

1869

CITY OF NEW YORK

1926

THE AMERICAN MUSEUM SCHOOL SERVICE

FIFTY-EIGHTH ANNUAL REPORT OF THE TRUSTEES
FOR THE YEAR 1926 - THE AMERICAN
MUSEUM OF NATURAL HISTORY

Issued May 1, 1927

SERIAL SCIENTIFIC PUBLICATIONS

BULLETIN of The American Museum:

Volumes I-LV, 1881-1926. Scientific records of explorations and collections of the Museum, in Geology, Palæontology, Mineralogy, Zoology, and, originally, Anthropology. Issued in exchange to 400 libraries and institutions of science and learning throughout the world. \$5.00-\$10.00 per volume.

ANTHROPOLOGICAL PAPERS of The American Museum:

Volumes I-XXVIII, 1906-1926. Discoveries, explorations and researches in Archæology, Anthropology and Ethnology among the extinct and living races of man. Issued to 400 institutions of learning throughout the world. 25c.-\$.50 a part.

AMERICAN MUSEUM NOVITATES:

Nos. 1-243, 1921-1926. Devoted to publication of preliminary announcements and descriptions of new forms in the fields of Zoology, Palæontology, Geology and Mineralogy. 15c. each.

MEMOIRS of The American Museum:

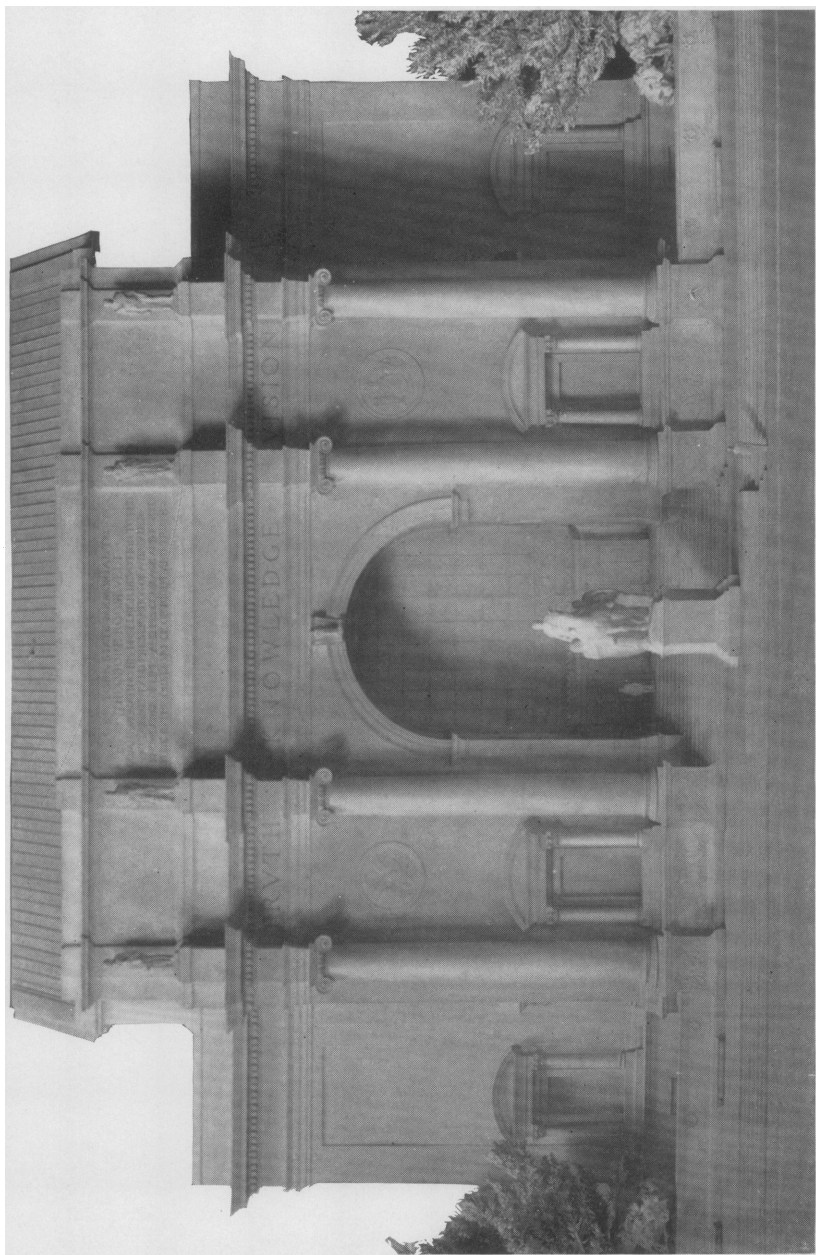
Volumes I, III, VI and IX, 1893-1909; contributions by Whitfield, Osborn, Beutenmuller, Matthew, Lumholtz, Emmons, Matthews, Brown, McGregor, Hussakof, Dean.

Volumes II, IV, V, VII, VIII and X-XIV constitute the Jesup North Pacific Expedition Series.

Volumes I-III of the New Series, 1912-1921, devoted to Zoology and Palæontology. \$2.00-\$12.00 a part. This terminates the serial form of publication. Beginning with the forthcoming work by Henry Fairfield Osborn: "Evolution of the Proboscidea," the Memoirs will be issued in single volumes.

NATURAL HISTORY, Journal of The American Museum:

Volumes I-XXVI, 1900-1926. An illustrated bimonthly magazine devoted to records of scientific research, exploration and discovery, of the development of museum exhibitions and of museum influence on education. Contributors include the scientific staff, explorers and Members of the American Museum and other eminent naturalists. Issued free to all classes of membership or on subscription, \$3.00.



FACADE OF THE NEW YORK STATE ROOSEVELT MEMORIAL
SEVENTY-NINTH STREET AND CENTRAL PARK WEST
After Plans by John Russell Pope, Architect

THE AMERICAN MUSEUM SCHOOL SERVICE



"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."

FIFTY-EIGHTH ANNUAL REPORT OF THE TRUSTEES FOR THE YEAR 1926 • THE AMERICAN MUSEUM OF NATURAL HISTORY

**THE CITY OF NEW YORK
Issued May 1, 1927**



THE AMERICAN MUSEUM PRESS

Established in the year 1903 as a one-man, one-handlever press. The original purpose of the press was the printing of Museum labels.

In 1905, an electrically driven job press. In 1918, monotype and first cylinder press installed, besides three job presses. In 1925, press included a foreman and 12 assistants; 3 job presses in use; 2 cylinder presses, one of these equipped with automatic feeder and pile delivery. In 1926, an automatic vertical job press was added.

In the year 1926, practically all of our scientific and administrative publications listed on the cover are printed in the American Museum Press, including *Natural History*.

