THE FIFTEENTH

ANNUAL REPORT

OF THE

American Museum of Natural History

(CENTRAL PARK, NEW YORK,)

77th Street and 8th Avenue.

MARCH, A. D. 1884.

PRINTED FOR THE MUSEUM.

WM. C. MARTIN, PRINTER, 111 JOHN STREET.

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American Museum of Natural History.

Trustees.

MORRIS K. JESUP.
ROBERT COLGATE.
BENJAMIN H. FIELD.
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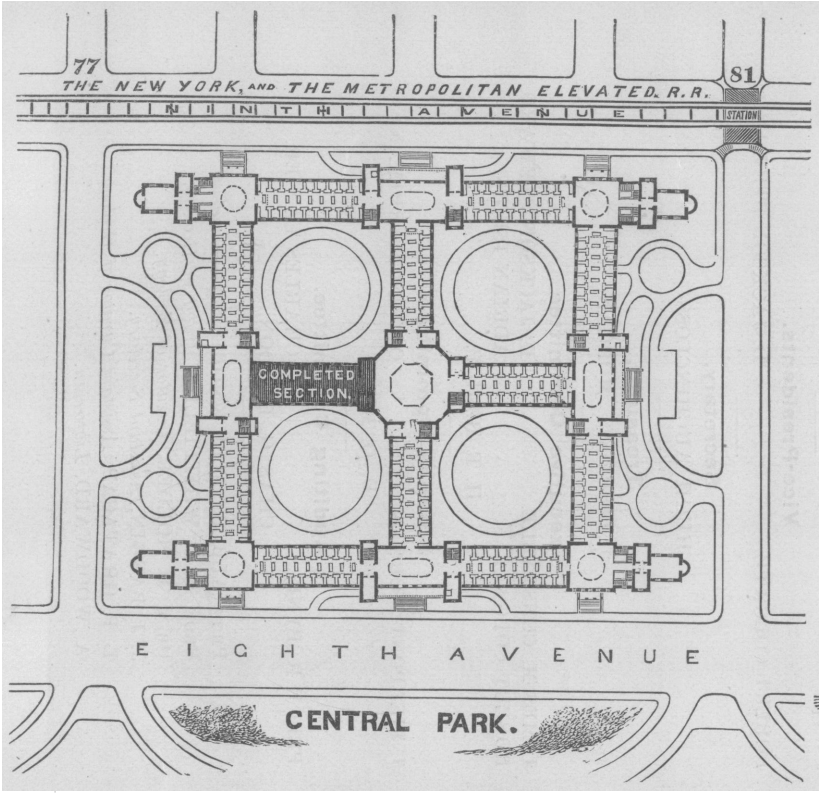
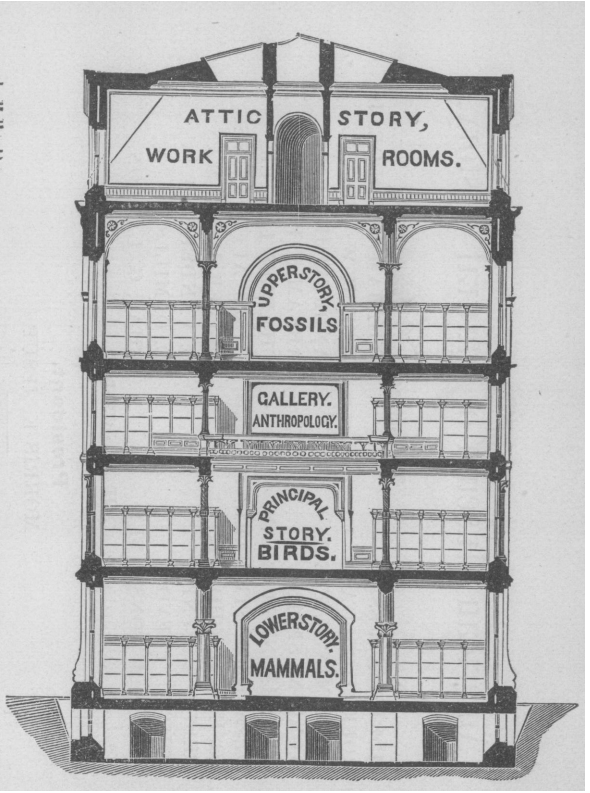


GROUND PLAN.



TRANSVERSE SECTION.

FIFTEENTH ANNUAL REPORT.

1883.

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

The Treasurer's Report shows a gratifying increase in receipts from Life and Annual Members, and from Special Contributions other than those from the Trustees, thus relieving the Board of a part of the heavy expenditures for maintaining the Museum during the year.

