The Thirteenth

ANNUAL REPORT

OF THE

AMERICAN MUSEUM OF NATURAL HISTORY,

CENTRAL PARK, NEW YORK,

77th Street and 8th Ave.

FEBRUARY 15th, 1882.

NEW YORK.

PRESS OF MITCHELL A. C. LEVY, Nos. 90 & 92 White Street.

1882.

THE THIRTEENTH

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American Museum of Natural Histony.

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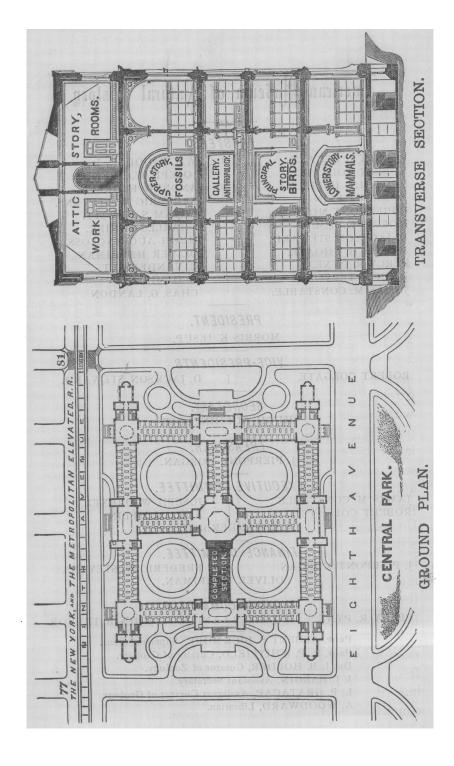
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13th Annual Report.

1881.

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

In 1875, the Commissioners of the Department of Public Parks adopted plans prepared by Mr. Frederick Law Olmsted for drives and footpaths from Central Park to our Square at Eighth Avenue and 77th and 81st Streets, but for want of funds no progress was made with this important work. The Trustees therefore were obliged to assume the onerous task of asking the Legislature to provide the means for completing this necessary improvement. The Park Department unanimously approved of our proposition, and we received important and hearty co-operation from the Mayor and Comptroller. The bill resulting from our conferences with these authorities of the City, was promptly passed by the Legislature and became law, and the Department, at our request, have publicly advertised and let the work which the contracts require shall be completed by next June.

The improvements upon our Square have been making rapid progress and have been the subject of frequent commendation by the visitors to our building and our own citizens who are interested in the completion and perfection of our system of public parks.

The rapid growth of the Economic Department has been the principal feature in the increase of our collections during the past year. The woods referred to in our last report as being in the course of collection by a corps of experienced botanists under the direction of Prof. Charles S. Sargent, have been nearly all Our new building being already filled to received. overflowing, the Department has given us the upper story of the Arsenal for a temporary place where these specimens may be exhibited at once on account of their importance to architects and builders, and the artizan and laboring classes of our citizens. of preparing them for exhibition is begun and they will be displayed to the public during the coming autumn.

The specimens of Building and Ornamental Stones forming the other portion of this Economic Department are now gathered at Washington and will be ready for exhibition at the same time. Nothing but the stern necessity of want of space would warrant us in placing such costly collections where they may be destroyed by fire in a few hours, and this illustrates the imperative need that measures be immediately taken for securing the erection by the City of another section of our fire-proof edifice.

The improvements upon the collections began last year have been vigorously carried on during the past twelve months. The Mammals which were purchased in various places, and were mounted on many different kinds of stands, have all been transferred to pedestals of polished cherry and now present a uniform and elegant appearance.

The Birds have been mostly transferred from the

white stands on which they were mounted, in Europe, to stands of polished Mahogany, and this improvement, which is still in progress, will be completed during the present year. Partitions have been placed in the cases on the east side of the Main Hall and new labels attached to a part of the Birds of North America. One hundred species, one hundred and twenty-five specimens of skins have been received from the U. S. National Museum as a portion of the exchange due us for specimens we have forwarded in previous years. A guide to the Collection of Mammals and one to that of Birds have been nearly completed.

In the Ethnological Department there has been received a very large and valuable collection illustrating the ethnology of British Columbia, gathered by Dr. J. W. Powell, Superintendent of Indian Affairs in that part of the Dominion of Canada. This collection has been made at the expense of Mr. H. R. Bishop of this city, who has presented it to the Museum. A similar series of specimens from the West Coast of Africa, gathered by Mr. O. Jackson and other agents of Messrs. Yates & Porterfield of this city, has been presented by Mr. C. P. Huntington.

