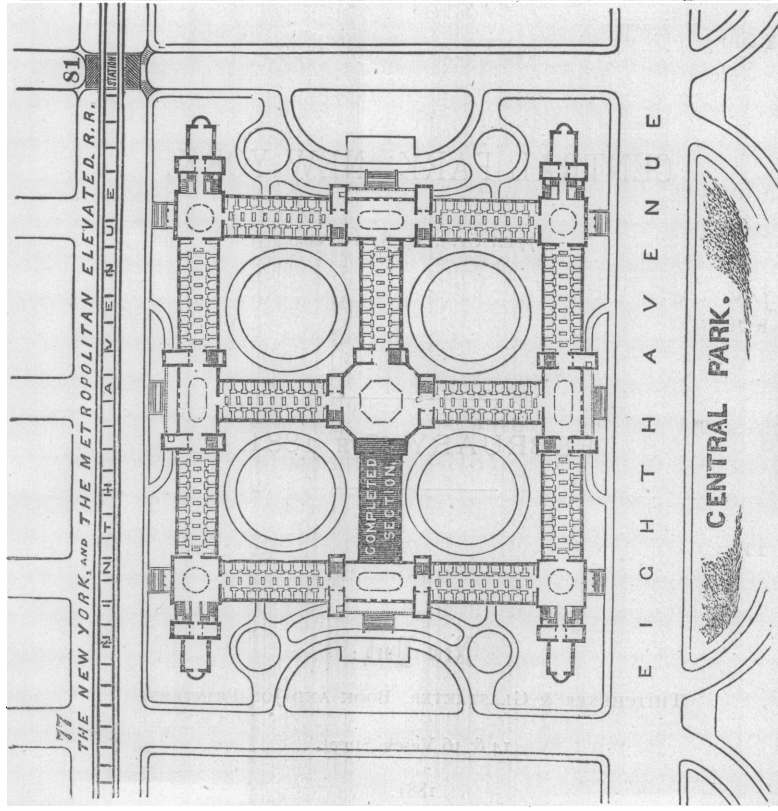
FEBRUARY 15TH, 1881.

New York:

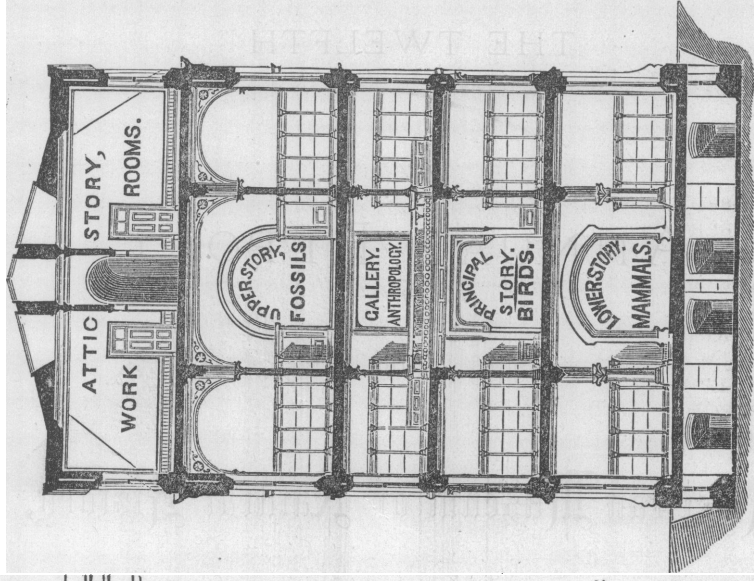
THITCHENER & GLASTAETER, BOOK AND JOB PRINTERS,

14 & 16 Vesey Street.

1881.



GROUND PLAN.



TRANSVERSE SECTION.

American Museum of Natural History.

Trustees.

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JOHN B. TREVOR.

CHARLES LANIER.

PROF. ALBERT S. BICKMORE, SUPERINTENDENT.