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THE AMERICAN MUSEUM OF NATURAL HISTORY

INCORPORATED BY THE
LEGISLATURE OF THE STATE OF NEW YORK IN 1869

The Corporation now consists of a self-perpetuating Board of thirty Trustees, elected for terms of five years. Also, *ex-officio*, The Mayor, The Comptroller, and the President of the Park Board of the City of New York.

FOUNDERS AND INCORPORATORS OF 1869

JOHN DAVID WOLFE	BENJAMIN B. SHERMAN	MORRIS K. JESUP
ROBERT COLGATE	WILLIAM A. HAINES	D. JACKSON STEWARD
BENJAMIN H. FIELD	THEODORE ROOSEVELT	J. PIERPONT MORGAN
ROBERT L. STUART	HOWARD POTTER	A. G. PHELPS DODGE
ADRIAN ISELIN	WILLIAM T. BLODGETT	CHARLES A. DANA
JOSEPH H. CHOATE	HENRY PARISH	

HISTORY

PRESIDENCY OF JOHN DAVID WOLFE, 1869-1872.

1869 Museum incorporated. Constitution adopted as drafted by Joseph H. Choate.

1870 First home secured, the Arsenal, Central Park.

PRESIDENCY OF ROBERT L. STUART, 1872-1881.

1874 Cornerstone of first section of building laid by President Ulysses S. Grant.

1878 Contract adopted between Trustees and Department of Parks, as drawn up by Andrew H. Green and Joseph H. Choate.

1880 Educational work with the schools inaugurated by Professor Albert S. Bickmore.

PRESIDENCY OF MORRIS K. JESUP, 1881-1908.

1893 Museum opened to the public on Sundays.

1887-1905 The City of New York appropriated \$4,218,820.95 for seven new building sections, II-VIII.

1907 Museum opened free to the public every day in the year.

1909-1917 Mr. and Mrs. Jesup bequeathed \$6,000,000 to the Museum.

PRESIDENCY OF HENRY FAIRFIELD OSBORN, 1908-

1908 Constitution amended making The Mayor, the Comptroller, and the President of the Department of Parks, *ex-officio* members of the Board of Trustees.

1921 Greater New York Charter amended, placing the Museum on the same basis as Public Schools with respect to Corporate Stock Appropriations, by Chapter 618 of the Laws of 1921.

1921-1925 The City of New York appropriated \$2,233,800 for new Sections, IX-XI, and Equipment and Alterations of Old Sections.

1924 The State of New York provided for the Theodore Roosevelt Memorial (Educational). Cost \$2,500,000 (Chapter 615, Laws of 1924).

PERMANENT ENDOWMENT

The Endowment Fund was established in 1884. It now amounts to \$11,731,048.82 (book value). The Trustees especially desire to insure the permanent growth and welfare of the Museum through an increase of the General Endowment Fund. The additional sum of \$8,300,000 is needed at present.

FORM OF BEQUEST

I do hereby give and bequeath to "THE AMERICAN MUSEUM OF NATURAL HISTORY" of the City of New York

.....

.....

GIFTS AND BEQUESTS EXEMPT FROM TAXATION

Gifts, to the extent of fifteen per cent. of net income of the donor, and Bequests of any extent to The American Museum of Natural History are exempt from federal taxation, under the Federal Revenue Act of 1924.

MEMBERSHIP, CONTRIBUTORY AND HONORARY

The Classes of Contributory Membership are:

ASSOCIATE MEMBERS (non-resident)* (annually).....	\$3	FELLOWS	\$500
ANNUAL MEMBERS (annually)	10	PATRONS	1,000
SUSTAINING MEMBERS (annually)	25	ASSOCIATE BENEFACITOR CLASS	10,000
LIFE MEMBERS	200	ASSOCIATE FOUNDER CLASS..	25,000
		BENEFACITOR CLASS	50,000
		ENDOWMENT CLASS	100,000

MEMBERS are entitled to the following privileges:

An Annual Pass admitting to the Members' Room. Complimentary tickets admitting to the Members' Room for distribution to friends. Services of an Instructor for guidance through the Museum, by application in the Members' Room. Two course tickets to Spring Lectures and to Autumn Lectures. Current numbers of all *Guids Leaflets* on request. Current copies of *Natural History*, the bimonthly magazine of exploration, adventure and scientific progress.

FOR FURTHER INFORMATION APPLY TO THE SECRETARY OF

THE AMERICAN MUSEUM OF NATURAL HISTORY

77th Street and Central Park West

*Residing fifty miles or more from New York City.

ENDOWMENT FOR GENERAL PURPOSES, 1884-1926

In Amounts of \$10,000 and Upwards to \$1,357,800

1886	Vanderbilt, William H.....	\$50,000.00
1890	Constable, James M.....	25,000.00
1890	Dodge, W. E. (No. 2).....	10,000.00
1890-1904	Jesup, Morris K.	225,000.00
1890-1910	Mills, D. O.....	125,000.00
1890-1901	Ottendorfer, Oswald	30,000.00
1890-1895	Pyne, Percy R. (No. 1).....	45,000.00
1890	Stuart, Mary (Mrs. R. L.).....	50,000.00
1890	Vanderbilt, C.	25,000.00
1891	Auchincloss, Hugh	10,223.56
1899-1910	Trevor, Emily N. (Mrs. John B.).....	30,098.90
1900	Fiske, Martha T. (Mrs. Josiah M.).....	10,000.00
1904	Havemeyer, H. O.	25,000.00
1904	Rockefeller, William	10,000.00
1907	Davis, Benjamin P.....	22,799.25
1909	Sands, William R.....	10,000.00
1911	Tilford, Charles E.....	25,070.37
1913	Iden, Henry	10,000.00
1916	Bondy, Emil C.	10,000.00
1917	Kitching, Frank W.....	10,043.00
1919	Douglas, James	100,000.00
1920	Bridgham, Fanny (Mrs. Samuel W.).....	15,000.00
1920	Juilliard, A. D.	100,000.00
1920	Juilliard, Helen C. (Mrs. A. D.).....	50,000.00
1920-1926	Sage, Margaret Olivia (Mrs. Russell).....	1,357,805.09
1921	Combe, Louisa (Mrs. William).....	42,172.33
1921-1926	Rhineland, Charles E.	10,478.33
1922	Baker, George F.	250,000.00
1922	Eno, Amos F.	246,033.33
1922-1923	Harkness, Edward S.	100,000.00
1922	Iselin, Adrian	10,000.00
1922	Rockefeller, John D., Jr.....	1,025,000.00
1923	James, Arthur Curtiss	26,750.00
1923	Pratt, George D.	50,000.00
1923	Warburg, Felix M.....	19,000.00
1924-1925	Sloane, William	50,000.00
1925	Huntington, Arabella D. (Mrs. C. P.).....	50,000.00
1925	Watson, Emily A.....	10,010.52
1926	Fosdick, Wood	510,209.00

