

THE ELEVENTH

ANNUAL REPORT,

OF THE

American Museum of Natural History,

CENTRAL PARK, NEW YORK,

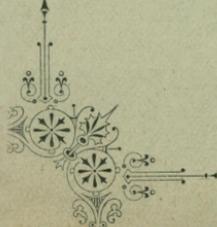
77th Street and 8th Avenue.

—+—
—FEBRUARY 10TH, 1880.—
—+—

NEW YORK :

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

1880.



THE ELEVENTH
ANNUAL REPORT

OF THE

American Museum of Natural History,

CENTRAL PARK, NEW YORK,

(77TH ST. AND 8TH AVE.)

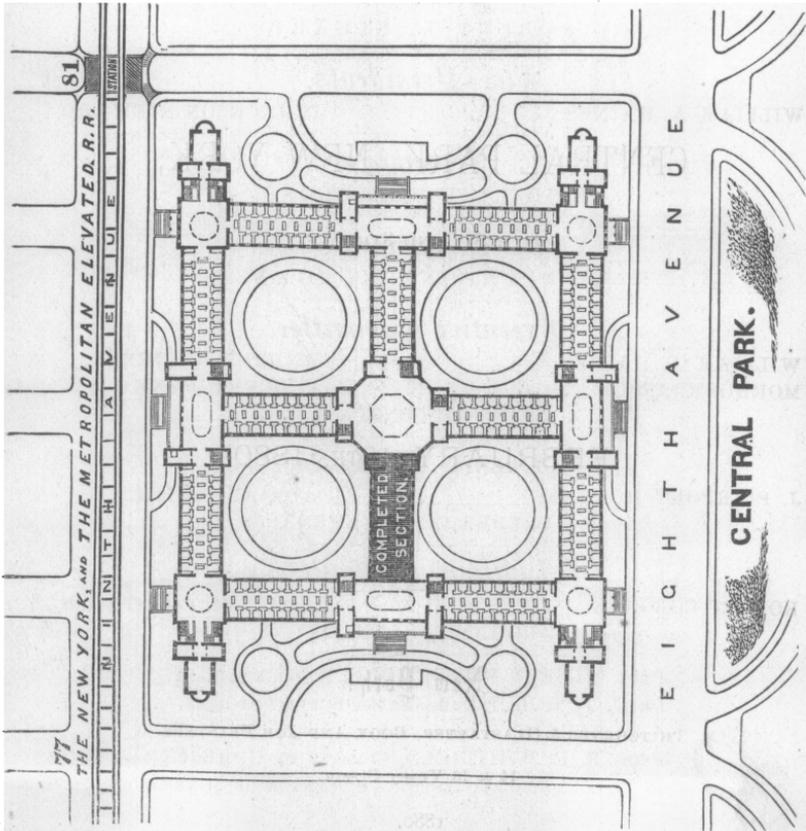
FEBRUARY 10TH, 1880.

New York:

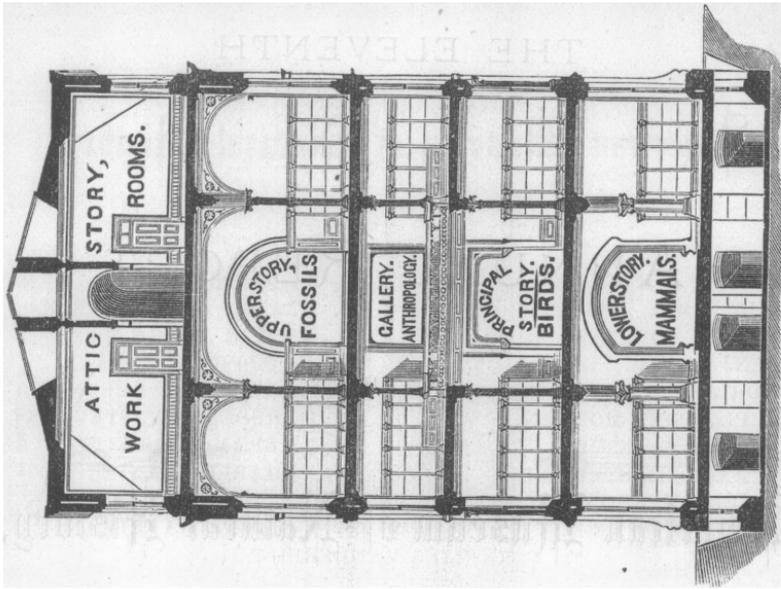
THITCHENER & GLASTAETER, BOOK AND JOB PRINTERS.

14 & 16 Vesey Street.

1880.



GROUND PLAN.



TRANSVERSE SECTION.

American Museum of Natural History.

Trustees.

ROBERT L. STUART.
WILLIAM A. HAINES.
ROBERT COLGATE.
BENJAMIN H. FIELD.
ADRIAN ISELIN.
J. PIERPONT MORGAN.
MORRIS K. JESUP.
D. JACKSON STEWARD.
JOSEPH H. CHOATE.
PERCY R. PYNE.

JOHN B. TREVOR.
JAMES M. CONSTABLE.
WM. E. DODGE, JR.
JOSEPH W. DREXEL.
ANDREW H. GREEN.
FREDERIC W. STEVENS.
ABRAM S. HEWITT.
CHARLES LANIER.
HUGH AUCHINCLOSS.
OLIVER HARRIMAN.

CORNELIUS VANDERBILT.

President.

ROBERT L. STUART.

Vice-Presidents.

WILLIAM A. HAINES.

D. JACKSON STEWARD.

Secretary.

HUGH AUCHINCLOSS.

Treasurer.

J. PIERPONT MORGAN.

Executive Committee.

WILLIAM A. HAINES.
MORRIS K. JESUP.

ANDREW H. GREEN.
PERCY R. PYNE.

JAMES M. CONSTABLE.

Finance Committee.

J. PIERPONT MORGAN.

ADRIAN ISELIN.

FREDERIC W. STEVENS.

Auditing Committee.

ROBERT COLGATE.

JAMES M. CONSTABLE.

CHARLES LANIER.

PROF. ALBERT S. BICKMORE, SUPERINTENDENT.

DR. J. B. HOLDER, ASSISTANT SUPERINTENDENT.

J. J. BARGIN, ASSISTANT SECRETARY.

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

I. P. GRATACAP, ASSISTANT CURATOR OF MINERALOGY.



ARTISTYPE

HARROUN & BIERSTADT, N. Y.

Lower Hall: Mammals, Shells.

Eleventh Annual Report.

1879.

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

It is now our pleasure to state that the institution is *entirely out of debt*. The sum due on the James Hall Collection of fossils and for deficiency in maintenance during the past year has amounted up to this date to \$28,179.37. The friends of the Museum have given \$3,000, and the sum of \$27,250 has been subscribed by the members of our Board of Trustees to cover this indebtedness and leave a small balance in the treasury. From the city, \$10,076.54 have been received towards maintenance, and from the Annual Subscribers and other Members, \$8,206.80, making the total amount paid in to the Treasurer for purchases and maintenance since Jan. 1, 1879, the date of the last report, \$47,033.34.