A considerable increase in the number of visitors to the Museum is also a cause for congratulation.

The work on the improvements to the grounds surrounding the Museum shows satisfactory progress and signs of early completion. For this we are indebted to the kind coöperation of the Department of Parks.

By the operations of the contract entered into a year ago for the purchase of all the birds and mammals necessary to complete the Collections of the Museum, north of the Rio Grande, over eighty American mammals and one hundred birds have been added to the Collections during the year. There were also added fine specimens of the Gorilla and Chimpanzee, with some fifty other monkeys from all parts of the world.

The Skeleton of a Whale, given to the Museum some years ago by the late Peter Cooper, has also been placed on exhibition for the first time.

Guides to the Collections of birds and mammals have been prepared and placed on sale, and many have availed themselves of this means to study the Collections.

Dr. Edgar A. Mearns has made a large donation of skins of North American and European birds, and their eggs, which supplements in an important degree our series on exhibition. He has also given a suite of the skins of our native birds, as the

beginning of a STUDY COLLECTION, to remain unmounted and be reserved for the use of specialists in that department. It is hoped that this gift may be followed by others from those interested in the formation of such a Collection. Dr. Mearns has also been employed to identify, label and catalogue all our European birds, a work now satisfactorily completed.

Through the liberality and coöperation of Mr. Jos. W. Drexel, an entire change has been made in the Insect Department. Suitable cases have been constructed, and the entire collection, except types and specially rare specimens, has been placed on exhibition, and now forms one of the attractive features of the main hall. A STUDY COLLECTION has also been begun in this department.

The Department of Archæology has received a large and valuable gift from Mrs. Robert L. Stuart, being an extensive series of the stone implements of the Palæolithic and Neolithic periods of France and Switzerland.

To the Powell Collection Mr. Heber R. Bishop has added the large Canoe suspended in the main hall, and the four heraldic posts in the hallway.

In the Geological Department the Curator, Professor Whitfield, has carried forward the preliminary labelling, and has begun to place the permanent labels. The labelling of the Collection of Minerals has also been completed.

By the liberality of Miss C. L. Wolfe, the Museum has been enabled to employ a specialist to properly arrange and label the Wolfe Memorial Collection of Shells, and that work is still in progress.

The attendance by the teachers of the public schools upon the lectures given by the Superintendent, Prof. A. S. Bickmore, has been well maintained, and this instruction has received the attention it so justly merits.

To the Museum Library has been added, during the year, 440 volumes, 444 numbers and parts, and 300 pamphlets. To accommodate these and the large additions made to the library of the New York Academy of Sciences, we have been obliged to construct additional temporary cases in the corridor, our library-room being already overcrowded.

Bulletin No. 4, on the Atlantic Whales, was issued during the

early part of the year, and distributed to institutions and individuals all over the world.

A bequest of $5000 (the first the Museum has received) has been paid by the executor of the estate of the late Hon. Wm. E. Dodge, and the Trustees have thought best to place on record the following resolution regarding the same and other bequests that it is hoped may from time to time be made:

"Whereas, the Board of Trustees of the Museum of Natural History in Central Park regard it as highly important to constitute a permanent endowment fund of which the interest only shall be applied to the use of the Museum, as shall be deemed most expedient by the Board, and therefore it is resolved that the Board do hereby establish a fund to be called a permanent endowment fund."

"*Resolved*, that the bequest of the late Wm. E. Dodge of $5000 be hereafter known as the Wm. E. Dodge Fund, and that the same shall constitute a part of the permanent endowment fund."

It is the desire and aim of the Trustees to place the Collections of the Museum in such condition that they may be as useful and instructive to visitors as possible. The limited means at the disposal of the institution permits of only moderate advancement in this important feature.

The Trustees beg to again call attention to the urgent necessity for an additional section to the Museum building. The already overcrowded state of the present structure makes another wing an imperative necessity.

It is believed that the city, which has been so liberal hitherto in all matters of education and culture, will be ready to grant the means for such an additional edifice, if an endowment fund for the steady development of the institution be supplied from private sources, and the Trustees again appeal to all public-spirited citizens to join them in commencing such a fund.

Dr. *The* **American Museum of Natural History** *in account with* J. PIERPONT MORGAN, TREAS. **Cr.**

1883.

Salaries	$13,925 00
Labor	4,517 26
Supplies	264 51
Altering Cases and Repairs on Building	1,129 99
Printing and Stationery	586 71
Postage, Expressage and Car Fare	296 32
Reception, Advertising and Sundries	511 53
Paid Architect's Fees	400 00
Publishing Bulletin, Guides and Annual Report	1,071 05
Improvements on the Collections and Labels	2,604 40
Birds and Mammals Purchased	6,524 54
Books Purchased	132 51
Giving Lectures	737 27
Balance carried to 1884 Account	292 69
	$32,993 78

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

1883.