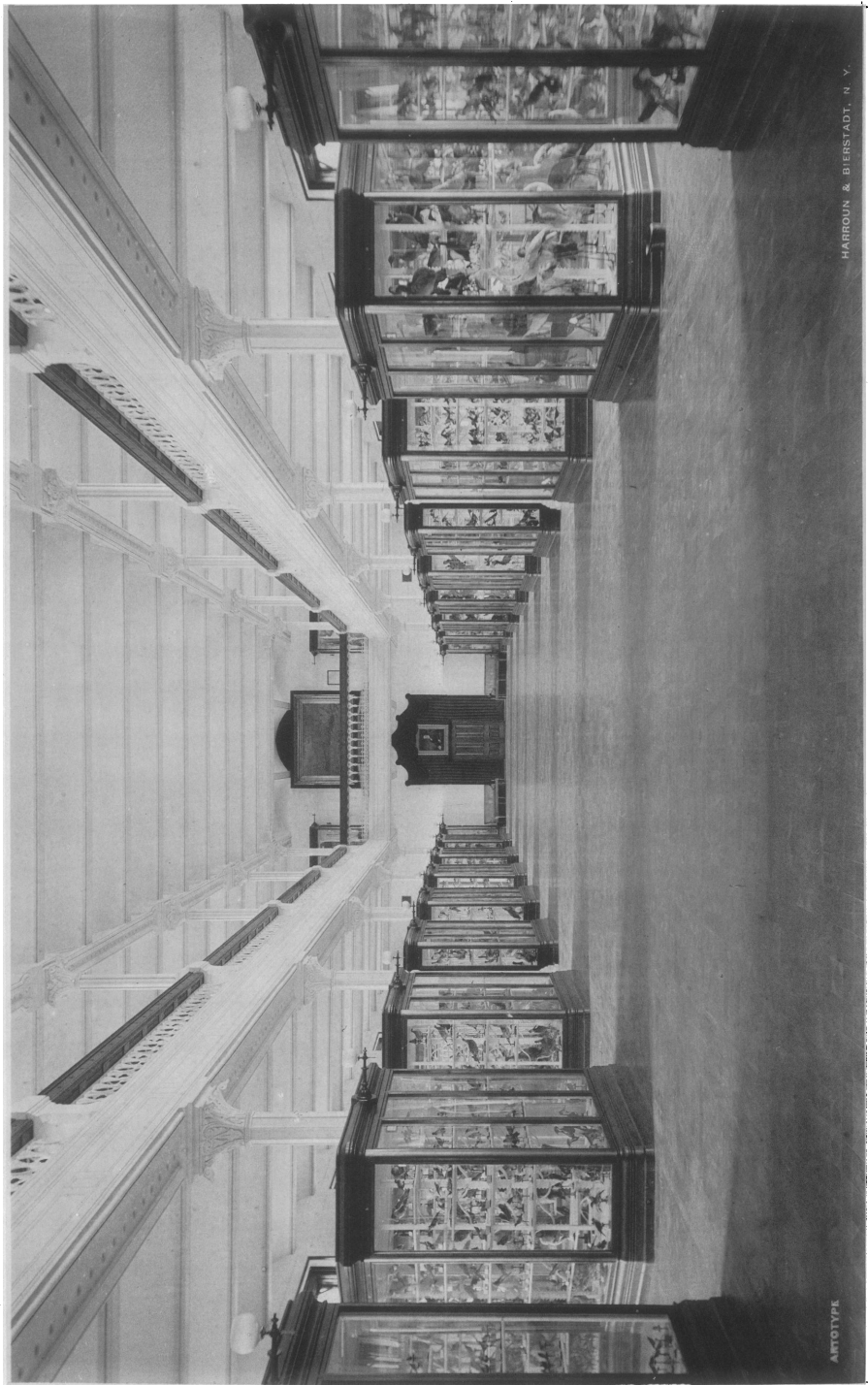
PROF. R. P. WHITFIELD, CURATOR OF GEOLOGY.

DR. J. B. HOLDER, CURATOR OF ZOOLOGY.

J. J. BARGIN, ASSISTANT SECRETARY.

L. P. GRATACAP, ASSISTANT CURATOR OF MINERALOGY.

A. WOODWARD, ASSISTANT IN GEOLOGY.



ARTOTYPE

HARROUN & BIERSTADT, N. Y.

Main Hall, Birds.

Twelfth Annual Report.

1880.

THE Trustees of the American Museum of Natural History have the pleasure of presenting this, their Twelfth Annual Report, to the Patrons, Fellows, and Members of the Museum.

In accordance with our purpose that some new feature of usefulness shall be added to the institution each year, we have the pleasure to state that through the liberality of a member of our Board, Mr. Morris K. Jesup, an Economic Department has been established, which will contain specimens in Economic Botany of all the woods of our country, that are or may be used for architectural or building purposes, or in the manufactures—as gums, resins, and dyewoods. Each species will be fully illustrated by specimens of the leaf, flower and fruit. The Museum has had the good fortune to secure, free of charge, the able services of Prof. Chas. S. Sargent, of Brookline, Mass., who is now preparing for the Tenth U. S. Census, under Gen. F. A. Walker, an elaborate report upon the Forest Wealth of the United States.

The specimens we are receiving will be fully described by Professor Sargent and his able corps of assistants, and will completely illustrate the scientific and popular information that they are gathering and placing in their volume of the Census Series, which is soon to be issued in large numbers by the National Government. Our collection will therefore have a

peculiar and permanent value in being the standard series for future reference and careful study in this important branch of the industries of our people.

This Department will also include specimens in Economic Geology, which shall exhibit in all their varieties the granites, sandstones, limestones, marbles, slates, clays for brick and tile, and sands for glass, that are known in America. We are in correspondence with Dr. George W. Hawes, who with the aid of a large corps of prominent geologists, is preparing a report for the Census, upon the quarries and ornamental and building stones of our country, and we anticipate securing his active co-operation in gathering and preparing for exhibition the exhaustive series of specimens we desire. These collections will be so amply and scientifically labelled and illustrated, that it will be a source of instruction for the artisan and laboring classes of our citizens, and the pupils of our public schools, whom it is our special desire to benefit. It will be supplemented by a gathering of all the maps, plans and photographic views, that have yet been published on these subjects, and such valuable data will be accessible to all desiring detailed information, as builders, architects, or persons erecting private dwellings.

Such costly collections should be gathered only into a fire-proof edifice, and as our new building is already filled to overflowing, we shall soon be compelled to apply to the Municipality and the Legislature, for the means to erect another wing as large as our present structure.

Desiring that our institution might take an active and efficient part in the education of the pupils of our public schools, a letter was addressed to the Commis-

sioners of the Department of Education, expressing our willingness to have a course of introductory lectures to the study of zoology, delivered at our expense, to the Principals and the Teachers of natural history in their Primary Schools. Our communication was referred by that Board to its Committee on Course of Study and School Books, who made the following report, which was unanimously approved by the Board and forwarded us a reply to our letter :

"That, in the judgment of the Committee, the proposal of the American Museum of Natural History to make its admirable collection available for the Educational System of New York, deserves the acknowledgment of this Board.