Carried forward **\$4,780,693.68**

Endowment for General Purposes, 1884-1926 (Continued)

	Brought forward	\$4,780,693.68
1884-1926	52 contributors less than \$10,000	115,780.57
1890-1926	Patronship Fees	28,000.00
1890-1926	Fellowship Fees	9,000.00
1912-1926	Life Membership Fees	81,100.00
		<hr/>
		\$5,014,574.25

ENDOWMENT FOR SPECIAL PURPOSES, 1890-1926

In Amounts of \$5,000 and Upwards to \$6,000,000

1890-1917	Jesup, Morris K. and Maria DeWitt: <i>Morris K. Jesup Fund</i>	\$6,000,000.00
1890-1923	Morgan, J. Pierpont and J. P.: <i>J. P. Morgan Fund</i>	452,187.50
1904	Bruce, Matilda W.: <i>Matilda W. Bruce Fund</i>	10,000.00
1910	Thorne, Phebe Anna: <i>Jonathan Thorne Memorial Fund</i>	25,000.00
1916	Sage, Margaret Olivia: <i>Margaret Olivia Sage Fund</i>	10,000.00
1918	Hard, Anson W.: <i>Anson W. Hard Library Fund</i>	5,000.00
1919	Baugh, Margaret L.: <i>Physical Anthropology Fund</i>	10,000.00
1926	29 contributors: <i>Ralph Winfred Tower Memorial Fund</i>	15,517.00
		<hr/>
		\$11,542,278.75

CASH GIFTS EXCLUSIVE OF ENDOWMENT, 1869-1926

Gifts \$10,000 and Upward to \$326,200

1869-1896	Colgate, Robert	\$11,975.00
1869-1903	Constable, James M.....	38,208.37
1869-1899	Dodge, W. E. (No. 2)	25,002.01
1869-1899	Iselin, Adrian	21,550.00
1869-1908	Jesup, Morris K.	195,652.37
1869-1913	Morgan, J. Pierpont	326,271.75
1869-1891	Stuart, Robert L.	24,953.11
1872-1895	Pyne, Percy R. (No. 1)	17,840.00
1872-1906	Trevor, John B. (No. 1)	10,175.02
1874-1921	Lanier, Charles	28,500.00
1876-1916	Choate, Joseph H.	14,725.00
1877-1885	Wolfe, Catherine L.	15,586.80
1878-1899	Vanderbilt, Cornelius	29,300.00
1880-1903	Millis, Darius O.	17,700.00
1883-1890	Stuart, Mary (Mrs. R. L.)	20,399.93
1887-1901	Ottendorfer, Oswald	11,000.00
1890-1899	James, D. Willis	20,000.00
1891-1926	Osborn, Henry Fairfield	66,795.06
1892-1903	Whitney, Wm. C.	27,200.00
1896-1918	Hard, Anson W.	10,500.00
1896-1906	Hyde, B. T. B., and F. E., Jr.....	18,254.64
1896-1899	Loubat, Joseph F.	13,347.20
1897-1913	Rockefeller, William	28,000.00
1898-1918	Juilliard, A. D.	36,143.75
1898-1915	Schiff, Jacob H.	19,250.00
1899-1904	Havemeyer, H. O.	12,400.00
1901-1913	Bowdoin, Geo. S.....	28,350.00
1901-1926	Huntington, Archer M.....	92,758.94
1901-1926	James, Arthur Curtiss.....	89,400.00
1901-1926	Pyne, Percy R. (No. 2).....	48,343.79
1902-1912	Jesup, Maria DeWitt (Mrs. Morris K.).....	83,466.52
1904-1926	Dodge, Cleveland H.....	113,180.26
1907-1926	Morgan, J. P., Jr.	219,233.46
1908-1926	Iselin, Adrian, Jr.....	26,100.00
1908-1925	Trevor, John B. (No. 2).....	20,145.06
1910-1919	Douglas, James	110,500.00

Carried forward \$1,781,708.04

Cash Gifts Exclusive of Endowment, 1869-1926 (Continued)

	Brought forward	\$1,781,708.04
1910-1926	Mills, Ogden	108,699.65
1910-1926	Warburg, Felix M.	92,000.00
1911-1922	Cuyler, Thomas DeWitt	14,750.00
1911-1926	James, Walter B.	11,522.54
1913-1926	Brewster, Frederick F.	32,342.59
1913-1915	University of Illinois	10,000.00
1914-1926	Baker, George F.	141,100.00
1914-1918	Frick, H. C.	16,875.00
1915-1926	Dean, Bashford	13,800.97
1915-1924	Ford, James B.	12,451.00
1915-1926	Frick, Childs	111,693.83
1916-1924	Davison, Henry P.	20,500.00
1920-1926	Douglas, Walter	10,395.06
1920-1925	Frick, Adelaide (Mrs. H. C.)	22,000.00
1920-1926	Whitney, H. P.	130,000.00
1921-1926	American Asiatic Association and Asia	30,000.00
1921-1926	Baker, George F., Jr.	25,000.00
1921-1926	Rockefeller, John D., Jr.	55,000.00
1922-1926	Pomeroy, Daniel E.	29,849.78
1922-1926	Pratt, George D.	17,987.65
1924-1926	Field Museum of Natural History	15,000.00
1925-1926	Carnegie Corporation of New York	30,000.00
1925-1926	Sage, H. W.	20,000.00
1926-1926	Burden, Mr. and Mrs. James A.	10,000.00
1926-1926	Eastman, George	100,000.00
1926-1926	Williams, Harrison	10,000.00
	Total cash gifts, 1869-1926	\$2,983,176.11

GIFTS OF LIBRARIES AND COLLECTIONS, 1869-1927

These gifts of libraries and collections, which make up a very large part of the property of the American Museum, are now being summarized and will appear in summary form in the Fifty-ninth Annual Report.