January 1st.	By Balance from 1882 Account	$ 627 93
	By Cash from Miss C. L. Wolfe	1,500 00
	" Mrs. R. L. Stuart	1,000 00
	" Jesse Seligman	1,000 00
	" H. M. Flagler	500 00
	" Morris K. Jesup	500 00
	" Robert Colgate	500 00
	" Jas. M. Constable	500 00
	" Hugh Auchincloss	500 00
	" H. R. Bishop	500 00
	" D. O. Mills	500 00
	" Adrian Iselin	500 00
	" Percy R. Pyne	500 00
	" C. Vanderbilt	500 00
	" J. Pierpont Morgan	500 00
	" John B. Trevor	300 00
	" B. H. Field	250 00
	" Chas. G. Landon	250 00
	" Oliver Harriman	250 00
	" Charles Lanier	250 00
	" Wm. E. Dodge, Jr.	250 00
	" Abram S. Hewitt	250 00
	" Jos. W. Drexel	160 00
	" Jos. H. Choate	125 00
	" Dr. W. B. Neftel	100 00
	" Elizabeth Aymar	100 00
	" Benjamin Welles	100 00
	" George Kemp	100 00
	" C. W. Chapin, Jr.	100 00
	" H. Victor Newcomb	100 00
	" Mrs. H. Herrman	100 00
	" J. H. De Mott	100 00
	" C. P. Britton	100 00
	" C. Amory Stevens	100 00
	" H. B. Plant	100 00
	" Hon. Edward Cooper	100 00
	" E. A. Moen	100 00
	" Seth Barton French	100 00
	" S. De Jonge	100 00
	" A. C. Kingsland	100 00
	" George Garr	100 00
	" David Banks	100 00
	" Henry Clews	100 00
	" James A. Raynor	100 00
	" Mrs. Jas C. Ayer	100 00
	" Dr. C. M. Cauldwell	100 00
	" Hon. Ben. A. Willis	100 00
	" The Sale of Guides	190 00
	From the Department of Public Parks and Annual Members	18,790 85
		$32,993 78

[E. & O. E.] NEW YORK, *February* 14, 1884.

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, an Executive Committee, an Auditing Committee and a Finance Committee, all to be elected from the Trustees. All these Officers shall hold their offices for one year, and until their successors shall be elected.

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

ARTICLE V.

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

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

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

ARTICLE VI.

The Executive Committee shall consist of seven, of whom the President and Secretary shall be two. They shall have the control and regulation of the Collections, Library and other property

of the Museum; and shall have power to purchase, sell and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding, in all, ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees.

ARTICLE VII.

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

ARTICLE VIII.

The Finance Committee shall consist of three, including the Treasurer, and it shall be their duty to take charge of and invest the funds of the Museum in its name, and to take all proper measures to provide means for its support.

ARTICLE IX.

A majority of the Trustees for the time being shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE X.

By-Laws may from time to time be made by the Trustees, providing for the care and management of the property of the Corporation, and for the government of its affairs.

Such By-Laws, when once adopted, may be amended at any meeting of the Trustees, by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XI.

The contribution of $1000 or more to the funds of the Museum, at one time, shall entitle the person giving the same to be a Patron

of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of $500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid, unless the same shall be in writing, endorsed on the certificate, or by last will and testament.

The contribution of $100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue Diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XII.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees; nor by the votes of less than two-thirds of all the Trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

BY-LAWS.

I.

Patrons giving $1000 are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets and 10 Tickets for a single admission.

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

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

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

[NOTE.—The Exhibition Halls of the Museum are open free to the public on Wednesdays, Thursdays, Fridays and Saturdays, and on all public holidays.

Mondays and Tuesdays are reserved for Subscribers and their friends, Students and Contributors, when admission is by ticket.

A Subscriber's Ticket admits two or more persons on Mondays and Tuesdays to all parts of the Museum, including the Library; also to the Lectures (when given in the public Exhibition Halls) and to all Receptions and Special Exhibitions. It may be used by any adult member of the Subscriber's family.

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

II.

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

III.

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

IV.

No indebtedness shall (except for current expenses) be incurred by the Trustees of the Museum, nor by any of its Committees, Officers or employés, unless there are at the time sufficient moneys in the Treasury to pay the same.

LIST OF ACCESSIONS—1883.

DONATIONS.

LIBRARY.