That the Committee believe that the children of the Public Schools should be encouraged to visit the Museum at such time as they may have at their disposal, being convinced that even the immature or uncultivated minds of children receive most fruitful impressions from even a cursory and superficial acquaintance with the objects presented and arranged in such collections.

The arrangement of the course of studies for the schools would not permit any disposition by which the children could be allowed or encouraged to frequent the Museum on school days, and it is believed that such is not the purpose of the communication of the Executive Committee of the American Museum of Natural History.

That the very simple elements of Natural Science taught in the Public Schools, are imparted, almost entirely, in accordance with the requirements of the course of study, by oral instruction, and that but little time is allowed to them. Your Committee, while not recommending any increase either in the amount of instruction in Natural Science, or in the time devoted to it, are of opinion that the existing requirements of the by-laws, in this particular, should be fully complied with. For this purpose the teachers themselves should be thoroughly instructed in the branches in question.

Oral instruction especially requires, on the part of the teacher, a thorough familiarity with the subject.

The proposal of the Executive Committee of the American Museum of Natural History, it is understood, embraces a plan of gratuitous colloquial lectures, to be delivered on any day that may be selected, to a class numbering about twenty-five or thirty, the course to consist of not less than six lectures. Your Committee believe that such a class could readily be formed by voluntary action among the teachers, directed by the City Superintendent, Saturday being the day selected for the lectures, when the school work would not be interfered with.

The creditable ambition displayed by the teachers who would embrace this opportunity of improvement would result greatly to their own advantage, as well as to that of the children falling under their instruction. It may be stated that the Professors of the Normal College have visited the Museum with their pupils, and profitably used the collection for illustration of their own lectures.

The Committee submit the following resolutions:

- Resolved*, That the City Superintendent be instructed to issue a circular calling attention to the collections of the American Museum of Natural History, as an educational feature, and the desirability of its being visited on Saturdays and holidays by teachers and pupils; and that he also be requested to select a class of teachers who will volunteer to attend a course of free lectures on Saturdays, to be delivered through the courtesy of the Executive Committee of the American Museum of Natural History.
- Resolved*, That a copy of the above report and resolution be transmitted to the Executive Committee of the American Museum of Natural History.

DECEMBER 23, 1880.

A class of Principals and Teachers has been selected to the number of thirty, all that can be accommodated at one time in our present rooms. Professor Bickmore has been requested to deliver the lectures and they are now in progress. The enthusiastic interest of the teachers in this branch of natural science, as proven by their constant attendance in the severest weather, has far exceeded our anticipations, and is a most gratifying indication of the wide and important field of usefulness our institution is destined to occupy as a means of educating the youth of our city.

In order to render the collections already begun as complete as possible before purchasing specimens in other departments, the trustees, after defraying all the indebtedness of the institution, contributed during the last year the sum of \$6,500 for an improvement fund, which has been expended in perfecting the specimens already bought or donated in previous years. Many of the mammals purchased from the estate of the late Prince Maximilian have been partially or wholly remounted, and the specimens in the whole department are now ready to be placed on stands of a uniform pattern. The two cases at the south end of the lower hall have been enlarged to receive the camel, wapiti and moose. The most im-

portant addition to this department has been a group of five ourang-outangs; two adult males, two adult females, and one young male, from Borneo. All the specimens are perfect and mounted in most natural attitudes, and prove to be the most attractive feature of our exhibition on that floor. They were presented with the case, complete, by Mr. Robert Colgate.

Our fine collection of crania have been mounted in the natural position on mahogany stands and placed in case A, with three complete skeletons of natives of Australia, presented by Mr. Morris K. Jesup.

A fine case of water birds presented by the estate of the late Elias Wade, Jr., is placed on the first landing of the stairway. Six hundred bird-skins presented by Mr. D. G. Elliot, and received in exchange from the Smithsonian Institution, have been mounted and placed on exhibition, and nearly four thousand birds, including all of the Maximillian collection, and some from that of Verreaux, have been transferred to new stands of polished mahogany. This change has proved to be such an important improvement that the remaining white stands, though the best we have been able to purchase in Europe, will now have to be replaced in a like manner, that the whole collection may be improved in the most complete manner, and present an entirely uniform aspect.

In the Department of Ethnology and Archæology a gift has just been received from the widow of the late Prof. S. S. Haldemann, of domestic utensils, and dresses of the natives of British Guiana, and of stone implements from various parts of the United States, particularly from near his home at Chickies, Pennsylvania. Mr. H. R. Bishop has arranged with Dr. J. W. Powell,

Superintendent of Indian Affairs in British Columbia, to forward us as rapidly as they may be gathered, a complete series of the ethnological specimens of that region, and has already presented a few valuable ornaments obtained at Victoria, Vancouver's Island.

Two large photographic transparencies of ancient pueblos and cave dwellings in Colorado have been presented by Prof. J. W. Powell, and placed in a window on the west side of the gallery.

In the Geological Hall, a series of specimens have been placed in the upright part of the desk-cases, to illustrate the American portion of Dana's Manual of Geology. They are marked "Dana's Manual Series," and each has a label giving its present scientific name, and the page and figure where it will be found in that popular text book. Nearly two-thirds of the American species are already exhibited in the cases, and all the others will be added, where the species represented are not unique.