CORRESPONDING FOREIGN MEMBERSHIP*

Through honorary election on recommendation of the Scientific Staff

(Limited to 25)

- | | |
|---|--|
| DR. J. G. ANDERSSON,
Statens Historiska Museum,
Stockholm, Sweden | DR. ARCHIBALD G. HUNTSMAN,
Professor of Biology, University
of Toronto, Ontario, Canada |
| DR. F. A. BATHER,
Deputy Keeper of Geology, British
Museum (Natural History), London, England | PROF. ALFRED LA CROIX,
Professor of Mineralogy,
Musée National d'Histoire Naturelle, Paris, France |
| DR. ROBERT BROOM,
Douglas, Union of South Africa | DR. ADOLPHO LUTZ,
Instituto Oswaldo Cruz, Rio de
Janeiro, Brazil |
| DR. LUCIUS C. BULKLEY,
Medical Missionary, Presbyterian
Board of Foreign Missions,
Trang, Siam | MISS BERTHA LUTZ,
Rio de Janeiro, Brazil |
| DR. L. CAPITAN,
Paris, France | HERMANO APOLINAR MARIA,
Instituto de La Salle, Bogotá,
Colombia |
| DR. CHARLES CHILTON,
Professor of Biology, Canterbury
College, Christchurch, New
Zealand | HERMANO NICEFORO MARIA,
Instituto de La Salle, Bogotá,
Colombia |
| DR. ROBERTO DABBENE,
Museo Nacional de Historia Natural,
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College, London, England |
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National Museum of Victoria,
Melbourne, Australia |
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Professor of Zoology, Imperial
University of Tokio, Japan |
| DR. VICTOR GOLDSCHMIDT,
Professor of Mineralogy, University
of Heidelberg, Germany | PROF. DR. FRIEDRICH VON HUENE,
Professor of Geology, University
of Tübingen, Germany |
| MR. F. H. HAINES,
Appleslade, Ringwood, Hampshire, England | DR. KARL WEINGAND,
Stuttgart, Württemberg, Germany |

*Elected February 5, 1923, for the period 1923-1928.

INSTITUTIONS WITH WHICH THE MUSEUM IS COOPERATING

The American Museum of Natural History was founded in 1869, to promote the theory and practice of free education.

FREE PUBLIC INSTITUTIONS OF NEW YORK

	FOUNDED
DEPARTMENT OF EDUCATION OF THE CITY OF NEW YORK.....	1842
HIGH SCHOOLS AND PUBLIC SCHOOLS	
NEW YORK TRAINING SCHOOL FOR TEACHERS.....	1904
MAXWELL TRAINING SCHOOL FOR TEACHERS.....	1885
HUNTER COLLEGE.....	1870
COLLEGE OF THE CITY OF NEW YORK.....	1847
BROOKLYN INSTITUTE OF ARTS AND SCIENCES.....	1823
CENTRAL MUSEUM.....	1854
CHILDREN'S MUSEUM.....	1899
BROOKLYN BOTANIC GARDEN.....	1910
NEW YORK PUBLIC LIBRARY.....	1854
METROPOLITAN MUSEUM OF ART.....	1870
STATEN ISLAND INSTITUTE OF ARTS AND SCIENCES.....	1881
NEW YORK BOTANICAL GARDEN, THE BRONX.....	1891
NEW YORK ZOOLOGICAL SOCIETY.....	1895
NEW YORK ZOOLOGICAL PARK, THE BRONX.....	1895
NEW YORK AQUARIUM, BATTERY PARK.....	1896

ENDOWED INSTITUTIONS OF NEW YORK

COLUMBIA UNIVERSITY.....	1754
NEW YORK HISTORICAL SOCIETY.....	1804
NEW YORK ACADEMY OF SCIENCES.....	1817
NEW YORK UNIVERSITY.....	1831
AMERICAN ETHNOLOGICAL SOCIETY.....	1842
AMERICAN GEOGRAPHICAL SOCIETY.....	1852
TORREY BOTANICAL CLUB.....	1867
NEW YORK MICROSCOPICAL SOCIETY.....	1877
LINNAEAN SOCIETY OF NEW YORK.....	1878
NEW YORK MINERALOGICAL CLUB.....	1886
NEW YORK ENTOMOLOGICAL SOCIETY.....	1892
AMERICAN SCENIC AND HISTORIC PRESERVATION SOCIETY.....	1895
CITY HISTORY CLUB OF NEW YORK.....	1896
HISPANIC SOCIETY OF AMERICA (ART AND ARCHÆOLOGICAL COLLECTIONS).....	1904
BOY SCOUTS OF AMERICA.....	1910
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MUSEUM OF THE AMERICAN INDIAN.....	1920

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THE AMERICAN MUSEUM SCHOOL SERVICE

FIFTY-EIGHTH ANNUAL REPORT OF
THE PRESIDENT OF THE AMERICAN
MUSEUM OF NATURAL HISTORY
FOR THE YEAR 1926

SCIENTIFIC AND ADMINISTRATIVE
STAFFS OF THE YEAR 1927

REPORTS OF THE PRESIDENT AND
OTHER OFFICERS

MEMBERSHIP, HONORARY AND
CONTRIBUTING

MUNICIPAL AND STATE—
CONTRACTS AND LAWS

To the Members of The American Museum of Natural History:

The first Annual Report of The American Museum of Natural History was a pamphlet of thirty pages, written by Joseph H. Choate, a Trustee and Founder of the Museum. Beginning in 1921, the Reports by President Henry Fairfield Osborn have become contributions to the Theory and Practice of *Museum Education, Development and Administration*, as indicated by the successive titles:

THE AMERICAN MUSEUM IDEAL, report of the year 1921, issued in 1922.

THE AMERICAN MUSEUM AND CITIZENSHIP, report of 1922, issued in 1923.

THE AMERICAN MUSEUM AND THE WORLD, report of 1923, issued in 1924.

THE AMERICAN MUSEUM AND EDUCATION, report of 1924, issued in 1925.

THE AMERICAN MUSEUM ENDOWMENT, report of 1925, issued in 1926.

THE AMERICAN MUSEUM SCHOOL SERVICE, report of 1926, issued in 1927.