The opening of the Manhattan Elevated Railway to the depot on the northwest corner of our square at Ninth Avenue and 81st Street, has rendered the Museum accessible by a ride of a few minutes from

any part of the city, and has been followed by a large increase in the number of our visitors.

The Department of Public Parks has a completed system of sewerage which has drained the depression between the hills that originally stood on our Square, so that now we shall hope to have one of the healthiest locations on Manhattan Island. The improvement of the grounds is still in progress, and the Board of Apportionment has set apart \$20,000 for its continuance during the present year.

The rearrangement and scientific labelling of the collections, which began last year, have made steady progress, and produced a marked improvement in the exhibition; also the important additions to the Museum mentioned below have been catalogued and displayed in the cases of the public halls or arranged in drawers in the laboratories of the upper story so as to be immediately accessible to all students carrying on original research.

To the Department of Mammals have been added a fine mounted specimen of the rare Rocky Mountain Goat, presented by Mr. Percy R. Pyne; five skulls and eight carefully prepared specimens illustrating the structure of various parts of the human anatomy, presented by Dr. J. J. Milhau; a lower jaw of the sperm whale and a walrus head, presented by Mr. W. H. Bartlett of New Bedford; and three highly polished shells of sea turtle from Florida, presented by Mr. Robert L. Stuart. A large specimen of the long-nosed monkey of Borneo, has been purchased and lately mounted, and placed on exhibition. The Park Department, from its menagerie, has presented a Striped Hyena, a Harnessed Antelope, and a young Llama.

In two of the desk cases, made vacant by moving specimens on the gallery floor, are exhibited a series of very rare and valuable shells, deposited by Mr. W. A. Haines.

In the department of Ornithology, we have received from the Smithsonian Institution, as a partial exchange for the specimens we forwarded last year, 89 species and 104 specimens of bird skins, which, with a selection made by Mr. D. G. Elliot from the large series formerly presented by him, numbers 657 skins which are ready to be mounted and placed in the cases on the second floor. Mr. Alfred Van Deusen has presented 9 species, 17 specimens, of skins from South America. A remarkably large and finely colored specimen of the Wild Turkey, mounted by Mr. Bell, was presented by the late Mr. Alexander Stuart, and a bird's skull, mounted with the bones separate, but retaining their relative position, presented by Mr. Elliot.

In the Department of Ethnology and Archæology much labor has been performed in carefully marking numbers in paint upon the specimens, so that they can be freely handled by students in this popular branch of natural science without the possibility of the loss of their locality.

Large and valuable additions are being constantly made to our collections upon the gallery floor, and with the important deposits of similar specimens from all parts of our country, now rapidly accumulating in our workrooms, the material will soon be gathered for making an exhaustive study of American Archæology. Mr. Hugh Auchincloss has presented a collection of Indian and Eskimo dresses and implements, made by Prof. Robert Bell, on the shores of Hudson's Bay.

Mr. Percy R. Pyne has presented a collection of Indian stone implements made by the late Hon. Brantz Mayer, which were principally gathered by Prof. Nicollet, at the headwaters of the Mississippi.

Mr. F. W. Stevens has presented one-half, and Mr. Gifford Pinchot one-fourth of a series of similar implements from New York State, and Mr. Peter C. Cornell has presented one-half and Mr. B. G. Arnold one-fourth of another series from the mounds in Ohio.

Prof. S. S. Haldemann, of Chickies, Pa., has presented a rare collection of the dresses, weapons, and implements of the Indian tribes of British Guiana. Mr. Jonathan Thorne has presented a celt or stone axe found in its original handle, probably the only specimen on exhibition from the States bordering on the Atlantic ocean.

Mr. Thomas Cleneay, of Cincinnati, has presented an important collection from the mounds in the Ohio Valley. It consists of grooved axes, celts, pestles, flint knives, and selected arrow heads, a detailed list of which is given in the record of donations.

Mr. James Terry, of Hartford, has availed himself of the facilities the Museum affords for original investigation, and has brought his great archæological collections to our laboratories. When packed for shipping it filled one car and weighed five and a half tons. It is the result of ten years assiduous collecting, supplemented with liberal purchases. The area from which it has been gathered commences on the north at Connecticut and includes various parts of the coast States to Alabama, and the interior States of Ohio, Indiana, and Illinois. The series of stone implements from Tennessee is very extensive. There are 800 pieces of

pottery from Missouri and Arkansas, the larger part of which are ornamented with representations of the human face or the figures of animals. From California there are 60 *ollas* or spherical stone pots, 120 stone mortars, 100 serpentine dishes of elegant finish, and over 40 pipes. The chipped implements of that coast excel in the delicacy of finish the finest ones found in Denmark.

Mr. Andrew E. Douglass has also made a very important deposit of specimens, mostly from the mounds of Florida.

In the Geological department, commencing with the Chemung group, the arrangement of the specimens for exhibition, and the selection of duplicate material has been completed for the palæontological collections, and there are now on exhibition in the upper hall the following series :

	Selected Specimens.	Types and Figured Specimens.
Prof. James Hall's Collections.—American	76,011	5,579
“ “ “ —European	3,878	5
“ F. S. Holmes' Collection	3,930	203
Miscellaneous Collections.—American	2,339	
“ “ —European	2,432	
Total on Exhibition	88,590	5,787
Loaned to Prof. Hall	843	843
Total Palæontological Specimens selected for Exhi- bition in the Museum	89,433	6,630

Other specimens have been loaned to Professor Hall for the continuation of his scientific work, some of which will probably be figured, making the total of types and figured specimens nearly or quite *seven thousand*. The duplicate fossils selected from the Hall

and other collections have been arranged to the completion of 10 sets, as follows :

	Species	Specimens.
1st Collection	1,570	5,198
2d "	1,290	3,908
3d "	1,101	3,397
4th "	1,049	3,180
5th "	951	2,827
6th "	842	2,458
7th "	797	2,221
8th "	707	2,380
9th "	691	2,324
10th "	658	2,178
	<hr/>	<hr/>
Total.....	9,656	30,071

Each species in each collection has a separate written label containing the generic and specific name, the author's name, the locality and geological formation, and a number which corresponds to a catalogue, a copy of which is provided with each collection.

Each series has been carefully packed in wooden boxes that are plainly marked, and the whole is now ready for immediate delivery. Several collections have been identified for individuals, the specimens being retained in payment for the list of identifications returned. In this work we have been aided by Mr. A. Woodward, who has given his labor to the Museum. In lithology, the standard series of rocks deposited by Major T. B. Brooks, from Austria, Norway and Sweden, and from Michigan and Wisconsin, have been placed in drawers in the work-rooms with their microscopical sections. These specimens, together with those of the 40th parallel survey described by Prof. Zirkel, have become of such interest, and are so entirely accessible, that scientific experts have come from

various parts of the country to study them during the past year.