All the fossils have been identified and labelled in one of the upright cases, and preliminary labelling completed in three others. Six geological maps of the eastern part of the United States have been placed in the alcoves, near the specimens of the latest period represented upon them. The first series of the duplicates of the Hall collection has been presented to the Smithsonian Institution, and in partial return they have sent us, in alcoholic collections, 103 species, 107 specimens of the fishes of the Pacific coast, and two cases of reptiles, and will forward us "Collection D," or the fourth series of all the specimens dredged on the Atlantic coast during the past six summers by the U. S. Fish Commission. The second series of the Hall duplicates

has been sold to Madison University, and with a part of the sum received, a fine series of crinoids and other fossils have been purchased, consisting principally of lower carboniferous forms from Crawfordsville, Ind.

The sixth and seventh series of Hall duplicates have been delivered to Prof. C. H. Hitchcock, to complete an exchange by which we have received 2,000 specimens of the lithology of New Hampshire, 13 geological sections across New Hampshire and Vermont, the *types* of the Brandon fruits, and all the rocks and fossils that are described in his geological reports in the state of Maine. These specimens illustrate the results of his geological observations for ten years in New Hampshire, five years in Vermont, and two years in Maine.

Series 3 to 10, of the Hall duplicates remain for sale.

A rare series of rocks and fossils from Texas has been presented by the International and Great Northern Railroad of that State. Prof. J. W. Powell has added to the alcove containing his previous gifts, two large transparencies of the "Gate of Lodore" and "Eagle Crag," in Colorado. Dr. E. A. Parsons has presented 136 specimens of post-tertiary fossils, from the vicinity of Portland, Maine.

Mr. J. W. Drexel has presented his collection of lepidoptera, numbering 2,200 specimens, and also three unique volumes of the greatest value and interest, containing all the diplomas conferred on Baron Alexander Von Humboldt, by the crowned heads and learned societies of the world.

Mr. C. P. Huntington has deposited with us, Bradford's large painting of "The Polaris in Thank-God Harbor, Greenland;" and it has been placed at the southern end of the gallery near the collections of

Eskimo dresses and implements, and illustrates in the most impressive manner the scenery in the land from which those specimens come.

A catalogue of each Department is in course of preparation, which will render our collections of still further practical utility. These additions and improvements have brought us an increased number of visitors, who have thus manifested their interest in the continued development of our institution.

The Board of Estimate and Apportionment have appropriated \$35,000 for the improvement this year of Manhattan Square. The Department of Public Parks have been requested to join us in soliciting the State Legislature to grant the means for making suitable entrances into Central Park at 81st and 77th Sts., that our Museum may become properly accessible to the thousands of visitors to the Park from our own city, and from all parts of our land. A footpath is now also imperatively needed, leading as directly as possible from our Square to the Metropolitan Museum of Art.

An indication of the great interest taken in the Museum by its trustees, and of their high estimate of the importance of its present and steadily manifested increasing usefulness, is shown by the fact that they alone have already contributed to the collections of the Museum a sum of over \$110,000, and now they most respectfully appeal to the generous citizens of New York, to aid in the effort to make our Metropolitan City the centre of the highest scientific culture in our land, and to join in adding new collections and new departments to the admirable nucleus which has been already secured.



HARBOUN & BIERSTADT, N. Y.

ART-CITY

Upper Hall, Fossils.

Dr. The American Museum of Natural History in acc't with J. PIERPONT MORGAN, TREASURER. Cr.

1880.

Salaries.....	\$9,180 00
Labor.....	3,472 65
Collections purchased.....	2,427 50
Coal.....	572 89
Insurance on Collections at Arsenal.....	150 00
Repairs, Fixtures and Furniture.....	413 64
Printing and Stationery.....	637 08
Postage, Car Fare and Traveling Expenses.....	203 90
Freight and Expressage.....	81 22
Supplies for Building.....	131 34
Advertising.....	55 04
Sundries.....	634 66
Improvements on the Collections.....	5,661 82
Old debts paid, 1878 account.....	537 74
Balance carried forward.....	2,519 59

\$26,669 07

Examined and approved { ROBERT COLGATE, } Auditing Committee.
JAMES M. CONSTABLE, }
(CHARLES LANIER, }

1880.

Feb. 10. By Balance from last account.....	\$788 85
By Cash from Robert L. Stuart.....	1,000 00
" " C. Vanderbilt.....	1,000 00
" " Percy E. Pyne.....	600 00
" " Morris K. Jesup.....	600 00
" " Hugh Auchincloss.....	500 80
" " J. M. Constable.....	500 00
" " Joseph W. Drexel.....	500 00
" " Robert Colgate.....	500 00
" " F. W. Stevens.....	500 00
" " John B. Trevor.....	500 00
" " W. E. Dodge, Jr.....	450 00
" " Adrian Iselin.....	250 00
" " Charles Lanier.....	100 00
" " Oliver Hartman.....	50 00
" " Cyrus W. Field, Jr.....	500 00
" " Robert Gordon.....	100 00
" " Howard Potter.....	100 00
" " Chas. M. DuCasta.....	100 00
" " Cyrus H. Loutrel.....	100 00
" " A. A. Raven.....	100 00
" " H. D. Van Nostrand.....	100 00
" " George Richards.....	100 00
" " Dr. D. A. Dodge.....	100 00
" " John Fitch.....	100 00
" " Mrs. B. L. Andrews.....	100 00
" " Mandeville Mower.....	100 00
" " Jas. O. Sheldon.....	191 92
Insurance premium returned and sundry bills refunded.....	
By Cash received from the sale of Duplicate Specimens of the Hall Collection.....	1,750 00
From Dept. of Public Parks and Annual Members.....	14,983 80
	\$26,669 07

[E. & O. E.] New York, January 1st, 1881.

J. PIERPONT MORGAN, Treasurer.

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.