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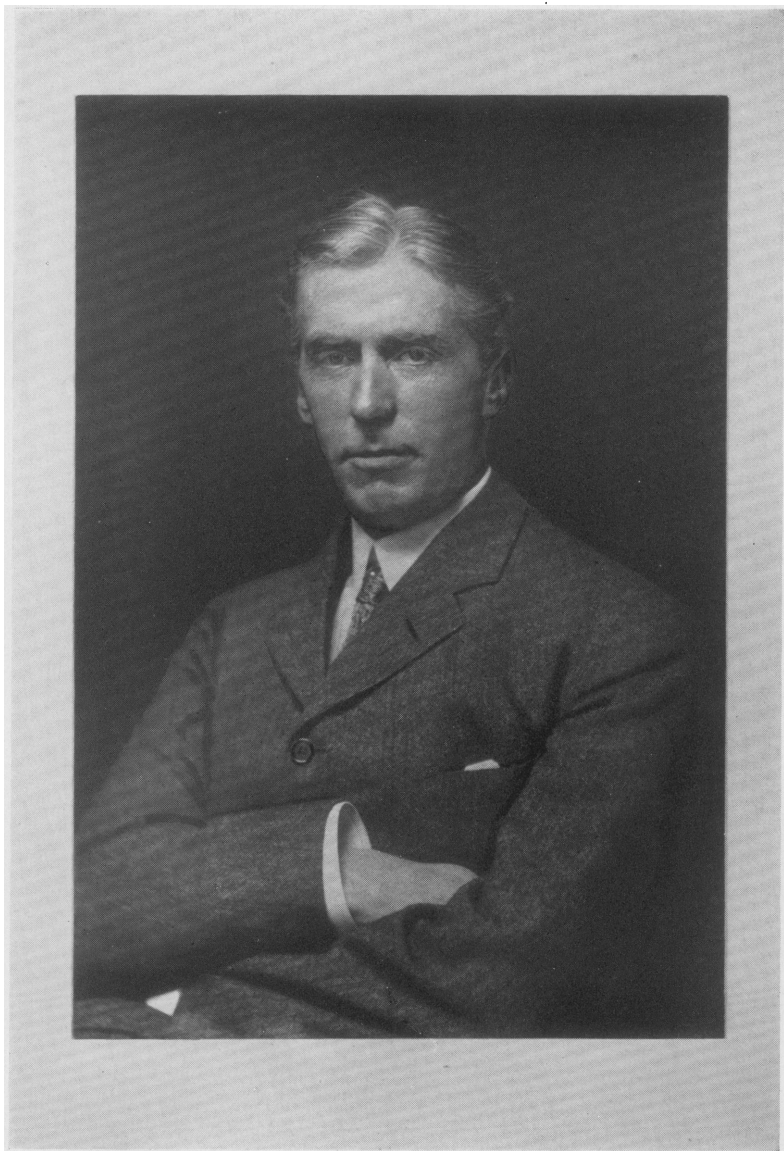
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(Public Education); WINSLOW (Public Health).



CLEVELAND HOADLEY DODGE
1860-1926

Trustee of the American Museum, 1904-1926; Vice-President, 1908-1924

THE AMERICAN MUSEUM SCHOOL SERVICE

PRESIDENT HENRY FAIRFIELD OSBORN

The Fifty-Eighth Annual Report is dedicated to the memory of Albert S. Bickmore, who originally planned the American Museum and founded its public educational school system; also to Jonathan Thorne, in whose memory the American Museum received the endowment fund for the education of the blind; also to James Douglas, who contributed \$100,000 to the endowment fund for education, as well as \$100,000 to the development of the educational system and exhibition halls. In the "Bickmore Memorial Entrance" of the New Education Hall of the School Service Building, these honored names are appropriately commemorated on suitable tablets.

THE year 1926 marked the completion of the School Service Building, erected by the people of the City of New York in grateful recognition of the perpetual service that the American Museum is rendering to the boys and girls of Greater New York and of the surrounding cities and towns of New York, New Jersey and Connecticut. When the extent of this service was made clear to the members of the Board of Estimate and Apportionment, they unanimously voted to construct and equip the School Service Building, and in the years 1922-1925 made appropriations totaling \$883,800 for it. The chief purpose of this beautiful building is to interpret and extend the knowledge of the work of all departments of this great museum to the youth of our schools. This is a kind of liaison between the American Museum and our colossal School System. The perfect arrangement and equipment, from the summit of the roof to the basement floor, was planned by Curator George H. Sherwood. The educational extension work done previously under very difficult conditions is now conducted with the utmost celerity and dispatch, as fully described below.

The second great event of the year 1926 was the inflow of nearly half a million dollars, or \$448,800, in voluntary contributions, gifts, expeditions and collections which extend the exhibitions of our present and future exhibition halls to practically every quarter of the globe and to every continent and every city. The crowding of the Museum by these new gifts,

added to others which have come in during the last decade, render absolutely essential the construction of the new African Hall, Section XIII, as set forth more fully below, under the AFRICAN HALL AND COLLECTIONS.

The third great event of the year 1926 was the prospective addition to our present and future Endowment by bequests of \$3,-085,674.63 including the munificent bequest of the late Mr. Wood Fosdick, of which \$514,415.00 has been received by the Treasurer, as fully described below. This is an encouraging step towards the total endowment of \$20,000,000 needed to operate the Museum on its present basis and without further expansion.

The fourth great event of the year 1926 was the full realization of the disastrous financial effects of the World War on the American Museum, as well as on all other educational institutions in America, and in fact throughout the world. The present conditions in our Museum were summarized by the President as follows in presenting the budget for 1927:

Since 1915, it has been necessary to raise salaries and wages to meet the increased cost of living conditions in and around the City of New York, the most expensive city in the world. In 1915, the average salary per capita of the entire American Museum force of 249 men and women was \$1,136. This has risen, during the eleven intervening years, to a per capita salary of \$2,108. The amount of per capita increase is, therefore, 86 per cent. In the meantime, the unprecedented gifts and collections from all parts of the world, the extension of exhibition space and the opening of new halls has necessitated an increase in the operating force from the original 249 in 1915 to 367 in 1926, raising the salary list to the sum of \$814,560, as against \$277,428 in 1915. The large increase in overhead operating costs is due to the increased prices in heating, lighting and the needed commodities such as uniforms, supplies of plaster and materials of that kind which have in some instances increased as much as 246 per cent. These facts show that, while there has been some expansion in the scientific operation of the Museum, the primary cause of the increased cost is the increased cost of living and of materials.

The enlarged salary list of \$814,560, together with the doubling and trebling of all operating costs, practically absorbs the entire income of the Museum from all sources, and rendered necessary in the year 1926, a deficiency of \$91,850, which was made up by personal contributions of the Trustees of the Museum.

Even with the utmost economy and efficiency in the purchasing department under Bursar Smyth, *the American Museum is now running at half speed*, whereas it should be running at full speed with the extremely able and talented force of men on the scientific and administrative staffs. Consequently the maintenance allowance by the City must be further increased. A new appeal to Members for additional preparation and exhibition funds must be made, but by far the most urgent and pressing matter is the increase of endowment, and to this the President, as Chairman of the New Endowment Committee, is bending all his energies.

CHIEF STATISTICS OF THE YEAR 1926

Total number of visitors to the American Museum.....	2,070,265
Total number of school children attending lectures and other school courses in the Museum.....	138,514
Total school service within the Museum and to boys and girls in the schools of Greater New York.....	5,859,529
Additions to membership during the year, bringing the total membership of the Museum on December 31, 1926, to.....	9,256
Total paid-up additions to the New Endowment Fund during the year from membership fees and bequests.....	\$573,504.63
Total increase of the cube of the building by the addition of the Asiatic, Oceanic and School Service sections.. (cu. ft.)	3,208,600
Total gifts to the Museum during the year, including subscriptions and donations of Trustees and Members for all purposes, exclusive of endowment and membership fees..	\$393,537.03

The above figures indicate that the Museum is growing far more rapidly than the income of its endowment fund and that the collections in the Museum are accumulating far more rapidly than our building cube is increasing. Consequently, the most pressing need of the Museum at the present moment is more endowment and more building space for the care and exhibition of collections already in the Museum.