PROF. JOS. LE CONTE (the author), Berkely, Cal.
"On certain Remarkable Tracks, found in the Rocks of Carson Quarry."
"On Mineral Vein Formation."
"On the Genesis of Metalliferous Veins."

G. C. BROADHEAD, State Geologist, Pleasant Hill, Mo.
"Carboniferous Rocks of Eastern Kansas." (The author).

PROF. C. S. SARGENT, Director Arnold Arboretum, Cambridge, Mass.
Annual Report, 1881–82. 1883.

DR. ANTONIO DE GREGORIO (the author), Palermo, Sicily.
"Sulla Fauna delle Argilla Sacgliose di Sicilia."
"Nota sul Rilevamento della carta geologica di Sicilia."
"Su talune forme e specie nuove Malta e Sicilia."
"Una gita sulle Madonie e sull'Etna."
"Sulla costituzione di una Società geologica internazionale."
"Studi su talune ostriche viventi e fossili, 1883."
"Moderne nomenclature des coquilles des Gastéropodes et des Pélécypodes, 1883."
"Moderne nomenclature des coquilles dans un grand tableau."
"Elenco di fossili dell' orizzonte a Cardita Jouannetti Bast. 1883."
"Nuovi fossili terziari."

PROF. R. HITCHCOCK, Washington, D. C.
Barrande's Défense des Colonies. V.
" Acéphalés. Vol. VI.

DR. A. RENARD, Brussels, Belgium.
"Analyses de la Vésuvienne d'ala et de Monzoni."
"Recheres sur la composition et la structure des Phyllades Ardennies."

JED. HOTCHKISS, Editor and Publisher, Staunton, Va.
"The Virginias," a Mining and Scientific Journal. Vol. IV. 1–6, 8–12. 1883.

THEO. S. CASE, Editor and Publisher, Kansas City, Mo.
Kansas City Review of Science and Industry. Vol. V, VI. 9–12, VIII. 1–8. 1881–83.

J. T. GARDINER, Director New York State Survey, Albany.
Report of the Board of Commissioners. 1877.
Report of the Director. 1877–81.

R. E. CALL, David City, Neb.
"Löss and associated Deposits of Des Moines."

O. J. HOLLISTER, Salt Lake City, Utah.
"The Resources and Attractions of Utah."

U. P. JAMES (the author), Cincinnati, Ohio.
The Palentologist, No. 7.

JOSEPH F. JAMES (the author), Cincinnati, Ohio.
"A Revision of the genus Clematis of the United States."

EDWARD POTTS (the author), Philadelphia, Pa.
"Fresh Water Sponges."

J. S. FAY (the author), Wood's Holl, Mass.
Wood's Holl. The Track of the Norseman.

W. M. DAVIS (the author), Boston, Mass.
"Structural value of the Trap Ridges of the Connecticut Valley."

PROF. A. S. PACKARD, JR. (the author), Providence, R. I.
"The Systematic Position of the Archipolypoda."
"Repugnatorial Pores in the Lysiopetalidæ."
"Notes on Lepidopterous Larvæ."
"A new species of Polydesmus with eyes."

J. C. DALTON, M.D., New York.
"Experimentation on Animals." (The author).
"A Treatise on Human Physiology." (The author).
"Anatomy of the Invertebrata."—Siebold.
"Entozoa."—Cobbold.
"Lepidosiren Paradoxa."—Bischoff.
"Entwickelungsgeschichte der Cephalopoden."—Kölliker.
"Uber die Entwickelung der Schildkröten."—Rathke.
"Uber das Nabelblaschen und die Allantois."—Mayer.
"De hepate et bile Crustaceorum et Molluscorum."—Karsten.
"Uber die Spermatozoiden der Locustien."—Siebold.
"The Placenta and Generative apparatus of the Elephant."—Chapman.
A Sketch of the Progress of American Mineralogy.—Brush.
Report of the Supt., of the U. S. Coast Survey. 1859, 1866.
Report of the U. S. Geological Survey. Clarence King, Director.
U. S. Geological Survey of the Territories. Vol. XII. Fresh-water Rhizopods of North America.—Leidy.
Census Bulletin. No. 263.
" " Extra. Cereal Production of the United States.
U. S. Geog. Survey West of the 100th Meridian. Vol. VI. Botany.
"Grasses and Forage Plants" (second edition).—Flint.
"On the Food of Animals."—Thomson.
"On the Structure of the Orang Outang."—Chapman,
Sitzungsberichte der Mathem. Nat. Classe LXXXIV, Bd., III. Heft.