The officers of the said Corporation shall be a President, a First and Second Vice-President, a Secretary and a Treasurer, and 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 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 practical; 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 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 meeting 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 two thousand five hundred dollars to the funds of the Museum, at one time, shall entitle the person giving the same to be a Patron of the Museum.

The contribution of one thousand dollars, at one time, shall entitle the person giving the same to be a Fellow in Perpetuity.

The contribution of five hundred dollars, at one time, shall entitle the person giving the same to be a Fellow for Life.

Any person may be elected by the Trustees to either of the above degrees, who shall have donated to the Museum books or specimens 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 elect Honorary Fellows of the Museum in their discretion.

All persons receiving such degrees and diplomas shall be entitled, at all times, to free admission to the Museum and its Exhibitions, but shall not, by virtue of such degrees or diplomas, become members of the Corporation.

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 \$2,500 are each entitled to 10 Complimentary Season Tickets, 1 Subscriber's Ticket and 10 Tickets for a single admission.

Fellows in Perpetuity giving \$1,000 are each entitled to 5 Complimentary Season Tickets, 1 Subscriber's Ticket and 10 Tickets for a single admission.

Fellows for Life giving \$500 are each entitled to 4 Complimentary Season Tickets, 1 Subscriber's Ticket and 10 Tickets for a single admission.

Associate Fellows giving \$250 are each entitled to 3 Complimentary Season Tickets, 1 Subscriber's Ticket and 10 Tickets for a single admission.

Members giving \$100 are each entitled to 2 Complimentary Season Tickets, 1 Subscriber's Ticket and 10 Tickets for a single admission.

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

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 Fellow in Perpetuity" 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 the 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.

DONATIONS.

1880.

MRS. THOMAS SAY, N. Y.

- 1 Volume Michaux's "Flora Americana."
- 4 " Binney's Land Shells.
- 3 " Sowerby's Genera of Recent and Fossil Shells.
- 3 " Say's American Entomology.

PERCY R. PYNE, Esq., N. Y.

"Atlas to the Coal Flora of Pennsylvania."—Lesquereux.

JOSEPH W. DREXEL, Esq., N. Y.

- A collection numbering 2,235 specimens of Insects, Butterflies, Moths, etc.
- Lot of Crustaceans.
- 4 Birds of Paradise.
- 3 Trogons.
- 16 South American Birds.
- 1 Rifle Bird.
- 1 Iguana.
- 1 Albino Squirrel.
- 3 Humming Birds.

CINCINNATI SOCIETY OF NATURAL HISTORY, Cincinnati, Ohio.

- Journal, Vol. II, Nos. 3 and 4.
- " " III, Nos. 1, 2 and 3.

Through the SMITHSONIAN INSTITUTION, Washington, D. C.

- K. K. Geologischen Reichsanstalt, Wien.
- Verhandlung 1879 and 1880.
- L'Institut Royal, Grand-Ducal de Luxembourg.
- "Publications" Tome XVII, 1879.
- Catalogue du Ministère de l'Instruction Publique. Exposition Universelle de 1878. Paris. 4 vols. Catalogue. Section Belge, I vol.
- La Société Royale Hongroise des Sciences Naturelles. Budapest.
- Herman.—Ungarns Spinnenfauna, III Band.
- Hidegh.—Chemische Analyse Ungarischer Fäherleze.
- Spinnyei.—Bibliotheca Hungarica Historiæ Naturalis et Matheseos Catalog der Bibliothek der Ung. Naturwissenschaftl. Gesellsch.
- Anales del Museo Nacional de Mexico. Tomo II. Entrega 1a and 2a.
- Royal Society of Tasmania. Report for 1878.
- Gesamnten Naturwissenschaften. Berlin. Zeitschrift. 1879.
- Musée Royal D'Histoire Naturelle de Belgique.
- Annales. Tome IV and V.
- Philosophical Society of Washington.
- Bulletins Nos. 1, 2 and 3, 1871 to 1880.

- ROBERT L. STUART, Esq., N. Y.
 2 fine specimens *Gogonia* (sea feathers.)
 9 Nos. of the "Atlas Ichthyologique."
 8 volumes "Zeitschrift fur Wissenschaftliche Zoologie."
 5 Vols "Naturkundig Tijdschrift voor Nederlandsch-Indie."
 22 Nos. "Archiv fur Naturgeschichte Wiegmann."
 4 Nos. of the "Journal des Museum Godefroy."
- PHILIP HECHT, N. Y.
 1 North American Indian Pouch.
- HON. SAMUEL SLOAN, N. Y.
 Specimens of the Woods of Texas.
- DR. ISAAC LEA, Philadelphia, Pa., (the author).
 1 volume "Contributions to Geology."
- HON. LEVI P. MORTON, N. Y.
 1 volume "Fresh Water Rhizopods of N. A." Leidy. 1879.
- DEPARTMENT OF AGRICULTURE, Washington, D. C.
 Report for 1878.
- The late ELIAS WADE, through Chas. E. Beebe, Executor, N. Y.
 17 American Water Birds in Rosewood Case.
 38 Specimens of American Birds.
- INTERNATIONAL & GREAT NORTHERN R. R., through Mr. Yaukum.
 68 Species of Fossils from Texas.
 116 Specimens illustrating the mineral and industrial products of Texas.
 30 Specimens of Recent Shells.
 2 Teeth of Mastodon.
- ASTOR LIBRARY, N. Y.
 Report of the Trustees, 1879.
- AMERICAN CHEMICAL SOCIETY, N. Y.
 Journal, Vol. 1, No. 12, 1879.
- MUTUAL LIFE INSURANCE CO., N. Y., through F. S. Winston, Esq., Pres.
 "Proceedings of the Trustees relative to the death of their associate, W. A. Haines."
- STATE OF WISCONSIN, through the Supt. of Pubic Property, Madison, Wis.
 "Vol. III of the Final Report of the Geological Survey," and Atlas.
- STATE MUSEUM OF NATURAL HISTORY, Albany, N. Y.,
 through Prof. James Hall.
 24th, 27th, 28th, 29th, 30th and 31st Annual Reports.
- JOHN G. WALSH, Tokio, Japan.
 Japanese Rain Dress.
 1 large piece of Bamboo.
 2 doz. fine Arrows.
 Japanese Musical Instruments.
 India-ink Box.
 1 Wooden Pillow.
- JAS. MUHLENBURG BAILEY, N. Y.
 1 Vol. "Say's Conchology."
 1 " "Swainson's Conchology."
 1 " "Hist. Nat. des Animaux."—Chenu.
 3 " "Recreative Science."
 12 " "Intellectual Observer."