Important additions have been made to the libraries deposited with us for safe keeping, and the volumes and pamphlets already gathered in the elegant study rooms of our fire-proof building for the benefit of original investigators, number as follows:

	Vols.	Pam- phlets.
Jay Library on Conchology, presented by Miss C. L. Wolfe.	997	180
Brevoort Library on Fishes and General Zoology, deposited by the President of the Board.	2,083	1,599
Scientific Works from various donors.	634	341
Library on Mining and Physical Geology, deposited by Mr. Clarence King.	2,430	1,652
Library of the New York Academy of Sciences, deposited by the Society for safe keeping.	4,939	1,847
Prof. Whitfield's Library on Palæontology.	530	461
Prof. Bickmore's Library on Ethnology and Archæology.	987	540
Total.	12,600	6,620

Students from a number of institutions have come to the city for the purpose of consulting some works these libraries contain, which are either unique or not to be found elsewhere in America.

Our contract with the Department of Public Parks provides that on Wednesdays, Thursdays, Fridays, Saturdays and holidays, the Museum shall be open to the public free of charge, but Mondays and Tuesdays are reserved for the study and rearrangement of the collections, and on these days visitors to the city are admitted, and those contributing money or specimens. A member paying \$10 yearly receives a ticket of admission for himself and family on these days, and to the spring and autumn receptions, and complimentary tick-

ets for friends. The privileges of Fellows and Patrons contributing larger sums are stated in the By-Laws.

An illustrated Guide is in course of preparation, but until it is completed, and as an immediate means of rendering the Museum a source of instruction an assistant will be in attendance on Mondays and Tuesdays to receive Members and their friends, and explain the plan of the institution and the specimens on exhibition.

The Trustees intend that the Museum shall be made particularly interesting to the youth of our city, and a plan is under consideration for rendering it a direct benefit to the teachers and pupils of our public schools, and therefore a very important element in our system of public education.

Several rare collections, supplementing those already acquired, are now offered us upon very advantageous terms, and now that the institution has been freed from all liabilities by subscriptions from the Trustees, and a By-Law enacted preventing any purchase being made hereafter, unless the funds to pay for the same are first provided, we confidently appeal to our public-spirited citizens to join us in securing such important additions, and by increasing the facilities for study at the Museum, render our city more and more attractive to the scientific men of our country, and our institution increasingly instructive to our own citizens.

February 10th, 1880.

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

1879. Salaries.....	\$8,840 00		\$93 77
Labor.....	3,155 28		100 00
Collections purchased.....	2,443 00		1,250 00
Coal.....	1,087 49		250 00
Insurance on Collections in Arsenal Building..	150 00		250 00
Printing and Stationery.....	609 40		200 00
Postage, Car-fare, Commissions and Traveling Expenses.....	564 71		290 00
Freight, Expressage and Custom House Expenses.....	152 13		1,000 00
Carpenter Work, Fitting and Decorating.....	254 58		100 00
Supplies for Building.....	399 70		16 80
Sundries.....	502 60		13,076 54
Balance carried forward.....	218 22		1,750 00
	\$18,377 11		\$18,377 11

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

[E. & O. E.] NEW YORK, January 5th, 1880.

J. PIERPONT MORGAN, Treasurer.

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

1880. To repayment of money borrowed December
 Feb. 10. 31st, 1879..... \$1,750 00
 To Paid Prof. Hall balance due 26,429 37
 Balance carried forward 788 85

\$28,968 22

1880. By Balance January 5th, 1880 \$218 22
 Feb. 10. By Cash from Robert L. Stuart 3,000 00
 " " J. Pierpont Morgan 2,000 00
 " " Robert Colgate 2,000 00
 " " Hugh Auchincloss 1,500 00
 " " F. W. Stevens 2,000 00
 " " Abram S. Hewitt 2,000 00
 " " Joseph H. Choate 500 00
 " " Benjamin H. Field 500 00
 " " Adrian Iselin 1,500 00
 " " Percy B. Pyne 1,250 00
 " " W. E. Dodge, Jr. 750 00
 " " Charles Lanier 1,000 00
 " " John B. Trevor 2,000 00
 " " Oliver Harriman 500 00
 " " Joseph W. Drexel 1,500 00
 " " James M. Constable 2,000 00
 " " M. K. Jesup 1,500 00
 " " C. Vanderbilt 1,000 00
 " " Andrew H. Green 250 00
 " " Edward Clark 1,000 00
 " " Jonathan Thorne 500 00
 " " D. O. Mills 500 00

\$28,968 22

NEW YORK, FEBRUARY 10TH, 1880.

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.

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.



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.*

At a meeting of the Trustees, held at the residence of Theodore Roosevelt, Esq., April 8th, 1869, the above charter was unanimously accepted by a majority of the Trustees.



HAROUN & BIERSTADT, N. Y.

Main Hall, Birds.

ARTOTYPE

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 five, who 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.

1879.

By bequest of the late DR. A. HABEL, through his executor, HUGH D. BROWN.
A collection of Geological Specimens, Pottery, several Mummies,
etc., all from San Salvador and Peru.

DR. C. C. ABBOTT, Trenton, N. J.

"Second Report on the Paleolithic Implements from the Glacial
Drift."

By the late ALEXANDER STUART, N. Y.

A fine specimen of the Wild Turkey.

Through the SMITHSONIAN INSTITUTION, Washington, D. C.

Journal 1876, 1877 and 1878 Society of Natural History of Zurich.

"Verhandlungen der K. K. Geologischen Reichsanstalt 1878;
April and May, 1879.

"Wetterauische Gesellschaft für die Gesammte Natur-Kunde zu
Hanau."—Bericht, December, 1873, bis Jan., 1879.

"Forhandlinger i Videnskabs-Selskabet I., Christiania, 1876, 1877
and 1878."

"Fortegnelse over Separat-Aftryk af Christinia," 1878.

"Bidrag til Kundskaben om Norges Arktiske Fauna"—I.

Bloddyr of Dr. G. O. Sars, Christiania, 1878.

"Om Poncelet's Betydning for Geometrien," Christiania, 1878.

"Om Stratifikationens Spor af Dr. Theodore Kjerulf," Christiania,
1877.

"Det Kongelige Norske Videnskabers Selskabs Skrifter i det
19 de Aarhundrede."—Throndbjem, 1878.

"Jahres-Bericht der Naturforscher der Gesellschaft Graubundens."
1876 and 1877.

"Aanteekeningen van Het Provinciaal Utrechtsch Genootschap
van Kunsten en Wetenschappen," 1877 and 1878.

"Verslag van Het Provinciaal Utrechtsch Genootschap van
Kunsten en," Wetenschappen," 1877 and 1878.

"Verhandeling over de Verdamping Van Water," etc.

Dr. J. E. Enklaar, Utrecht, 1878.

"Prize Essay on Evaporation," by Samuel H. Miller, Utrecht,
1878.

Anales del Museo Nacional De Mexico—Tomo I—Entrega 6a.

JOHN WOLFE, N. Y.

1 Stone Axe.

Lot of Fossils and Shells.

CINCINNATI SOCIETY OF NATURAL HISTORY, Cincinnati, Ohio.

Journal—Vol I, No. 4, January, 1879.

"—Vol. II, No. 1, April, 1879.

"—Vol. II, No. 2, July, 1879.