ADDITIONAL ENDOWMENT OF \$5,757,172.05 NEEDED

Through recent gifts and bequests, the American Museum now has a prospective Endowment of \$14,242,827.95, *leaving \$5,757,172.05 as the amount necessary to increase our present Endowment Fund to \$20,000,000.* A most gratifying fact in the growth of the Endowment is that it has recently come from un-

expected sources and from unsolicited gifts and bequests which up to October 31, 1926, may be set forth as follows:

Bequests and Gifts Received Jan. 1 to Oct. 31, 1926:

Membership Fees, Life and Higher.....	\$7,600.00	
Estate of Charles E. Rhinelanders.....	478.33	
Estate of Emil Wolff.....	1,405.50	
Estate of Oliver J. Wells.....	500.00	
Estate of Albert J. Sauter.....	100.00	
Estate of J. Kennedy Tod.....	10,000.00	
Estate of Margaret Olivia Sage.....	18,488.80	
Subscriptions to Ralph Winfred Tower		
Memorial Fund.....	14,977.00	
Total.....		\$53,549.63

Bequests and Gifts in Process of Settlement:

Anna W. Harkness.....	\$1,000,000.00	
Wood Fosdick.....	1,150,000.00	
Solomon A. Fatman.....	1,000.00	
Henry Mayer.....	500.00	
Mrs. Harrington.....	500.00	
Frances Julia Cook.....	20,000.00	
Subscriptions to Ralph Winfred Tower		
Memorial Fund.....	7,625.00	
Total.....		2,179,625.00

Bequests Subject to Life Interests:

Louis V. Bell.....	\$385,000.00	
Charles M. Jesup Trust Fund.....	300,000.00	
Louisa Combe.....	100,000.00	
J. Kennedy Tod, balance.....	40,000.00	
Jeanette Robertson.....	2,500.00	
Ludwig Dreyfuss.....	10,000.00	
James Gaunt.....	15,000.00	
Total.....		852,500.00

Present Endowment Fund to Jan. 1, 1926..... 11,157,153.32

Present and Prospective Endowment to Dec. 1, 1926..... \$14,242,827.95

At the time of issuance of this report, the invested Endowment Fund, including receipts on account of the Wood Fosdick bequest of approximately \$1,000,000.00, amounts to \$12,115,572.17, yielding an annual income of \$574,329.34. The New Endowment Committee, including Messrs. Ogden Mills, Cleveland Earl Dodge, F. Trubee Davison, Childs Frick, and Henry Fairfield Osborn, Chairman, has written over a hundred letters

in relation to Endowment, including letters to all of the chief foundations, namely, the Carnegie Corporation of New York, the Carnegie Foundation for the Advancement of Teaching, the Rockefeller Foundation, the General Education Board, the Laura Spelman Rockefeller Memorial, the Altman Foundation, the Commonwealth Fund, the Russell Sage Foundation, and the John Simon Guggenheim Memorial Foundation.

The munificent bequest of Mr. Wood Fosdick ranks his name for all time among the leading benefactors of the Endowment Fund of the American Museum. Although Mr. Fosdick came from Cincinnati originally, he was for many years a resident of New York and had evidently been quietly observing the nationwide educational work of the American Museum and determined to give the greater part of his fortune to the promotion of this work. Our knowledge of Mr. Fosdick's life is as follows:

Mr. Fosdick was born in Cincinnati. He was the last surviving child of Samuel Fosdick, long a leader in manufacturing, finance and real estate. He attended Brooks's private school in Cincinnati and Harvard University at Cambridge.

On the outbreak of the Civil War, Mr. Fosdick joined the Guthrie Greys, afterward known as the Sixth Ohio Volunteer Infantry. He was transferred as a Lieutenant to a cavalry regiment and took part in the fighting in the West. After the war he became literary editor of The Cincinnati Times. He had retired at the age of 47 years from the literary editorship of The Cincinnati Times, and save for the time he spent in New York and Paris he traveled around the world. At the outbreak of the World War he made New York his permanent home. He died on April 6, 1926, in his eighty-seventh year, at the Waldorf-Astoria, leaving his entire residuary estate to the American Museum of Natural History.

The President is profoundly grateful to this most recent benefactor and pledges the Museum to the wisest and most effective use of his great bequest.

UNPARALLELED GIFTS OF THE YEAR 1926

The year 1926 opened in a most discouraging way with a budget showing that the entire resources from Endowment and City Maintenance Funds of the Museum must be devoted to salaries, wages and the costs of operation which have doubled or trebled since the year 1915. But before long our generous Members and friends in various parts of the United States began

to be heard from, and the result was that the year 1926 surpassed all previous years in the variety and extent of gifts and benefactions. No less than thirty-four expeditions have been financed through the unexampled generosity of friends in many parts of the United States. There have also been nine important gifts or outright additions to the collections, including subscriptions by twenty-four members of the Board of Trustees, amounting to \$152,555. The total voluntary contributions to the Museum from all sources this year reached the unprecedented total of \$522,000, or over one-half million. Among the field expeditions of the Museum are the following:

THE WHITNEY SOUTH SEA EXPEDITION.—Mr. Harry Payne Whitney for the seventh year provided funds for the continuation of ornithological work in the South Sea Islands, under the leadership of Mr. Rollo H. Beck and the direction of Curator Robert Cushman Murphy.

THE CENTRAL ASIATIC EXPEDITIONS, under the leadership of Dr. Roy Chapman Andrews, were supported by friends of the Museum throughout the United States, including a contribution of \$5,000 from the Field Museum of Chicago. The total cost of this expedition during the past year was \$50,000. Doctor Andrews has been lecturing in the United States and has recently received donations amounting to \$15,000 towards the continuation of the work during the remaining seasons of 1927, 1928 and 1929.

THE EASTMAN-POMEROY-AKELEY EXPEDITION.—Messrs. George Eastman, Daniel E. Pomeroy and the late Colonel D. B. Wentz made it possible for Mr. Carl E. Akeley to conduct a large party to Africa to secure specimens for new groups, including buffalo, giraffe and rare antelopes, for the proposed African Hall. The party was accompanied by artists, who secured material for the backgrounds of these groups.

THE RUWENZORI-KIVU EXPEDITION.—Messrs. Henry W. Sage and Childs Frick financed an expedition conducted by Dr. James P. Chapin, who was accompanied by Messrs. De Witt L. Sage and Frank P. Mathews, to collect birds of the subtropical zone in Kenya Colony and the Ruwenzori and Kivu Districts of Africa.