MRS. A. LE PLONGEON.

1 Terra Cotta Vase, made by the Pigmies, Island of Cozumel,
British Honduras.

PEABODY MUSEUM OF AMERICAN ARCHÆOLOGY & ETHNOLOGY
Cambridge, Mass.

12th and 13th Annual Reports, 1880.

——— HARBOTTLE, Esq.

Gold and Silver Ores from San Juan Co., Col.

HISTORISCHEN VEREINES FÜR STEIERMARK.

Mittheilungen 1879.

Beiträge 1879.

G. L. FEUARDENT, Esq., N. Y.

2 nests of the Weaver Bird of India.

Several Spines of Fossil Sea Urchins.

LEVY, DREYFUS & CO., 11 Maiden Lane, N. Y.

1 Doz. Thermometers.

ZOOLOGICAL SOCIETY OF PHILADELPHIA.

8th Annual Report, 1879.

S. S. STEVENS, N. Y.

Tail of Rattlesnake with 24 rattles.

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1 Zulu Spear.

2 Ostrich Eggs.

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Sea Horse and Crustacea from Gulf Weed.

Model of a Catamaran of the Coast of Brazil.

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Specimen of the South African Diamond.

HERMAN LUTE.

12 Specimens (5 species) Diurnal Lepidoptera.

RANKIN DAWSON, Esq.

Fragments of Pottery.

SMITHSONIAN INSTITUTION, Washington, D. C.

A Series of North American Fishes collected by the U. S. Fish
Commission.

118 Specimens (74 species) of North American Reptiles.

Vol. 22, "Contributions to Knowledge."

Vols. 16 and 17, "Miscellaneous Collections."

Annual Report, 1878.

Report of the U. S. Fish Commission, 1878.

P. W. SHEAFER, Pottsville, Pa.

A Pamphlet on "The Anthracite Coal Fields of Pennsylvania and
their exhaustion."

L'ACADEMIE ROYALE DE COPENHAGUE.

Bulletin pour 1880, No. 1.

" " 1879, " 3.

CAPTAIN A. C. YATES, N. Y.

3 Human Skulls.

1 Snake Skin.

1 lot of Prepared Food.

1 piece Potash Earth.

2 Ivory "Arm Rings."

} From the East Coast of Africa.

- DR. J. VON HAAST, Canterbury Museum, New Zealand, (the author.)
 "Geology of Canterbury and Westland."
- STATE OF INDIANA, through John Collett, Esq., Chief of the Bureau of
 Statistics and Geology, Indianapolis.
 1st Annual Report of the Department, 1879.
- SIEBENBURGISCHEN FÜR NATURWISSENSCHAFTEN, Hermannstadt.
 Verhandlungen und Mittheilungen, XXX Jahrgang.
- BERNARD QUARITCH, London, England.
 Catalogues, 1880.
- PROF. S. S. HALDEMANN, Chickies, Pa.
 Flageolet, femur of the Peccary.
- DEPARTMENT OF THE INTERIOR, Washington, D. C.
 "Geology of the Henry Mountains."—Powell.
 "Lands of the Arid Region."—Powell.
 Bulletins 1, 2, 3 & 4. Vol. V.—Hayden.
 " 3, 4, 5. Entomological Commission.
 "Circulars of Information."—Bureau of Education.
 "Fresh Water Rhizopods."—Leidy.
 "N. A. Pinnipeds."—Allen.
- M. E. NEWBOLD, Wrightstown, N. J.
 2 large pieces of Petrified Wood.
 1 Indian Mortar.
- B. H. WILLIAMS, Elkland, Pa.
 1 Indian Pestle.
 A series of Pennsylvania Fossils.
- COL. PHILIP FIGYELMESY, U. S. Consul at Demerara.
 1 "Woodskin," or native bark canoe and 4 paddles.
- LORD WALSINGHAM, London, England, (the author.)
 1 Vol. "Pterophoridae of California and Oregon."
 1 Vol. "Lepidoptera Heterocera in the British Museum."
 1 Pamphlet "On some new Species of Tineidae." Also
 20 genera (38 species) Lepidoptera.
- CAV. ENRICO ASCOLI, Florence, Italy, through Col. J. Schuyler Crosby,
 U. S. Consul.
 137 Cabinet Specimens of the Stones and Marbles of Italy, Greece,
 etc.
- CAMPBELL AND STEBBINS, Luray, Page County, Virginia, through Mr.
 Isaac N. Merritt, New York.
 A Series of Specimens, illustrating the Stalactitic and Stalagmitic
 Forms of the Luray Caves, Virginia.
- MINNESOTA HISTORICAL SOCIETY, St. Paul, Minn.
 "Collections." Vol. III, Part 3.
 "Hennepin Bi-Centenary."
- DR. J. R. ROMEYN, Keesville, N. Y.
 1 Slab with ripple marks.
- THOMAS BLAND, Esq., N. Y.
 Wax made from the Leaves of a Palm Tree. Para, Brazil.