C. D. WALCOTT, ESQ., Washington, D. C.
Report of the Chief of Engineers, for the years 1877-81.

MISS ELLEN COLLINS, New York.
"Experiment to Determine the Comparative Value of Fuel."—Bull.
"Essay on Vision."—Adams.

CHAS. TUNISON, ESQ., New York.
Transactions of the New York State Agricultural Society. Vol. XXIV, 1864; XXVI, 1866.

C. WACHSMUTH, ESQ., Burlington, Ia.
Remarks on Glyptocrinus and Reteocrinus, two genera of Silurian crinoids. By Wachsmuth and Springer.

L. P. GRATACAP, ESQ, Staten Island, N. Y.
"Night- and Fog-signalling Apparatus."—Vreede.

DR. J. B. HOLDER, New York.
"Chemistry of the Cobb-Bishop Poisoning."—Doremus and Witthaus.
"Annual Descriptive Catalogue, 'Roses.'"—Bridgeman's.

A. P. GOODWIN, Esq.
The Industrial Arts of India. Parts I and II. By G. M. Bridwood.

Prof. S. I. SMITH (the author), New Haven, Conn.
"Early Stages of Hippa talpoida"
"Crustaceans of the Atlantic Coast."
"Notes on Crustacea. Vancouver and the Queen Charlotte Islands."
"Species of Pinnixa inhabiting the New England Coast, etc."
"Preliminary Notice of the Crustacea dredged in 64 to 335 fathoms off South Coast of New England, etc."
Report on the Crustacea. Part I, Decapoda. (Bull. X. 17. Mus. Comp. Zoöl.).

A. E. BRUNN (the author), Ithaca, N. Y.
"Tineidae Infesting Apple Trees at Ithaca."

P. H. CARPENTER, Esq., London, Eng.
"On the Classification of the Comatula."
"On the Supposed Absence of Basals in the Eugeniacrinidæ and in certain other Neocrinoids."

W. E. HIDDEN, Esq., Statesville, N. C.
"A Phenomenal Find of Fluid-Bearing Quartz Crystals."

F. W. PUTNAM (the author), Cambridge, Mass.
"Notes on Copper Implements from Mexico."
"Iron from the Ohio Mounds, etc."
"Pueblo Pottery."

THOMAS SOUTHWELL (the author), England.
"On the Occurrence of the Atlantic Right Whale."
On the Beaked or Bottle-nose Whale (*Hyperoodon nostratus*).

W. A. CONKLIN, Ph.D., New York.
The Journal (Formerly Archives). Comparative Medicine and Surgery. Vol. I, II, III, IV. 1881–83.

J. J. BARGIN, New York.
Guide to the Collection of Meteorites. British Museum.
Index to the Collection of Minerals. " "
Guide to the Exhibition Galleries. " "
Guide to the Exhibition Galleries. Nat. Hist. British Museum.
Official Catalogue. International Fisheries Exhibition. London, 1883.

J. A. MACDONALD (the author), Eustis, Fla.
"Plain Talk about Florida."

Prof. A. S. BICKMORE, New York.
8 Pamphlets.
New York Horticultural Society. Monthly Reports. February, March, April, May, 1882.
"Notes on the Extension of the Coild Arms in Rhynchonella."—Morse.
Panoramic View of the Germano-French Frontier Territories.

Prof. J. M. WHEATON (the author), Columbus, Ohio.
"Report on the Birds of Ohio."

Dr. E. A. MEARNS (the author), Highland Falls, N. Y.
"A Partial List of the Birds of Fort Klamath, Oregon."

G. F. KUNZ (the author), New York.
"American Gems and Precious Stones."

Dr. A. A. JULIEN (the author), New York.
"The Volcanic Tuffs of Challis, Idaho, etc."
"The Decay of the Building Stone of New York City."
"The Genesis of Crystalline Iron Ore."
"The Dunyte-Beds of North Carolina."

ARNOLD HAGUE (the author), New York.
"Geology of the Eureka District, Nevada."

B. SMITH LYMAN (the author), Northampton, Mass.
Map of the Oil Lands Surveys of Japan. Topographical and Geological.

S. B. SCHIEFFELIN (the author), New York.
"The Foundation of History."

SANDERSON SMITH, Esq., New Brighton, Staten Island, N. Y.
Report on the Condition of the Academy of Natural Sciences, Philadelphia.—Ruschenberger.
Commercial Relations. Vol. II, IV.

CHAS. E. WRIGHT, Marquette, L. S., Mich.
Commissioner of Mineral Statistics. Annual Report, 1882.

Prof. JAMES HALL, Albany, N. Y.
Geol. Survey. State of New York, Palæontology. Vol. V. Part I, "Lamellibranchiata."