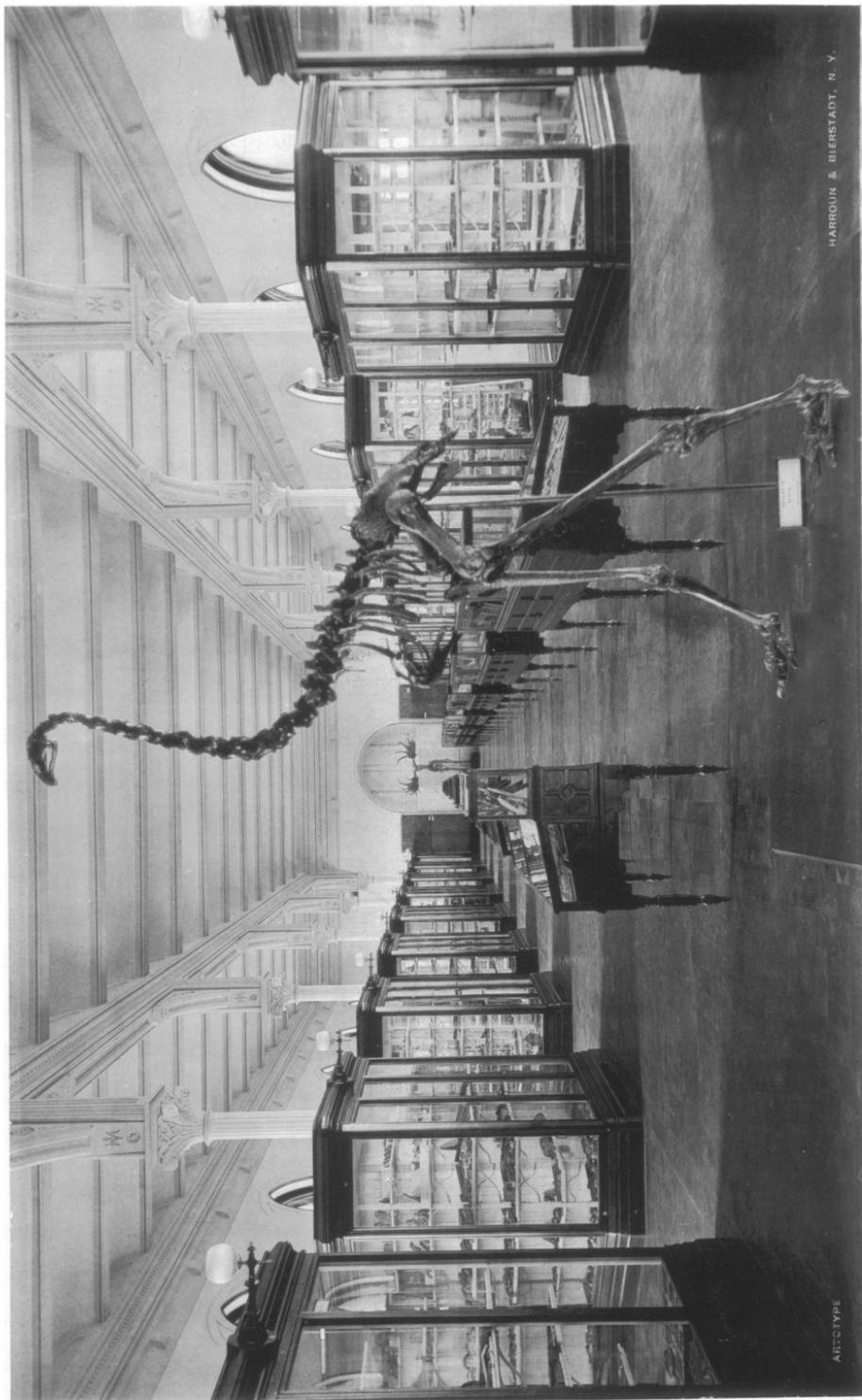
- PROF. J. W. POWELL, Washington, D. C.
 5 Relief Maps, geologically colored, of the Colorado Cañon and Henry Mountains.
 1 Relief Map of the High Plateau Region of Utah.
- SMITHSONIAN INSTITUTION, Washington, D. C.
 Annual Report, 1877.
 Vols. 1, 2, 3, 13, 14 and 15 of the "Miscellaneous Collections."
- JONATHAN THORNE, N. Y.
 Stone Axe in its original wooden handle, the only specimen known to have been found in the Eastern States. Found in the bed of a brook at Thornedale, Dutchess Co., N. Y., in 1850.
- MRS. L. W. JOHNSON, Hong Kong.
 Models of Chinese Woman's Feet.
 Chinese Knife and Chop Sticks.
- L'ACADEMIE ROYALE DE COPENHAGUE.
 Bulletin, 1878—September to December.
 " 1879—to May.
- DR. OCTAVIUS A. WHITE, N. Y.
 Several Fossil Vertebrae, fragments of Bone and Shark Teeth from the phosphate beds of South Carolina.
- ROBERT L. STUART, Esq., N. Y.
 Block of Shell Limestone, from Anastasia Island, Florida.
 3 Turtle Shells, polished—Florida.
 Fine Specimen of "Floating Coral."—Florida.
- E. A. WEMPLE, N. Y.
 A section of the Trunk of a Fossil Tree (Sigillaria) from the Coal Measures of Scotland.
- HON. A. J. LESPINASSE, U. S. Consul at Merida, Mexico.
 7 Skins of Birds, from Mexico.
 1 Shark Skin, from Mexico.
- W. H. BARTLETT, New Bedford, Mass.
 Lower Jaw of a Sperm Whale.
 Head of the Walrus.
- GEORGE N. LAWRENCE, Esq., N. Y.
 Several pamphlets, "completing the West India Catalogues."
- LEONARD B. PASSMAN, Elizabeth, N. J.
 Specimen of "Corydalis Cornutus."
- DR. J. T. B. HILLHOUSE.
 Spiders' Nests from San Joaquin Valley, California.
- D. JACKSON STEWARD, Esq., N. Y.
 4 boxes Schoharie-Grit Fossils.
 Several large specimens from Goshen, N. Y.
 2 fine Fossil Trilobites from same locality.
- STATE OF INDIANA, through JOHN COLLETT, Esq., Chief of Bureau of Statistics and Geology, Indianapolis.
 8th, 9th and 10th Annual Reports of the Geological Survey of Indiana.
- ROYAL MUSEUM OF NATURAL HISTORY OF BELGIUM, Brussels.
 "Description des Ossements Fossiles des Environs D'Anvers."
 Vols I and II with plates and plates of Vol IV.
- PROF. A. S. BICKMORE, N. Y.
 Various Reports and Publications of Scientific Societies.
 Stone Arrow Heads and several lots of Clays and Fossils illustrative of a geological section at Gay Head, Mass.