Mr. Robert L. Stuart has purchased and presented to the Museum the remaining undivided third part of the collection made by Col. Chas. C. Jones Jr., illustrating the Antiquities of our Southern Indians.

In the Geological Hall, the cases on the east side have been completed and the preliminary arrangement and labelling of specimens in them have been finished. Eight of the table cases formerly at the Arsenal have been made into sixteen shorter ones and placed in the alcoves, and are now occupied by the fossils formerly

in the cases in the centre of the hall, while in the latter have been exhibited the series of Minerals known as the Bailey Collection. These specimens have been supplied with labels on which is being added the localities and names of the species in writing. Complete labels have also been placed in several of the alcove cases occupied by fossils. The skeletons of fossil birds from New Zealand, which had become somewhat impaired by the dry atmosphere of the rooms, have been saturated with glue and remounted. Early in the year a short guide to the Geological Hall was prepared and printed, and is sold in the building.

Many fine specimens of plants of the Devonian Age have been obtained by exchange from Principal Dawson, of McGill College, Canada, for the eighth series of duplicates of the Hall Collection, and are displayed in the alcove cases.

The relief-map of New Hampshire, purchased from Prof. C. H. Hitchcock has been encased and partially colored geologically. A friend of the Museum has authorized us to complete and letter it at his expense, which work will soon be undertaken.

The part of our collection, which needs to be rearranged and newly labeled, and to be largely developed by additions of lately discovered species is the Department of Conchology. The Museum already possesses in the valuable Wolfe gift, made in memory of our first President, an admirable nucleus for a complete collection in this, one of the most popular branches of natural history.

An Herbarium of North American Plants, preserved with remarkable taste and care, has been received from the late Stephen Whitney Phœnix, and forms the beginning of a new Department of special interest to those scientists devoting themselves to the study of Botany

The Brevoort Library on Fishes and other branches of Zoology, presented by Mr. Robert L. Stuart, and the Jay Library of conchological works, presented by Miss C. L. Wolfe, have been catalogued, and arranged so that any volume or pamphlet can be referred to without a moment's delay, and a librarian is now employed who has continual supervision over our books and those of the New York Academy of Sciences. These two series of volumes with moderate additions every year would soon become one of the best libraries in our land for those naturalists pursuing original scientific researches.

The Museum has commenced the issuing of bulletins, of which the first has already been published: containing three original papers on scientific subjects.

The lectures given by the Superintendent in the Department of Public Instruction to the Principals and Teachers of our public schools, were so constantly attended and in all respects so successful that the Board of Education addressed the Trustees a letter expressing their thanks for the instruction given, and asking if a larger room could not be provided where at least fifty teachers could be accommodated. Regarding this as the most direct means of making a return to the city for the liberal grants it has made for the erection and partial maintenance of their building, the Trustees, at their own expense have had work-rooms B and C made into a small lecture hall, and a course of lectures is now being delivered by the Superintendent upon Physical Geography, to be followed by another course on Zoology. The interest of the teachers in these lectures, as manifested by their constant attendance during the stormiest weather, makes this to be one of the best means the Institution can adopt in order to reach and benefit every family in our city which has a child in the public schools, and the Board of Education have indicated their estimation of the importance of this work in the following circular to the principals and teachers:

HALL OF THE BOARD OF EDUCATION, City Superintendent's Office.

November 11th, 1881.

TO THE PRINCIPALS AND TEACHERS:

In accordance with a resolution of the Board of Education, and upon the recommendation of the Committee on Course of Study and School Books, the undersigned hereby directs the attention of all teachers to the fact that the American Museum of Natural History, possessing a large and costly collection of specimens, illustrative and useful in many departments of science, is now complete, and open to the general public for visitation and inspection. The Trustees of this Museum, through the President of their Board, Mr. Morris K. Jesup, have specially extended an invitation to the teachers and scholars of the public schools, in which invitation the desire is expressed that the Museum may be utilized in the service of public education.

The undersigned therefore suggests and advises that the means of assistance in prosecuting the study of natural science, thus courteously and definitely placed at the disposal of the schools, be rendered as available for the purpose mentioned and made as practically useful as circumstances will permit.