S. H. SCUDDER (the author), Cambridge, Mass.
"Pine Moth of Nantucket.—Retinia frustrana."

Prof. E. C. PICKERING (the author), Cambridge, Mass.
"Mountain Observatories."

S. F. EMMONS, Esq., Washington, D. C.
Bulletin of the U. S. Geological Survey, No. 1. 1883.

JAMES TERRY, Esq., New York.
First Annual Catalogue of the State Museum of California.

Hon. R. P. FLOWER, M.C., New York.
War of the Rebellion. Series I.—Vols. V, VI, VII, VIII, IX.
Compendium of the Tenth Census. 1880.
Tenth Census of the United States. Vol. I. Population.

C. H. PECK, State Botanist, Albany, N. Y.
Annual Report. 33d–34th. 1880–81.

Prof. W. B. SCOTT, Princeton, N. J.
Bulletin 3 of Princeton College.

H. H. YOUNG, Secretary of the State Board of Immigration, St. Paul, Minn.
"Resources and Capabilities of Minnesota."

Prof. N. H. WINCHELL, State Geologist of Minnesota, Minneapolis.
Annual Report. 1881.

R. G. PIKE, Commissioner, Middletown, Conn.
Report of the Commissioners of Fisheries, Conn., 2nd, 17th. 1883.

Dr. L. G. DE KONINCK, Liége, Belgium
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ECONOMIC DEPARTMENT.

MOBILE FURNITURE MANUFACTORY, Mobile, Ala.
1 specimen Red Gum Tree.

A. M. DODGE & CO., Jersey City, N. J.
1 Plank specimen Walnut.
1 " " Butternut.
1 " " Cherry.
1 " " Birdseye Maple.
1 " " White Pine.
1 " " Ash.

A. M. CANNON, Spokane Falls, Wash. Ter'y.
2 Plank specimens Tamarack.
1 " " White Pine.

ETHNOLOGICAL DEPARTMENT.

L. G. DEKONINCKE, Liege, Belgium.
5 Stone Implements.

DR. J. C. DALTON, New York City.
6 Javelins poisoned with "Woorara" from the Cachibo Indians, Ucayali River, Peru. Collected by Prof. J. W. Wright.
1 Mummified Diminutive Head of an Indian. Andes.
1 Scalp Lock. Sioux Indians.

THOMAS MEYER, New York City.
1 Obsidian Arrow Head, found in the Yellow Stone Valley.

DR. H. M. BACHELER, Gaboon and Corisco Mission, Gaboon, West Africa.
3 Swords used by Pangwe Tribe.
1 Tomahawk used by Galwa Tribe.
1 Broad War Knife used by Galwa Tribe.
1 Pipe used by Pangwe Tribe.
2 Spear Points used by Pangwe Tribe.
1 War Knife used by Galwa Tribe.
1 Armlet from Ogowe River.
Native Cloth used by Ivilli Tribe.

MRS. PAUL B. LEEDS, New Iberia, La.
Nest of Ten Baskets made by Native Indians, Louisiana.

MRS. R. L. STUART, New York City.
A large and valuable collection of Stone Implements of the Palæolithic and Neolithic Periods of France, Switzerland, and England, numbering over 2000 specimens.

H. R. BISHOP, New York City.
1 Large Canoe. } From British Columbia.
4 Totem Posts. }

HUGH AUCHINCLOSS, New York City.
A large and valuable collection of the Dresses and Weapons of the Indians of the Columbia River Valley, collected by Mr. James Terry.

MAJ. C. D. WARNER, U. S. A.
War Club of Nez Percé Indians.

MAJ. SEWELL TRUAX, U. S. A.
Papoose Cradle, Nez Percé Indians.

BOTANICAL DEPARTMENT.

ANDREW B. FORBES, San Francisco, Cal.
32 species of Hawaiian Ferns, pressed and mounted.

CAPT. GEO. M. WHEELER, U. S. Geographical Survey, Washington, D. C.
A collection of (108) Plants representing the Mountain Flora of Colorado.

INSECT DEPARTMENT.

JOSEPH W. DREXEL, New York City.
Paid for 152 Cases for the Insect Collection, also for the construction of suitable frames to place them on the wall.

ZOOLOGICAL DEPARTMENT.

MR. FRANKFIELD, New York City.
6 Blocks of Whale's vertebræ.
1 Cranium of same.

MRS. R. L. STUART, New York City.
1 Argus Pheasant.