- D. D. WHITLOCK, Bedford, Westchester Co., N. Y.
Block of Rose Quartz.
- JOHN REINER, Wurtsboro, Sullivan Co., N. Y.
Several Stone Arrow Heads, Axes and Ornaments.
- HON. CHAS. WOLCOTT BROOKS, San Francisco, Cal.
"Japanese Wrecks, etc., Ethnologically considered."
- E. J. FISHER, Sergeant Co. H, 4th U. S. Cavalry.
Scalp of Cheyenne Indian.
3 Arrow Heads.
- PROF. O. C. MARSH, New Haven, Conn.
Cast of the left Femur of "Atlantosaurus immanus," a Fossil
Reptile from Colorado.
- HERBERT H. SMITH.
Calabash Cup and Bird-shaped Bowl from the lower Amazon.
- INDIAN MUSEUM, Calcutta.
Annual Report, 1878.
- DEPARTMENT OF THE INTERIOR, Washington.
Report of the Commissioner of Education, 1877.
" " " U. S. Geological Survey, Hayden, 1876.
- MUSÉUM D'HISTOIRE NATURELLE, Paris.
"Nouvelle Archives," Deuxième Serie, 1878.
- ALFRED VAN DEUSEN, Hudson, N. Y.
17 Birds (9 species) from South America.
- MRS. JOHN MILHAU, N. Y.
32 Volumes Buffon's Natural History.—Paris, 1827.
- DR. JOHN J. MILHAU, U. S. A., N. Y.
2 Human Skulls.
1 " " Skull—Oregon Flat Head.
1 " " —Peruvian.
1 " " —Separated Bones.
1 " " —Shows the Medullary Membranes, Ear Structure,
etc.
1 " " —Shows the Arterial Circulation of Cranium.
Specimen of the Human Spine and Aorta.
" " " Hand.—Ligamentary.
" " " Foot.— "
" " " Knee Joint.
" " " Elbow Joint.
" " " Clavicle, etc.
1 piece Silver Ore from the Ophir Mine, Nevada.
Horns of the Elk.
- H. WELD, N. Y.
1 Hornet's Nest.
- ROYAL SOCIETY OF TASMANIA.
Report for 1877.
- PROF. S. S. HALDEMANN, Chickies, Lancaster Co., Pa.
A collection of Indian Implements, Ornaments and Utensils.
- ROBERT LOGAN, Esq., N. Y.
Block of Marble from Bay of Fundy.
- STATE OF ALABAMA, through EUGENE A. SMITH, State Geologist.
Report of Progress of the Geological Survey of Alabama for 1877
and 1878.
- UNIVERSITY OF TOKIO, Japan.
"Memoir on the Shell Mounds of Omori," by Edward S. Morse.

- THOMAS CLENEAY, Cincinnati, O.
443 specimens of Stone Implements found in the Ohio River Valley.
- E. DOREMUS, Esq., Rondout, N. Y.
10 specimens of Fossil Coral from the Coralline Limestone near Rondout.
- C. T. HATHAWAY, N. Y.
3 Fossil Shells from the Miocene Formation at Yorktown, Va.
- PROF. W. B. DWIGHT, Vassar College.
6 Fossils (Corals and Shells) from the Trenton and Calciferous Rocks near Newburg, Pleasant Valley, and Rochdale, N. Y.
- MRS. M. C. VERMEULE, Staten Island.
Fossil Leaf from the Miocene of Europe.
- SIDNEY DILLON, Esq., N. Y.
A Fossil Turtle from the Miocene of Colorado, and some Concretions from the same State.

E X C H A N G E S .

- PROF. A. G. WETHERBY, Cincinnati, O.
60 specimens of lower Carboniferous Fossils in exchange for names.
- BERLIN H. WRIGHT, Penn Yan, N. Y.
136 species of Fossils from the Hamilton Group near Penn Yan in exchange for names.
- SMITHSONIAN INSTITUTION, Washington, D. C.
104 specimens (89 species) of Birds as part of an exchange of specimens from the Museum collection.
- PROFESSORS MCBRIDE & CALVIN of the Iowa University, Iowa City, Iowa.
38 species of Fossils in exchange for specimens from the Hall collection.
- J. M. CLARK, Canandaigua, N. Y.
51 specimens of Hamilton Group Fossils in exchange for names.



HARROUN & BIERSTADT, N. Y.

ART-COPY

Upper Hall, Fossils.

PATRONS.

By the Payment of Twenty-five Hundred Dollars.

ROBERT L. STUART.....	\$22,500	WILLIAM E. DODGE, JR....	\$4,250
Miss C. L. WOLFE.....	10,500	THEODORE ROOSEVELT*..	3,800
ROBERT COLGATE.....	7,550	J. PIERPONT MORGAN....	3,750
ADRIAN ISELIN.....	6,250	ABRAM S. HEWITT.....	3,750
JOHN B. TREVOR.....	6,250	CHARLES LANIER.....	3,150
FREDERIC W. STEVENS..	6,200	EDWARD CLARK.....	3,000
PERCY R. PYNE.....	5,790	D. JACKSON STEWARD....	2,750
JAMES M. CONSTABLE....	5,650	A. G. PHELPS DODGE....	2,500
MORRIS K. JESUP.....	5,250	S. WHITNEY PHENIX....	2,500
JOHN D. WOLFE*.....	5,000	JAMES BROWN*.....	2,500
HUGH AUCHINCLOSS....	4,750	A. T. STEWART*.....	2,500
JOSEPH W. DREXEL.....	4,550		

FELLOWS IN PERPETUITY.

By the Payment of One Thousand Dollars.

BENJAMIN H. FIELD.....	\$2,250	I. N. PHELPS	\$1,000
CORNELIUS VANDERBILT.	2,000	JAMES STOKES.....	1,000
ROBERT BONNER.....	2,000	D. WILLIS JAMES.....	1,000
ALEXANDER STUART*....	2,000	EDWARD MATTHEWS....	1,000
JAMES B. COLGATE.....	2,000	WILLIAM T. GARNER*....	1,000
WILLIAM A. HAINES....	1,750	JAMES LENOX*.....	1,000
WILLIAM T. BLODGETT*..	1,700	A. H. BARNEY	1,000
BENJAMIN AYMAR*.....	1,500	COLEMAN T. ROBINSON*..	1,000
RICHARD ARNOLD.....	1,500	BENJAMIN B. SHERMAN ..	1,000
OLIVER HARRIMAN.....	1,500	DAVID J. ELY*.....	1,000
JOSEPH H. CHOATE.....	1,500	JONAS G. CLARK.....	1,000
JONATHAN THORNE.....	1,500	JOHN ANDERSON	1,000
JOHN A. C. GRAY.....	1,250	JOHN JACOB ASTOR.....	1,000
HEBER R. BISHOP.....	1,250	CATHERINE L. SPENCER..	1,000
WILLIAM E. DODGE.....	1,000	JAMES GORDON BENNETT.	1,000
PETER COOPER.....	1,000	CYRUS W. FIELD.....	1,000
WILLIAM H. ASPINWALL*.	1,000	ALEX. H. BROWN, M. P. .	1,000
B. H. HUTTON.....	1,000	SAMUEL WILLETS.....	1,000
JOHN TAYLOR JOHNSON..	1,000	J. A. BOSTWICK	1,000
D. N. BARNEY*.....	1,000		

FELLOWS FOR LIFE.

By the Payment of Five Hundred Dollars.