By frequent reference to the existence of the Museum and its many treasures in the Department of Natural History, the Principals and Teachers could and should awaken the interest of the children, and by precept and example, could induce and encourage them to take advantage of the opportunity thus presented. The fact, that teachers from the several schools have traveled great distances in inclement weather to attend a course of Saturday lectures at the Museum, and were amply rewarded for their time and effort, is proof of the Museum's usefulness from an educational point of view; and an announcement of what had been done and is going to be done by teachers, would necessarily be productive of great effect upon the minds of the pupils. The elements of Natural Science, taught orally in our schools, are best presented by those who have an objective acquaintance with that about which they speak and lecture, and the pupil who can pass from the world of books and oral statements into

actual contact with the very things of which the books and statements give only imperfect pictures, is in possession of advantages which it would be inexcusable to neglect.

Teachers and Pupils should, therefore, on Saturdays and holidays, devote some portion of their time to the Museum and its collections.

Good instruction makes discipline easy. A visit by the meritorious pupils of the class, in company with the teacher, as a reward for satisfactory service during the week or month, would not only increase the pupil's knowledge, but also constitute an effective agency in securing order, interest and attention in the class room, and would thus make the teacher's labor less arduous and exhausting.

The Museum of Natural History is in Seventy-eighth street, between Eighth and Ninth avenues. It opens every day, except Sunday, at nine o'clock A.M., and closes half an hour before sunset.

Very respectfully,

JOHN JASPER,

City Superintendent.

The institution has now become of such importance in promoting public education that it should at once be placed on a permanent basis. The sum received from the city this year, after providing for the necessary work on the building, has been but little more than half of the amount required for merely maintaining the collections already acquired. This large deficiency as well as all sums for the purchase of new specimens has been given by the Trustees and a few of our citizens. To enable the Museum to continue its present important work and to extend its labors into new fields of usefulness, there is now needed an Endowment Fund, of which the interest only would be expended. The usefulness of the Institution is now so fully established and so generally recognized that we confidently appeal for assistance in making up this Fund to all the public-spirited citizens of our metropolis.

Dr. THE AMERICAN MUSEUM OF NATURAL HISTORY in acc't with J. PIERPONT MORGAN, Treas. Cr.

1881,	1881,
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	" Robert Colgate
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	" Edward Colgate
	" W. E. Connor 100 00 " A. E. Douglass 100 00
	18,804
\$86,129 IB	\$86,129 15
_	[E. & O. E.] NEW YORK, February 18th, 1882.
Examined and approved CHARLES LANIER, Auditing Committee.	J. PIERPONT MORGAN, Treasurer.

CONSTITUTION

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 the meetings of the Trustees, and attend the same.

The Treasurer shall receive and disburse the funds of the Museum. He shall keep the accounts of the Museum in books belonging to it, which shall be at all times open to the inspection of the Trustees. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as 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.

1881.

- S. T. HAMMOND, Springfield, Mass. 1 piece of Rose Quartz.
- WM. H. BARTLETT, New Bedford, Mass. 1 Arctic Whale Bone.
- DER HISTORISCHE VEREIN FUR STEIERMARK, Graz. Mittheilungen, XXVIII. & XXIX. Heft. Beitrage, 17. Jahrgang. Festschrift zur Erinnerung an die Feier, etc.
- DER NATURWISSENSCHAFTLICHE VEREIN FUR STEIER-MARK, Graz.
 Mittheilungen, 1879 & 1880.
 "Das Chemische Institut."
- Hon. FRANCIS KERNAN.

 Bulletin No. 5, publications of the U. S. Entomological Commission—"The Chinch-Bug."
- Hon. CLARENCE KING, Director of the U.S. Geological Survey, Washington.

 1st Annual Report—1880.
- MRS. S. S. HALDEMANN, Chickies, Pa.

 A collection of Ethnological Specimens from British Guiana.

 A series of Stone Implements from Pennsylvania, etc.
- FREE PUBLIC LIBRARY, Liverpool, England. 28th Annual Report.
- DEPARTMENT OF PUBLIC WORKS, Chicago, Ills. 3d Annual Report—1878
- L'ACADEMIE ROYALE DE COPENHAGUE. Bulletin 1880—No. 2.
- BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, N. Y. Bulletin, Vol. III, No. 5.
- JED. HOTCHKISS, Editor and Publisher, Staunton, Virginia.
 "THE VIRGINIAS," a Mining and Scientific Journal —
 Vol. I, 1880.
- ABIEL ABBOT, New York. 1 Ocean Fish.
 - 1 Whale's Tooth.
 - 1 Specimen Branch Coral.
- MINNESOTA HISTORICAL SOCIETY, St. Paul. Biennial Report, 1881.
- ROBERT L. STUART, Esq., N. Y.
 1 Volume "Conchologia Indica."
 11 pieces—Fragments of Roman Pottery.