THE MORDEN-CLARK ASIATIC EXPEDITION.—Through the generosity of Mr. William J. Morden of Chicago, the Morden-Clark Expedition has successfully met and overcome many obstacles on their trip through Russian and Chinese Turkestan and have reported the collection of fine specimens of “*ovis poli*,” ibex and other Asiatic fauna.

THE TAYLOR SUDAN EXPEDITION.—Mr. Irving K. Taylor is financing and leading an expedition, organized late in 1926, and accompanied by Curator Harold E. Anthony of the Department of Mammals, to collect a series of mammals and birds from the White and Blue Nile regions of Africa. The party expects to be in the field for about six months.

THE BURDEN EAST INDIAN EXPEDITION.—Mr. Douglas Burden, one of the Trustees of the Museum, provided all the means for his expedition to the Island of Komodo, and was most successful in securing specimens of the reptile life of that island, as well as two live specimens of gigantic lizards which were recently exhibited at the New York Zoological Park.

THE AMERICAN MUSEUM GREENLAND EXPEDITION.—Financed by Mr. George Palmer Putnam and Mr. Harrison Williams. Mr. Putnam, assisted by the noted Danish explorer, Mr. Knud Rasmussen, and by Mr. Harry C. Raven of the Museum Staff, secured exceedingly desirable specimens of narwhal, shark, walrus and other sea life of the region, together with many valuable specimens of birds.

THE OGDEN MILLS ARCHÆOLOGICAL EXPEDITION.—The systematic archæological survey of the ruins of Canyon del Muerto, generously supported by Mr. Ogden Mills, has yielded exceptionally fine results for the year's work. These include rare pottery and textiles from del Muerto and from Canyon de Chelly.

THE CHILDS FRICK EXPEDITIONS.—Mr. Childs Frick continued his generous support of important excavations for fossils in the Miocene deposits of New Mexico, and, under the supervision of Mr. Albert Thomson, in Nebraska. Mr. Frick also made it possible for Curator Matthew to examine and study the famous Siwalik fossil beds in India, and, with the coöperation of other Trustees, to visit Java and make a preliminary reconnaissance

of the Trinil deposits where *Pithecanthropus erectus*, the most primitive man, was discovered.

THE BARRO COLORADO EXPEDITION.—Dr. Evan M. Evans made it possible for Dr. Frank M. Chapman to make field studies and collect specimens for a great habitat group showing the tropical bird life of Barro Colorado Island in the Canal Zone.

THE NORTHWESTERN BRAZIL EXPEDITION.—Mrs. E. M. B. Naumburg supported a field expedition to Brazil for the collection of birds.

THE MASON-SPINDEN EXPEDITION.—Mr. Ludlow Griscom visited Yucatan with the Mason-Spinden Expedition to make a study of the bird life of that locality.

THE MARTIN JOHNSON AFRICAN EXPEDITION.—Mr. and Mrs. Martin Johnson have continued making photographic records of African wild life from Paradise Lake and vicinity, through the continued generosity of the members of the Martin Johnson African Expedition Corporation.

THE PORTO RICAN EXPEDITION.—Under the auspices of the New York Academy of Sciences, Messrs. Harold E. Anthony, George G. Goodwin and Gilbert Ottley made studies and collections of the fauna and flora of Porto Rico and the Virgin Islands. The expedition was financed by the New York Academy of Sciences and by Mrs. James H. Ottley.

THE MRS. WILLIAM BOYCE THOMPSON EXPEDITION.—Through the aid of Mrs. William Boyce Thompson, Mr. Erich Schmidt of the Department of Anthropology continued archæological studies in Arizona.

THE LADEW PERUVIAN EXPEDITION.—Mr. Harvey S. Ladew provided the means for continuing the work of Mr. George H. H. Tate, an assistant in the Department of Mammals, to collect specimens in Peru, Argentina and Bolivia.

THE ROCKEFELLER HUDSON BAY EXPEDITION.—Mr. William A. Rockefeller supported and led an ornithological expedition to Hudson Bay.

THE FIFTH BERNHEIMER EXPEDITION.—Mr. Charles L. Bernheimer maintained an expedition in the Cliff Dwellers regions of Arizona and New Mexico.

THE KEITH SPALDING EXPEDITION.—Dr. Keith Spalding of Pasadena, California, made possible the collection of some fine specimens of big-game fishes for the new Hall of Fishes and was ably assisted by Mr. Walter Escherich of the Department of Preparation.

THE METCALF MEDITERRANEAN EXPEDITION.—Dr. Robert Cushman Murphy represented the Museum at the International Ornithological Congress at Copenhagen in the summer, and also, through the courtesy of Mr. and Mrs. Jesse Metcalf, made a collection of birds and fishes while on a cruise in the Mediterranean.

THE PHIPPS BAHAMAN EXPEDITION.—Mr. John S. Phipps provided for an expedition to the Bahamas, obtaining for the Museum a large collection of rare fishes from that locality, including very much needed material to complete the projected coral reef group which is to be installed in the new Hall of Ocean Life. This expedition was directed, at Mr. Phipps' request, by Dr. Roy W. Miner.

THE FAUNTHORPE-VERNAY EXPEDITION.—Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe, who have done so much to secure specimens of the vanishing mammals of India for the Museum, have continued their work for the fifth year in that country and in the East Indies.

In addition to the above, several expeditions were conducted as follows:

Mr. Clarence L. Hay, a Trustee of the American Museum, has supported the continuation of work in Mexican archæology, through field work and the presentation of various collections of specimens.

Dr. Frank E. Lutz continued work at the Field Station for the Study of Insects at Interstate Park, with the coöperation of the Harriman Estate.

Dr. W. G. Van Name made a study of the marine life of the Pearl Islands, through the generosity of Mrs. Samuel D. Sturgis.

Several expeditions were financed through the Jesup Fund, as follows:

Mr. Harry Watkins continued collecting birds in Peru.

Messrs. Olalla and sons have been forwarding bird collections from the upper reaches of the Amazon from Ecuador to Iquitos, Peru.

Mr. John T. Nichols spent several weeks during the summer in a study of the marine life of Bering Sea.

Dr. Chester A. Reeds continued his study of the varve clays of the Hackensack Valley.

Dr. G. Kingsley Noble made an expedition to North Carolina for a collection of reptiles and amphibians.

In addition to the support given for the maintenance of field work, the Museum was the recipient of a large and exceedingly liberal series of gifts from its many friends. During the year, upwards of 900 new accessions have been added to the Museum's collections. Chief among the noteworthy gifts is that of Mr. Felix M. Warburg, who assumed the entire cost of the historic von Luschan Collection, consisting of several thousand crania, a large number of complete skeletons, and an unusually rich collection of comparative specimens, mostly lower primates. The human material covers all the important types of peoples in the world, including Tasmanians and a few other extinct types. Professor Felix von Luschan was an authority on anthropology, and his fine library on racial anatomy, which in its entirety came with the collection, forms a comprehensive collection which has doubled the Museum's facilities for such study.