MINISTERIO DE FOMENTO DE LA REPUBLICA MEXICANA, Mexico.
 Anales. Tomo III.
 Boletin. Nos. 154 to 165.

MISS ELLEN COLLINS, N. Y.
 2 pieces of Limonite from Lakeville, Conn.

C. F. GISSLER, Brooklyn, N. Y.
 15 specimens in alcohol.

H. R. BISHOP, Esq., New York.
 1 Model of Totem Post. } From Oonalaska Indians.
 1 " Kayak. }
 3 Carved Rattles of the " Medicine Man."
 2 " Dishes, Queen Charlotte's Islands.
 2 Models of Canoes.
 1 Fishing-Dress (Walrusgut).
 1 Cyprus-Bark Cape.
 5 Carved Spoons (mountain-sheep horn).
 12 Stereoscopic Views. } From Sitka.
 9 Photographs. }
 1 Woven Basket.
 6 Engraved Silver Bracelets. } Hydah Indians.
 1 Heavy Gold Bracelet. }

A. MEISSEL.
 4 Siliceous Petrefactions.
 1 Clay Concretion.
 1 Specimen Wulfenite. Nevada.

E. H. HAWLEY, New Haven, Conn.
 1 Specimen Niccoliferous Pyrite, holding gold. Fulton Co., N. Y.

AMERICAN NUMISMATIC AND ARCHÆOLOGICAL SOCIETY, N. Y.
 22d Annual Report.

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.
 Annual Report for 1879-80.

MRS. OLIVE THORNE MILLER, N. Y. (the author.)
 1 Vol. "Queer Pets at Marcy's."
 1 " "Little Folks in Feathers and Fur."

T. T. EATON, D.D., Jarrett's Station, Va.
 2 Large Cotton Plants, with fruit.

PROF. J. D. WHITNEY, New Haven, Conn., (the author.)
 1 Vol "The Auriferous Gravels of the Sierra Nevada."

CAPT. C. P. PATTERSON, Supt. U. S. Coast and Geodetic Survey, Wash-
 ington, D. C.
 55 Specimens of Sea Bottoms, gathered mostly by steamers:
 Hassler and Blake.
 1 Vol. "Deep-Sea Sounding and Dredging."—Steamer Blake.
 Chas. D. Sigsbee.

HUGH AUCHINCLOSS, Esq., New York.
 12 Vols. U. S. Senate Publications on the "Explorations and
 Surveys for a Rail Road Route from the Mississippi River
 to the Pacific Ocean." 1855.

PROF. HENRY G. HANKS, State Mineralogist of California.

"Biennial Report of the State Mineralogist of the State of Nevada, 1873 and 1874."

"Catalogue of the Minerals, Ores, Rocks and Fossils in the Pacific Coast Exhibit of the Paris Exposition of 1878."

EXCHANGES.

Received from the SMITHSONIAN INSTITUTION, Washington, D. C.

103 Species—107 Specimens of Fishes collected by the U. S. Fish Commission along the Coast and Rivers of the Pacific States, in exchange for the first series of the duplicates of the James Hall Collection of Fossils.

Also, in exchange for birds, 46 Species—49 Specimens of Birds. selected from duplicates of the Smithsonian Collection.

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 Milhau, J. J., M.D.
 Miller, D. S.
 Miller, George M.
 Minturn, Miss Cornelia
 Minturn, Mrs. A. M.
 Minturn, William
 Moir, James
 Moller, Peter, Jr.
 Moore, Henderson
 Moore, John P.
 Moore, W. H. H.
 Morgan, Hon. E. D.
 Morgan, George D.
 Morris, Henry Lewis
 Morrison, Edward

Morrison, George A.
 Mortimer, W. Y.
 Moslè, George
 Moulton, Gilman S.
 Mowry, A. L.
 Muller, Adrian H.
 Munoz, J. M.
 Myers, John K.
 Myers, T. Bailey
 Navarro, Juan N.
 Neftel, William B., M.D.
 Neilson, F.
 Nichols, Wm. D.
 Norrie, Adam
 O'Connor, Charles
 O'Connor, Thomas H.
 Odell, Jonathan
 Odell, Mrs. Jonathan
 Olcott, Hon. F. P.
 Olmstead, Dwight H.
 Olmsted, Fred. Law
 Olyphant, R. M.
 Olyphant, Robert
 Oothout, William
 Osgood, S. S.
 Osgood, Mrs. S. S.
 Ostrander, C. V. B.
 Otis, F. N., M.D.
 Ottendorfer, Dr. Oswald
 Paddock, Eugene H.
 Park, Joseph
 Parsons, George W.
 Parsons, John E.
 Patterson, Thomas C.
 Peabody, Arthur J.
 Pell, Alfred
 Pell, John H.
 Penfold, Edmund
 Penfold, William Hall
 Perkins, C. L.
 Perrv, Myron
 Peters, George A., M.D.
 Phelps, Royal
 Phelps, William Walter
 Phoenix, Phillips
 Pierrepont, Edwards
 Pinkus, F. S.
 Platt, John R.
 Platt, Samuel R.
 Porter, Hon. John K.
 Post, Alfred C., M.D.
 Potter, Howard
 Potter, Rev. H. C., D.D.
 Powers, William P.
 Preston, William I.
 Prime, Frederick
 Prince, J. D.
 Purdy, Wm. Macneven
 Purssell, James