ROBERT GORDON.....	\$600	A. A. LOW	\$500
HOWARD POTTER.....	550	RICHARD MORTIMER, JR..	500
CHARLES W. GRISWOLD ..	500	THOS. A. VYSE, JR.....	500
SAMUEL F. B. MORSE* ..	500	GEORGE G. GRAY*.....	500
RUTHERFD STUYVESANT..	500	GOUVERNEUR KEMBLE*..	500
MEREDITH HOWLAND.....	500	SAMUEL HAWK.....	500
MARSHALL O. ROBERTS ..	500	JOHN SNEDEN.....	500
JOHN ALSTYNE*.....	500	GEORGE BLISS.....	500
O. B. POTTER.....	500	R. A. WITTHAUS, M. D. .	500
LEVI P. MORTON.....	500	THOMAS BARRON*.....	500
HANSON K. CORNING*....	500	GEORGE W. CASS.....	500
STEWART BROWN*.....	500	H. M. SCHIEFFELIN.....	500
ABRAM DUBOIS.....	500	FREDERICK A. LIBBEY ..	500
TIFFANY & CO.....	500	ROBT LENOX KENNEDY ..	500
LUCIUS TUCKERMAN.....	500	F. R. HALSEY.....	500
ALFRED B. DARLING.....	500	D. O. MILLS.....	500

ASSOCIATE FELLOWS,

By the Payment of Two Hundred and Fifty Dollars.

WILLIAM M. HALSTED.....	\$350	JAMES W. GERARD*	\$250
JOHN P. HAINES	300	JAMES M. BROWN	250
W. A. HAINES, JR.....	250	S. C. WILLIAMS	250
RICHARD T. HAINES.....	250	JAMES W. PINCHOT.....	250
HENRY PARISH	250	ALFRED M. HOYT.....	250
HENRY I. BARBEY	250	HENRY F. SPAULDING.....	250
THEODORE W. RILEY.....	250	STEPHEN R. LESHER	250
ROBERT B. MINTURN	250	F. BUTTERFIELD	250
C. N. POTTER	250	EDWARD LUCKEMEYER.....	250
WM. L. COGSWELL*.....	250	EFFINGHAM TOWNSEND ..	250
JOHN K. MYERS*	250	ANDREW H. GREEN	250
HENRY CHAUNCEY	250		

MEMBERS,

By the Payment of One Hundred Dollars.

WILSON G. HUNT	\$200	J. MARION SIMS, M. D.....	\$100
PETER C. CORNELL	200	HENRY MILFORD SMITH ..	100
CONSTANCE B. ANDREWS ..	100	H. A. SMYTHE	100
FORDYCE BARKER, M. D....	100	ALEX. H. STEVENS	100
GEO. E. BELCHER, M. D. ...	100	HENRY M. TABER.....	100
ADDISON BROWN	100	FRED. F. THOMPSON	100
JOHN B. CORNELL	100	EDWARD WALKER*.....	100
A. DALRYMPLE	100	SAMUEL WETMORE.....	100
WM. BUTLER DUNCAN.....	100	JAMES R. WOOD, M. D.....	100
LOUIS ELSBERG, M. D.....	100	WM. M. KINGSLAND	100
JAMES FRASER	100	WM. DENNISTOUN*.....	100
WILLIAM H. GEBHARD	100	JAMES LOW	100
JOHN F. GRAY, M. D.....	100	TOWNSEND HARRIS*	100
JOHN A. HADDEN	100	ROWLAND G. MITCHELL, JR.	100
BENJAMIN HART.....	100	ROBERT G. REMSEN	100
C. P. HUNTINGTON	100	PROF. E. A. FOOTE	100
CHAS. H. KALBFLEISCH	100	JAMES KNIGHT, M. D.....	100
JOHN S. KENYON.....	100	C. V. S. ROOSEVELT	100
CHARLES A. LAMONT*.....	100	E. OELBERMANN	100
CHARLES G. LANDON	100	R. G. DUN	100
JOSIAH LANE*	100	A. JACOBI, M. D	100
WILLIAM C. MARTIN	100	JOHN PONDIR	100
JOHN T. METCALFE, M. D....	100	Miss E. S. HAINES	100
WILLIAM I. PEAKE	100	Mrs. W. A. HAINES	100
ALFRED PELL	100	ALEX. HADDEN, M. D.....	100
ISAAC H. REED	100	JAS. MUHLENBERG BAILEY	100
S. N. SALOMON.....	100	GIFFORD PINCHOT	100
SAMUEL B. SCHIEFFELIN... 100		B. G. ARNOLD.....	100
JOHN H. SHERWOOD	100		

ANNUAL MEMBERS,

By the Payment of Ten Dollars, Yearly.

- | | | |
|-----------------------|------------------------|--------------------------|
| Abeel, John H. | Benedict, Hon. E. C. | Clark, George C. |
| Adams, Rev. William | Bergen, Z. | Clarkson, Frederick |
| Agnew, Alex. McL. | Bernheimer, Adolph | Clift, Smith |
| Agnew, C. R., M.D. | Bien, Julius | Colgate, Abner W. |
| Agnew, Hon. John T. | Bissinger, Philip | Colgate, Mrs. Bowles |
| Albinola, G. | Blackford, Eugene G. | Colgate, Mrs. Charles C. |
| Alexander, Henry M. | Blagden, George | Colgate, Edward |
| Amend, Bernard G. | Blakeman, Birdsey | Colgate, Miss Georgiana |
| Amy, H. | Bliss, C. N. | Colgate, Robert |
| Anderson, H. H. | Bliss, George | Colgate, Robert, Jr. |
| Anthony, Henry T. | Boardman, Andrew | Colgate, R. R. |
| Appleby, Charles E. | Bonn, William B. | Colgate, Samuel |
| Appleton, D. S. | Borden, William | Colgate, Mrs. Samuel |
| Appleton, John A. | Bowdoin, G. S. | Colgate, Samuel J. |
| Appleton, Wm. H. | Bowron, Job C. | Collins, Benjamin |
| Appleton, W. W. | Boyd, Edward A. | Compton, A. T. |
| Arnold, John H. V. | Brady, Hon. John R. | Constable, Miss Amy H. |
| Arnold, Richard | Braker, Conrad, Jr. | Constable, Frederick A. |
| Astor, John Jacob | Bridge, Wm. F. | Constable, James M. |
| Astor, W. W. | Brinsmade, J. B. | Constable, Mrs. James M. |
| Auchincloss, Hugh | Brown, Miss E. W. | Constant, Samuel S. |
| Auchmuty, R. T. | Brown, Mrs. James M. | Constantine, A. J. |
| Avery, S. P. | Brown, J. Crosby | Constantine, J. |
| Bailey, Latimer | Bruce, Adam T. | Corning, E. L. |
| Bailey, N. P. | Bruce, Col. S. D. | Cossitt, F. H. |
| Baker, Francis | Bryson, P. M. | Cotheal, Alex. I. |
| Baldwin, C. C. | Buckham, George | Cottenet, F. |
| Baldwin, M. G. | Buell, James | Cowdrey, N. A. |
| Balen, Peter | Burkhalter, S. | Crerar, John |
| Banyer, Goldsborough | Burrill, John E. | Crocker, George Aug. |
| Barker, Fordyce, M.D. | Butler, Charles | Crocker, William Baylis |
| Barlow, S. L. M. | Butler, Wm. Allen | Crolius, Clarkson |
| Barney, Hiram | Byers, John | Cruger, S. V. R. |
| Barnum, Hon. P. T. | Byrd, George H. | Currie, John H. |
| Barron, John C., M.D. | Cammann, H. H. | Curtis, Jeremiah |
| Bates, L. M. | Camp, W. A. | Curtis, Hon. William E. |
| Bates, Martin | Carter, Robert | Daly, Hon. Charles P. |
| Beach, Hon. Miles | Cashman, M. H. | Dash, Bowie |
| Beadleston, W. H. | Chalmers, T. C., M.D. | Dash, John B. |
| Beale, Geo. W. | Chandler, Nathan | Davies, Henry E. |
| Beck, Fanning C. T. | Charlier, Elié | Davies, William G. |
| Beebe, Chas. E. | Cheever, John H. | Davis, Hon. Noah |
| Belden, William | Child, Lewis P. | Davis, Samuel D. |
| Belknap, A. B. | Chittenden, Hon. S. B. | Davison, C. A. |
| Bell, George | Choate, Joseph H. | Day, Henry |
| Bell, Hon. Isaac | Choate, Mrs. Joseph H. | de Forest, Mrs. Geo. B. |
| Benedict, A. C. | Cisco, John Jay | de Rham, Charles |