DEPARTMENT OF THE INTERIOR, Washington, D.C.

Report of the Commissioner of Education, 1878. "Library Aids."

Bulletins 1 and 2, Volume 6.—Hayden.

6—Entomological Commission.

Resources of Alaska.—Petroff.

First Annual Report, U.S. Geological Survey.—King.

Prof. GEO. H. COOK, State Geologist of New Jersey. Annual Report, 1880.

LUCIEN CARR, (the author.)

"Notes on the Crania of New England Indians."

"Observations on Crania."

SMITHSONIAN INSTITUTION, Washington, D.C.

Report for 1879.

"Contributions to Knowledge," Vol. 23.
"Miscellaneous Collections," Vols. 18, 19, 20, 21
"The Silk Goods of America," Wyckoff.

2 specimens 1 species of fossils.

Through the SMITHSONIAN INSTITUTION, Washington, D.C. Museo National de Mexico.

Anales, Tomo II. Entréga 3ª, 4ª, 5ª. K. K. Geologischen Reichsanstalt, Wien.

Verhandlungen, Jahrgang 1880.
The Norwegian North-Atlantic Expedition, 1876-78.

Zoology. Fishes, by R. Collett.

" III. Gephyrea. Chemistry. I. II. III. by H. Tornoe.

Royal Society of Tasmania.

Report and Proceedings for 1879.

L'Institute Royale Grand-Ducal de Luxembourg. Publications—Tome XVIII. 1881.

Naturforschenden Gesellschaft Graubundens, Chur Jahres-Bericht 1877-78-1878-79 und 1879-80.

Naturforschenden Gesellschaft, Zurich. Vierteljahrsschrift 1879 und 1880.

London Society of Arts, England. Journal 1879-80. Vol. 28.

Der Offenbacher Verein für Naturkunde. Bericht-19th, 20th and 21st,-1877-80.

ASTOR LIBRARY, New York. 32d Annual Report, 1880.

ANDREW E. DOUGLASS, Esq., N. Y.

21 Crania of Indians, West Coast of Florida.

F. M. ROGERS.

1 fine grooved Indian Axe, Bay Shore, L. I.

JOHN MICHELS, Esq., N. Y.

1 piece of Teak from ship "Royal George."

GEOLOGICAL SURVEY OF ALABAMA, through Eugene A. Smith. State Geologist, Montgomery. Report of Progress for 1879 and 1880.

W. W. JEFFERIS, West Chester, Pa. 14 Mineralogical specimens. C. D. WALCOTT, N. Y.

1 Mineralogical specimen.

J. W. DEEMS, Brooklyn.

3 specimens Minerals.

HENRY W. BELKNAP, Hartford, Conn. 16 specimens of South American and other Birds.

PEABODY MUSEUM, Cambridge, Mass. 14th Annual Report.

R. D. LACOE, Pittston, Pa.

"Coal Flora of Pennsylvania," by Lesquereux.

CAPT. JOHN M. DOW, N. Y.

A Life-size Stone Image with arms akimbo, unearthed in a trench at the foot of the Volcano of Turraalba, Costa Rica, presented to Captain Dow by the Governor of Cartago.

G. A. BOARDMAN, Calais, Me.

i specimen of the Young of the Petrel. Gullimot.

OESTERREICHISCHER INGENIEUR & ARCHITEKTEN VEREIN. Wien.

II. Bericht des Hydrotechnischen Comités, etc., etc." 1881.

MINISTERIO DE FOMENTO, Mexico.

Revista, Cientifica Mexicana, Tomo 1. Num. 16. Revista Mensual Climatoligica Agosto de 1881. Boletin del —— Tomo VI, Num. 131. Anales de —— Tomo V, 1881.

INDIAN MUSEUM, Calcutta.

Annual Report and Lists of Accessions, April '80 to March '81

SIEBENBURGISCHEN VEREINS FUR NATURWISSENSCHAFT in Hermannstadt.

Verhandlungen und Mittheilungen, XXXI. Jahrgang.

NEW YORK ACADEMY OF SCIENCES, N. Y. Transactions 1881-82.

MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass. Through Prof. A. Agassiz, Curator. Annual Report 1880-1.

REV. S. D. PEET, Chicago, Ills.

The Am. Antiquarian and Oriental Journal, Vol. IV. No. 1.

JOHN J. NATHANS, N. Y., through Mr. W. A. Conkling, N. Y. A large Richly Ornamented Vase from Mexico.

P. R. SLEIGHT, Lagrange, N. Y. A series of Indian Bones.

WM. DELL HARTMAN, M.D., (the author) Westchester, Pa. "Observations on the Species of the Genus Partula."

PROF. JAMES HALL, (the author) Albany, N. Y. "Corals & Bryozoans of the Lower Helderberg Group." '80. "Bryozoans of the Upper Helderberg Group." 1881.

UNIVERSITY OF TOKIO, JAPAN. Through Hon. H. Kato, President of the Department of Law, Science and Literature.

"Geology of the Environs of Tokio," by Dr. D. Brauns. '81.
"Measurements of the Force of Gravity," by Dr. T. C.
Mendenhall.—1881.

BERNARD QUARITCH, London, England. Catalogues for 1881.

C. P. HUNTINGTON, Esq., N. Y.

A collection of specimens illustrating the Ethnology of the
West Coast of Africa and Zululand, and a Manuscript Map of same.

H. R. BISHOP, Esq., N. Y.

A collection of specimens illustrating the Ethnology of British Columbia.

GEOLOGICAL SURVEY OF CANADA. 7 specimens, 4 species fossils.

F. O. FRENCH Esq., N. Y. Casing and painting Geological Map of New Hampshire.

PROF. O. C. MARSH, New Haven, Conn. Casts of Bones of Fossil Toothed Birds, 26 pieces.

SANDERSON SMITH, Esq., Staten Island. 85 specimens, 33 species Cretaceous and Tertiary Fossils from England.

PROF. J. W. DAWSON, Montreal, Can. 295 specimens, 30 species. Post Pliocene Fossils, Canada. 12 specimens, 7 species Coal-plants. 2 species Graptolites.

M. K. JESUP, Esq., N. Y. A large and beautiful collection of Fossils and Minerals comprising many of great value. Fossils 1062. Minerals 185.

F. A. CALKINS, Esq., N. Y. Several Blocks of Cemented Gravel, Peekskill. JOHN WILSON, Esq., N. Y.

12 specimens Cretaceous Fossils from Colorado. PROF. W. B. DWIGHT, Vassar College.

6 slabs of Trenton Limestone, with Fossils.

PROF JULES MARCOU, Cambridge, Mass. 10 Trilobites and other Primordial Fossils.

MADISON UNIVERSITY, Hamilton, N. Y. 71 specimens Fossils in exchange for labeling done for them by curator.

PATRONS,

By the Payment of Twenty-five Hundred Dollars.

By the Payment of Twen	ty-five Hundred Dollars.
ROBERT L. STUART, \$24,953 Miss C. L. WOLFE	JOHN D. WOLFE* \$5,000 ABRAM S. HEWITT 4,250 C. VANDERBILT 4,100 J. PIERPONT MORGAN 3,750 CHARLES LANIER 3,750 THEODORE ROOSEVELT* 3,300 D. JACKSON STEWARD 3,250 EDWARD CLARK 3,000 A. G. PHELPS DODGE 2,500 JAMES BROWN* 2,500 A. T. STEWART* 2,500 S. WHITNEY PHENIX* 2,500
FELLOWS IN	PERPETUITY,
	ne Thousand Dollars.
BENJAMIN H. FIELD \$2,250 WILLIAM T. BLODGETT* 2,200 OLIVER HARRIMAN 2,050 ROBERT BONNER 2,000 JAMES B. COLGATE 2,000 ALEXANDER STUART* 2,000 WILLIAM A. HAINES* 1,750 BENJAMIN AYMAR* 1,500 RICHARD ARNOLD 1,500 JOSEPH H. CHOATE 1,500 JONATHAN THORNE 1,500 JOHN A. C. GRAY 1,250 HEBER R. BISHOP 1,250 CHAS. G. LANDON 1,100 WILLIAM E. DODGE 1,000 PETER COOPER 1,000 PETER COOPER 1,000 B. H. HUTTON 1,000 J. TAYLOR JOHNSTON 1,000	D. N. BARNEY*
FELLOWS	FOR LIFE,
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