S. S. OSGOOD, New York City.
Several specimens and species of Echini and Sponges.

R. D. WOOD.
2 specimens Frigate Pelecan.
1 specimen Tropic Bird.

A. P. GOODWIN.
A "Brilliant Crow" (Menucodia Comerii).

W. A. CONKLIN, New York City.
Eggs of Python biseriatus.

R. W. MONROE, Staten Island, N. Y.
The Skin of the Florida Crocodile.
The Skull of a large American Alligator.

DR. EDGAR A. MEARNS, U. S. Army.
A collection of 276 specimens of the Fishes of Hudson River, in Alcohol, and handsomely bottled and labelled for exhibition.
A number of Reptiles similarly furnished.
Four hundred and thirty (430) Skins of European Birds (suitable for mounting), including many species not before seen in our collections.
One hundred and forty (140) Skins of European Birds, prepared for uses of a *Study Collection.*
A collection of Skins of North American Birds, suitable for mounting, and two hundred and ten (210) ditto for study uses.
A large collection of Nests and Eggs.
A collection of Stuffed Fishes.
A collection of Native Tortoises and the Skeletons of same.
1 Lammergeyer Vulture.
6 specimens of mounted Mammals.
15 specimens of mounted Birds.
38 species of Native Fishes, in Alcohol.
Eggs of 27 species of European Birds.

MRS. E. DOBBIN, Five Points House Industry, New York City.
6 specimens Birds Nests.

GEOLOGICAL DEPARTMENT.

H. BOOTH, Poughkeepsie, N. Y.
One Gypsum specimen, from the Salt Vats at Syracuse, N. Y.
One specimen of Azurite from Arizona.

H. McCREARY, New Concord, Ohio.
4 specimens of Coal Measure Fossils from Guernsey Co., Ohio.

H. MOORES, Columbus, Ohio.
11 species of Upper Helderberg Fossils from Columbus, Ohio; and 17 species of Coal Measure Fossils from Carbon Hill, Ohio.

PRINCIPAL J. W. DAWSON, Montreal.
9 Slabs of Graptolites from the Quebec Group, Point Lévis, Canada.

MRS. ROBERT L. STUART, New York City.
Meteorite from Atacama, Chili, S. A.
Specimen of Calcedony with water inclusion, from Brazil, S. A.

ADRIAN ISELIN, New York City.
About 100 specimens of Minerals, including Staurolites, Andalusites, Claydogs, &c.

A. P. GOODWIN, New York City.
100 species of Land and Marine Shells from Port Jackson, Fla.

L. DE MORGAN, New York City.
Specimens of Cretaceous Fossils from Marlborough, N. J.

J. F. WHITEAVES, for the Geol. Surv. of Canada.
4 specimens of *Triarthrus spinosus*, Bill, from the Utica Slate at Ottawa, Canada.

DR. H. M. BATCHELOR.
Specimen of Steatite, Sea Shell and fragment of Fossil Fish from Africa.

WILLIAM J. WALLACE, New York City.
Several slabs and separate Fossils from near Schoharie, N. Y.

JOSEPH WILCOX, Philadelphia, Pa.
35 Miscellaneous specimens of Minerals from various localities.

GEO. H. WESTERVELT, New York City.
1 specimen of Quartz, and one of Oligoclase from Marble Island, Greenland.

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20 specimens of Schoharie Grit Fossils from Goshen, N. Y.

E. O. ULRICH, Covington, Ky.
113 determined species of Lower Silurian Bryozoans.

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38 specimens of Minerals from various localities.

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One specimen of Stilbite.

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26 specimens of Coal Measure Fossils from Las Vegas, New Mexico.

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One very valuable specimen of Native Wire Silver from Silver Islet, Lake Superior.

PROF. R. PUMPELLY, Newport, R. I.
A series of the Ores (powdered) reported upon by him for the United States Census Department.

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56 specimens of Miscellaneous Minerals mostly from Magnet Cove, Ark.

H. STOCKBRIDGE, Jr., Baltimore, Md.
3 specimens of Enstatite from Bare Hills near Baltimore, Md.

J. W. DEEMS, Brooklyn, N. Y.
20 Miscellaneous Minerals for Cabinet.

F. A. SAMPSON, Sedalia, Mo.
35 specimens of Cretaceous and Carboniferous Fossils, in exchange for Bulletins.

GEORGE CASWELL, Dayton, Ohio.
80 specimens of Clinton Group and Lower Silurian Fossils from Dayton, Ohio, in exchange for Bulletins.

DANIEL CLARK, Mass.
12 specimens of Garnets and Gibsites from Richmond, Mass.

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Preliminary Report on the Natural History of Vermont.—Young.
Second Annual Report. Geology of the Public Lands, Maine and Massachusetts.—Jackson.
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Van Beneden & Gervais' Osteographie de Cetaces.