- Decker, N. H.
 Delafield, Maturin L.
 Delamater, Cornelius H.
 Delmonico, L.
 Devlin, Jeremiah
 Dickey, Charles D.
 Dittenhoefer, Hon. A. J.
 Dix, Rev. Morgan, D.D.
 Dixon, C. P.
 Docharty, Prof. G. B.
 Dodge, Cleve H.
 Dodge, Miss Grace H.
 Dodge, Miss Mary M.
 Dodge, W. Earl
 Dodge, Mrs. Wm. E., Jr.
 Douglas, Andrew E.
 Draper, Dr. W. H.
 Du Bois, Katharine
 Du Bois, William A.
 Duncan, John P.
 Dunlap, Robert
 Earle, John H.
 Eaton, Hon. Dorman B.
 Edson, Tracy R.
 Ehret, George
 Eidlitz, Leopold
 Eidlitz, Marc
 Elfelt, Augustus B.
 Elliott, John
 Ellis, John W.
 Ely, Richard S.
 Eno, Amos R.
 Fabbri, E. G.
 Fahnestock, H. C.
 Falls, W. A.
 Fargo, James C.
 Ferguson, Edward
 Field, Cyrus W.
 Field, Dudley
 Fiske, Josiah M.
 Fitch, John
 Fleet, Oliver S.
 Fletcher, Andrew
 Fogg, William H.
 Foote, Emerson
 Foster, J. P. G.
 Foulke, Thomas
 Frame, Charles P.
 Fraser, George S.
 Frey, Frederick T.
 Frohwein, Theobald
 Fry, Charles M.
 Garrison, Wm. R.
 Gebhard, Edward
 Georger, Louis F.
 Gibbs, Theodore K.
 Gifford, Sanford R.
 Gilbert, Clinton
 Gillespie, G. D. H.
 Glover, Charles H.
 Goadby, James H.
 Godwin, Parke
 Goldenberg, Levi
 Goodridge, F.
 Goodwin, James J.
 Gossler, G. H.
 Grace, W. R.
 Graham, Malcolm
 Greenwood, Isaac J.
 Griswold, B. W.
 Griswold, Sam'l L., M.D.
 Grosvenor, Mrs. M. A.
 Guernsey, Egbert, M.D.
 Gunning, Thos. B., M.D.
 Gunther, F. Frederick
 Gunther, William Henry
 Gurnee, W. S.
 Haines, John P.
 Haines, Mrs. John P.
 Hall, John H.
 Hall, Thomas D.
 Hall, Valentine G.
 Hallgarten, A.
 Hallgarten, Julius
 Hammond, E. A.
 Hammond, W. A., M.D.
 Hanemann, John T.
 Harberger, John S.
 Harrison, Joseph G.
 Harrison, Miss M. J.
 Hartley, Marcellus
 Hasell, Bentley D.
 Havemeyer, J.
 Haven, G. G.
 Hawley, Henry E.
 Hay, Allan
 Heller, Jonas
 Hendricks, Harmon
 Hendricks, Joshua
 Hendricks, M. M.
 Hernz, J. R. Martinez
 Herriman, John
 High, Miss A. C.
 Hinman, W. K.
 Hinton, J. H., M.D.
 Hoag, Daniel T.
 Hobson, Joseph
 Hoe, Peter S.
 Hoe, Richard M.
 Hoffman, J. O.
 Hoffman, S. V.
 Hoffman, William B.
 Hoguet, H. L.
 Holbrook, E. F.
 Holden, E. R.
 Holland, Alexander
 Holt, Charles L.
 Holt, R. S.
 Hone, Robert S.
 Hoppin, W. W., Jr.
 Houghton, Rev. G. H.
 Howe, Joseph W., M.D.
 Howland, S. S.
 Hubbard, Frederick
 Hubbard, Gen. T. H.
 Hunt, Samuel I.
 Hurd, S. H.
 Hyde, Samuel T.
 Iddings, W. P.
 Irvin, Richard
 Iselin, Adrian, Jr.
 Iselin, Mrs. Adrian
 Iselin, John H.
 Iselin, Oliver
 Iselin, Wm. E.
 Isham, W. B.
 Ivison, Henry
 Jackson, W. H., M.D.
 Jacobson, Frederick
 Jaffray, E. S.
 Jaffrey, Robert
 Jenkins, William L.
 Johnson, A. J.
 Johnson, John E.
 Jones, George
 Jordan, C. N.
 Kelly, Eugene
 Kemp, Edward
 Kemp, John H.
 Kennedy, John S.
 Kerner, Charles H.
 Keyes, William E.
 King, Albert G.
 King, Edward J.
 Kingsland, A. C.
 Knapp, H., M.D.
 Knox, Henry E.
 Kuhne, Frederick
 Lanier, J. F. D.
 Larremore, Hon. R. L.
 Lawrence, George N.
 Lawrence, Newbold
 Lawrence, Samuel
 Lawton, Walter E.
 Leale, Charles A., M.D.
 Lee, William H.
 Lehmaier, M. H.
 Le Roy, Daniel
 Leshar, Stephen R.
 Leverich, Henry S.
 Lewis, Charlton T.
 Liautard, A. F., M.D.
 Livingston, Edward
 Livingston, John A.
 Livingston, Robert E.
 Livingston, Robert J.
 Livingston, William S.