Pyne, Percy R.
 Quintard, E. A.
 Ramsay, C. G.
 Reynolds, C. T.
 Renwick, W. R.
 Requa, J. M.
 Riker, D. S.
 Riker, John L.
 Riker, William J.
 Robbins, George A.
 Robertson, R. A.
 Roelker, Bernard
 Rogers, John
 Russell, Charles H.
 Russell, Henry E.
 Rütten, August
 Rutter, Thomas
 Ryan, Columbus
 Rylance, Rev. J. H., D D.
 Sabine, G. A., M. D.
 Sage, Russell
 Sands, Samuel S.
 Satterlee, S. R.
 Sayre, Lewis A., M.D.
 Schack, Frederick
 Schafer, Samuel M.
 Schafer, Simon
 Schley, William
 Schuchardt, Frederick
 Schuyler, George L.
 Schuyler, Philip
 Schwendler, Fred.
 Scott, Geo. S.
 Seligman, David J.
 Shaler, Gen. Alexander
 Shaw, Francis George
 Shea, Hon. George
 Sheafe, J. F.
 Shearman, William Pitt
 Shethar, Samuel
 Sinclair, John
 Sistare, Geo. K.
 Skidmore, Samuel T.
 Skidmore, William L.
 Slawson, J. B.
 Sloan, Hon. Samuel.
 Sloane, William D.
 Slocovich G.
 Smith, Charles S.
 Smith, Edward F.

Smith, H. Erskine
 Smith, L. Bayard
 Smith, Jas. Rufus
 Smith, Roswell
 Smith, Rev. Cornelius B.
 Smith, William Alex.
 Smith, William Henry
 Soutter, Mrs. J. F.
 Speir, Hon. Gilbert M.
 Spies, A. W.
 Spencer, Hon. James C.
 Starin, Hon. John H.
 Stearns, John Noble
 Sterling, A. F.
 Sterry, Geo. E.
 Steward, Campbell
 Stewart, David
 Stewart, Mrs. Lispenard
 Stone, David M.
 Strahan, John H.
 Strong, Charles E.
 Strong, George A.
 Strong, W. L.
 Sturgis, Appleton
 Stuyvesant, A. V. H.
 Sutherland, John
 Sutherland, John L.
 Suydam, D. Lydig
 Swan, Samuel, M.D.
 Swan, William H.
 Tailer, Edward N.
 Taintor, Charles M.
 Talcott, James
 Tappan, Hon. J. Nelson
 Taylor, Aug. C.
 Taylor, W. B.
 Tefft, E. T.
 Terbell, H. S.
 Thompson, S. C.
 Thompson, W. Prall
 Thomson, James
 Thorn, William K.
 Thurber, F. B.
 Thurber, H. K.
 Tiemann, Peter C.
 Tilford, Frank
 Tobias, Samuel I.
 Toucey, J. M.
 Tousey, Sinclair
 Townsend, John P.

Townsend, R. W.
 Townshend, John
 Tracy, Charles
 Tracy, J. Evarts
 Trevor, H. G.
 Trevor, John B.
 Trevor, Mrs. John B.
 Twombly, Hamilton McK
 Tuck, Edward
 Valentinus, Lawson
 Van Nostrand, David
 Van Winkle, Hon. E. S.
 Vermilye, J. D.
 Viele, Gen. Egbert L.
 Von Post, Herman C.
 Waite, Hon. C. B.
 Wales, Hon. Salem H.
 Walker, Evan T.
 Wall, Michael W.
 Wallach, Antony
 Wallack, Lester
 Ward, Mrs. M. H.
 Watson, John H.
 Webb, Gen. Alex. S.
 Webster, Sidney
 Weed, Hon. Thurlow
 Weekes, John A.
 Weeks, Francis H.
 Wenman, Hon. James F.
 Wetherbee, Gardner
 Wheeler, J. W.
 Wheelock, Geo. G., M.D.
 Wheelock, Wm. A.
 Wheelock, Dr. W. E.
 White, Horace
 Whitney, Alfred R.
 Wickham, Hon. W. H.
 Wiechers, W. A.
 Willard, Edward K.
 Williamson, Hon. Dav. B.
 Wilson, John
 Winston, F. S.
 Winthrop, Robert
 Witherbee, S. H.
 Worsham, Mrs. B. D.
 Wotherspoon, Henry H.
 Wright, William Woolsey
 Wyckoff, J. F.
 Young, Mason

N the occasion of the retirement of

MR. ROBERT L. STUART,

from the Presidency of the Museum, the following resolutions were adopted at the Quarterly Meeting of the Board of Trustees, held February 14th, 1881.

Resolved—That the Trustees of the American Museum of Natural History, have received with deep regret the peremptory declination of Mr. Robert L. Stuart to serve the Institution further as its President, and the more so, that such step on his part has been compelled by the state of his health.

They desire to put on record their unanimous appreciation of his earnest and unfailing devotion to its interests, and of the liberality with which he has always promoted its various enterprises, and aided in advancing its growth from its modest beginnings, until under his management it has reached its present satisfactory position as an educational and scientific institution.

We are glad to know that we shall continue to have the benefit of his co-operation and earnest sympathy as a member of the Board of Trustees.