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Owens, Wm. W.
Paddock, Eugene H.
Park, Joseph
Parmly, Eleazar
Parmly, Geo. Du Bois, M.D.
Parsons, John E.
Patterson, Edward
Patterson, Thomas C.
Peabody, Arthur J.
Pell, John H.
Penfold, Edmund
Perkins, C. L.
Peters, George A., M.D.
Phelps, Royal
Phelps, William Walter
Phœnix, Phillips
Pierrepont, Edwards
Pinkus, F. S.
Platt, John R.
Platt, Samuel R.
Post, Alfred C., M.D.
Potter, Howard
Potter, Rev. H. C., D.D.
Powers, William P.
Preston, William I.
Prime, Frederick
Prime, Rev. S. Irenæus
Purdy, Wm. Macneven
Purssell, James
Ramsay, C. G.
Ranger, Gustave
Raynolds, C. T.
Remsen, William
Riker, D. S.
Riker, John L.
Riker, Wm. J.
Robbins, George A.
Robertson, R. A.
Roelker, Bernard
Rogers, Henry H.
Rogers, John
Rolston, R. G.
Romaine, B. F.
Rothschild, Jacob
Russell, Henry E.
Rütten, August
Rutter, Thomas
Sabine, G. A., M.D.
Sage, Russell
Salisbury, Mrs. F. C.

Sampson, Henry
Sands, Andrew H.
Sands, Samuel S.
Satterlee, S. K.
Sayre, Lewis A., M.D.
Schafer, Samuel M.
Schafer, Simon
Scheitlin, Edward
Scholle, Jacob
Schuchardt, Frederick
Schuyler, George L.
Schuyler, Philip
Schwendler, Fred.
Scott, George S.
Scott, Mrs. James
Seligman, David J.
Shea, Hon. George
Sheafe, Mrs. J. F.
Shethar, Samuel
Shoemaker, Henry F.
Sinclair, John
Sistare, Geo. K.
Skidmore, William L.
Slawson, J. B.
Sloan, Hon. Samuel
Sloane, Thomas C.
Sloane, Wm. D.
Slocovich, G.
Smedberg, A.
Smith, Charles S.
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., M.D.
Stern, S. M.
Sterry, Geo. E.
Stetson, Geo. W.
Stewart, David
Stewart, Mrs. Lispenard
Stone, David M.
Storm, Thomas
Strahan, John H.
Streeter, Dr. R. M.
Strong, Chas. E.
Strong, George A.
Strong, W. L.
Sturgis, Appleton
Sutherland, John
Sutherland, John L.
Suydam, D. Lydig
Swan, William H.
Swann, James
Sykes, William
Tailor, Edward N.
Taintor, Charles M.
Talcott, James
Tappan, Hon. J. Nelson
Taylor, Aug. C.
Tefft, E. T.
Tefft, Wm. E.
Terbell, H. S.
Thompson, S. C.
Thompson, W. Prall
Thomson, James
Thorne, Samuel
Thorn, William K.
Thorp, Andrew S.
Thurber, H. K.
Tiemann, Peter C.
Tillinghast, W. H.
Tillotson, L. G.
Tobias, Samuel I.
Toucey, J. M.
Tousey, Sinclair
Townsend, R. W.
Tracy, Charles
Tracy, J. Evarts
Trevor, H. G.
Trevor, John B.
Trevor, Mrs. John B.
Tucker, John C.
Twombly, H. McK.
Ulmann, Joseph S.
Ulmann, S. B.
Valentine, Lawson
Vanderpoel, S. O., M.D.
Van Norden, Warner
Van Nostrand, David
Van Winkle, Miss E.
Vermilye, J. D.
Viele, Gen. Egbert L.
Von Post, Herman C.
Waite, Hon. C. B.
Wales, Hon. Salem H.
Wall, Michael W.
Wallach, Antony
Ward, Mrs. M. H.
Weatherbee, Mrs. E. H.
Webster, Sidney
Weekes, John A.
Weeks, Francis H.
Wenman, Hon. James F.
Wetherbee, Gardner
Wheelock, Geo. G., M.D.
Wheelock, Wm. A.
Wheelock, Dr. W. E.
White, Horace
Whiting, F. H. N.
Whitney, Alfred R.
Wickham, Hon. W. H.
Wiechers, W. A.
Willets, J. T.
Williamson, Hon. D. B.
Wilson, John
Wing, Chas. T.
Wing, John D.
Winston, F. S.
Winthrop, Robert
Woerishoffer, Chas. F.
Worsham, Mrs. D. B.
Young, Jas. H.
Young, Mason