- Livingston, Wm. S., Jr.
 Lowrey, Joseph S.
 Ludington, C. H.
 Lusk, William T., M. D.
 Macy, Charles A., Jr.
 Macy, William H.
 Maddux, Lewis
 Major, W. K.
 Mali, Charles
 Man, A. P.
 Manice, William D. F.
 Martin, Bradley
 Martin, W. A.
 Martin, William C.
 Mason, Lowell
 Maxwell, Alexander
 McAlpin, D. H.
 McCready, N. L.
 McGinnis, John, Jr.
 McVickar, J. A., M. D.
 Mead, Ralph, Jr.
 Meeker, W. B.
 Merritt, Douglas
 Merritt, Mrs. Julia
 Metcalfe, John/T., M. D.
 Milhau, J. J., M. D.
 Miller, George M.
 Minturn, Mrs. A. M.
 Minturn, William
 Mitchell, James L.
 Moir, James
 Moore, Henderson
 Moore, John P.
 Moore, W. H. H.
 Morgan, D. P.
 Morgan, George D.
 Morgan, William F.
 Morris, Henry Lewis
 Morrison, Edward
 Morrison, George A.
 Mortimer, W. Y.
 Moslè, George
 Mott, Alex. B., M. D.
 Moulton, Gilman S.
 Mower, Mandeville
 Mowry, A. L.
 Muller, Adrian H.
 Munoz, J. M.
 Myers, John K.
 Myers, T. Bailey
 Navarro, Juan N.
 Neffel, William B., M. D.
 Neilson, F.
 Norrie, Adam
 O'Connor, Charles
 O'Connor, Thomas H.
 Odell, Jonathan
 Odell, Mrs. Jonathan
 Olcott, Hon. F. P.
 Olmstead, Dwight F.
 Olmsted, Fred. Law
 Olyphant, R. M.
 Olyphant, Robert
 Ostrander, C. V. B.
 Otis, F. N., M. D.
 Ottendorfer, Dr. Oswald
 Paddock, Eugene H.
 Parsons, Arthur W.
 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.
 Perley, Joseph L.
 Perry, Myron
 Peters, George A., M. D.
 Phelps, Royal
 Phelps, William Walter
 Phoenix, Phillips
 Pinkney, J. H.
 Pinkus, F. S.
 Platt, John R.
 Platt, Samuel R.
 Popham, William H.
 Porter, Hon. John K.
 Post, Alfred C., M. D.
 Potter, Miss Grace H.
 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.
 Ramsay, C. G.
 Reynolds, C. T.
 Reilly, Hon. Bernard
 Reisig, Richard, M. D.
 Renwick, W. R.
 Requa, J. M.
 Riker, D. S.
 Riker, John L.
 Riker, William J.
 Robbins, George A.
 Robertson, R. A.
 Roelker, Bernard
 Rogers, Charles H.
 Rogers, John
 Roosevelt, Theodore
 Russell, Charles H.
 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
 Schuyler, George L.
 Schuyler, Philip
 Schwendler, Fred.
 Shaler, Gen. Alexander
 Shaw, Francis George
 Shea, Hon. George
 Sheafe, J. F.
 Shearman, William Pitt
 Shethar, Samuel
 Sinclair, John
 Skidmore, Samuel T.
 Skidmore, William L.
 Slawson, J. B.
 Sloan, Samuel
 Sloane, William D.
 Slocovich, G.
 Smith, Charles S.
 Smith, Edward F.
 Smith, H. Erskine
 Smith, L. Bayard
 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.
 Sterling, A. F.
 Stevens, A. O., M. D.
 Steward, Campbell
 Stewart, David
 Stewart, Mrs. Lispenard
 Stone, David M.
 Strange, A. B.
 Strong, Charles E.
 Strong, W. L.
 Stuart, Robert L.
 Stuart, Mrs. R. L.
 Sturgis, Appleton
 Sturgis, Miss M. B.
 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.
 Terbell, H. S.
 Thompson, S. C.
 Thompson, W. Prall
 Thomson, James
 Thorn, William K.
 Thurber, F. B.
 Thurber, H. K.
 Tiemann, Peter C.
 Tobias, Samuel I.
 Toucey, J. M.
 Tousey, Sinclair
 Townsend, John P.
 Townsend, R. W.
 Tracy, Charles
 Tracy, J. Evarts
 Trevor, H. G.
 Trevor, John B.

Trevor, Mrs. John B.
 Troup, Miss Louisa
 Tuck, Edward
 Valentine, Lawson
 Vanderbilt, Cornelius
 Van Nostrand, David
 Van Winkle, Hon. E. S.
 Vermilye, J. D.
 Von Post, Herman C.
 Wales, Hon. Salem H.
 Walker, Evan T.
 Wall, Michael W.
 Wallach, Antony
 Wallack, Lester
 Ward, Mrs. M. H.
 Webb, Gen. Alex. S.
 Webb, Mrs. Gen. A. S.
 Weber, John
 Webster, Sidney
 Weed, Hon. Thurlow
 Weeks, Francis H.
 Weeks, John A.

Wenman, Hon. James F.
 Wheeler, J. W.
 Wheelock, Geo. G., M.D.
 White, Norman
 Whitney, Alfred R.
 Wickham, Hon. W. H.
 Wiechers, W. A.
 Williamson, Hon. David B.
 Wilson, John
 Winston, F. S.
 Winthrop, Robert
 Witherbee, S. H.
 Wood, Hon. Fernando
 Wood, Isaac F.
 Worsham, Mrs. B. D.
 Wotherspoon, Henry H.
 Wright, Charles L.
 Wright, Samuel V.
 Wright, William Woolsey
 Wyckoff, J. F.
 Young, Mason

In Memoriam.

THE Museum has been called to mourn the loss of one of its original founders and First Vice-President,

WILLIAM A. HAINES,

who departed this life on the 5th day of March, 1880, in the fifty-eighth year of his age.

The following resolutions were unanimously adopted at a special meeting of the Board of Trustees :

RESOLVED, That this Board has received the tidings of the sudden death of our Vice-President, Mr. W. A. HAINES, with profound sorrow.

Not only was Mr. Haines one of the number from whom this Institution received its first impulse, but as Chairman of its Executive Committee, at the expense of much valuable time, he continued the supervision of its interests with unabated zeal.

His natural tastes, no doubt, exercised a strong influence over Mr. Haines in his early efforts for the establishment of the Museum.

He was deeply interested in some of the branches of the Natural Sciences, and in one specialty, as a collector and exact student, in the whole range of the subject, he had probably no superior among us.

His collection remains in its fullness and beauty, a monument of his youthful enthusiasm, which the steady and engrossing pressure of business life never extinguished.

In his relations to this Board Mr. Haines brought to the discharge of his duties a trained capacity for business; but it is not to the memory of the valued and efficient officer, whose tastes and acquirements brought him into entire harmony as well as active co-operation with its aims, and inspired large and hopeful views of its future, that we now bring our united tribute, so much as to that of the man himself. His death leaves a vacancy in the hearts of those among us who have known him longest and best.

As the useful and upright citizen we can measure him calmly at his just value, but as the friend and intimate, in his considerateness and equipoise, his sympathy and warmth, and in the whole moulding and outcome of the man, there was that which drew us to him, not only with sincere esteem, but with strong fraternal regard.

A sense of private and personal loss may not obtrude conspicuously in the official tribute which we pay so sadly to the memory of our deceased Vice-President; but while we feel called upon to recognize in him, in a rare degree, the possession of those valuable qualities which must enter freely into the undertakings of our daily life, in their appropriate direction and successful issue, we should be untrue to what is best in ourselves and most to be prized in a just estimate of the character of men, did we confine our view to these alone.

He was not only the sound and judicious adviser and the energetic man of business, but much more. There was about him a quality of refinement united to singular purity, and a temper in which decision and sweetness remarkably combined.

These made up, largely, that characteristic individuality which touched the deeper springs within us, so that while as a Board we record our testimony of the loss which we have sustained in him as one of our most prominent and active officers, we also deeply mourn the friend and brother whom we shall see no more.