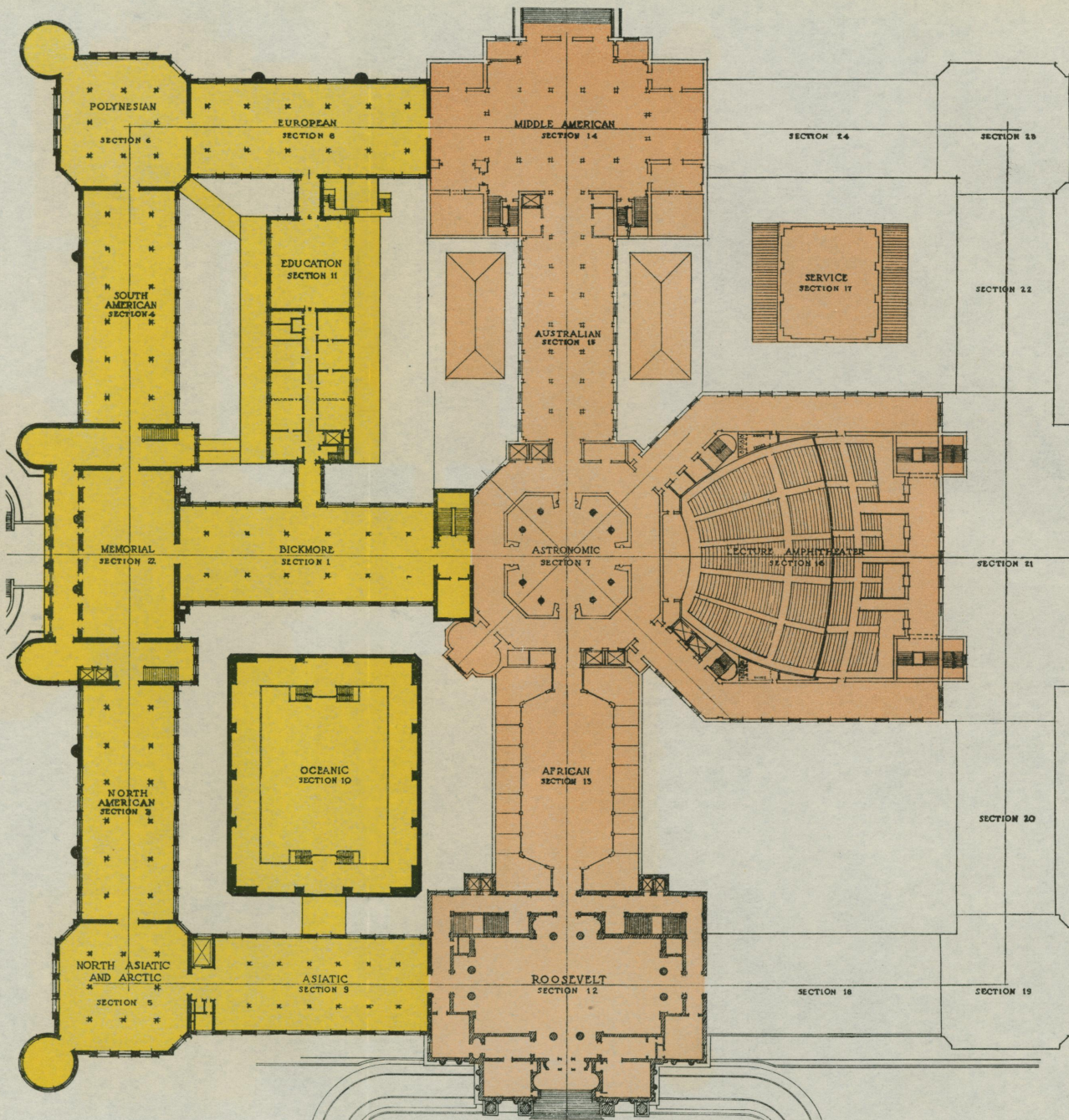
Mr. J. P. Morgan has again added to the gem collections of the Museum by the presentation of nine corundum gems known as "fancy sapphires." These are of unusual size and richness of color.

**The Most
Important
Gifts of
the Year**

COLUMBUS AVENUE

SEVENTY-SEVENTH STREET

EIGHTY-FIRST STREET



CENTRAL PARK WEST

THE AMERICAN MUSEUM OF NATURAL HISTORY
 SEVENTEEN BUILDING SECTIONS FOR WHICH PLANS HAVE BEEN PREPARED
 Yellow, sections completed; salmon, sections in preparation

Dr. George F. Kunz, Research Associate in Gems, has brought together and presented to the Museum a highly educational collection representing 63 of the 92 known chemical elements. Many of the missing elements will be added as soon as the material can be acquired. Some, up to this time, have never been isolated, and one (fluorite) is nearly impossible to display.

**Chemical
Elements**

Mrs. William H. Bliss of this city presented a series of beautiful undersea coral paintings, the work of Mr. Zarh H. Pritchard in the coral lagoons of the Society Islands. The preliminary sketches were made under sea with oil colors on water-proofed canvas. The finished paintings are delicately executed on sheepskin, and give remarkable views of ancient coral reefs crowned and fringed with living corals.

Messrs. K. V. Painter and James L. Clark presented 4,500 feet of motion picture film from Africa. Dr. Frank Overton presented a rare collection of 2,791 glass negatives of local batrachians. Messrs. Dunlevy and Jeremiah Milbank gave a collection of weapons of Philippine origin, mostly from Moro Islands, as a memorial to Dr. Charles W. Hack. From Mrs. Ludwig Stross there was received a collection of armor, fire-arms and spears from Persia, Abyssinia and the Pacific Islands, the collection of the late Ludwig Stross. Messrs. Adolph Zukor and J. L. Lasky presented a valuable ethnological collection and a canoe from Samoa. The Lewis B. Woodruff bequest of a collection of 1,840 birds and of 25,800 insects of all orders has proven a valuable one.

**FUTURE COMPLETION OF SEVENTEEN SECTIONS OF
THE MAIN NATURAL HISTORY BUILDING**

To keep pace with the phenomenal growth of the City of New York and the phenomenal increase in visitors and in school service, it is necessary to take immediate steps to extend the Museum and to complete the main portions devoted to Natural History. Between the foundation year, 1869, and the present

year, 1926, eleven museum sections have been erected at a total cost of \$8,200,599.68 for building and equipment, namely:

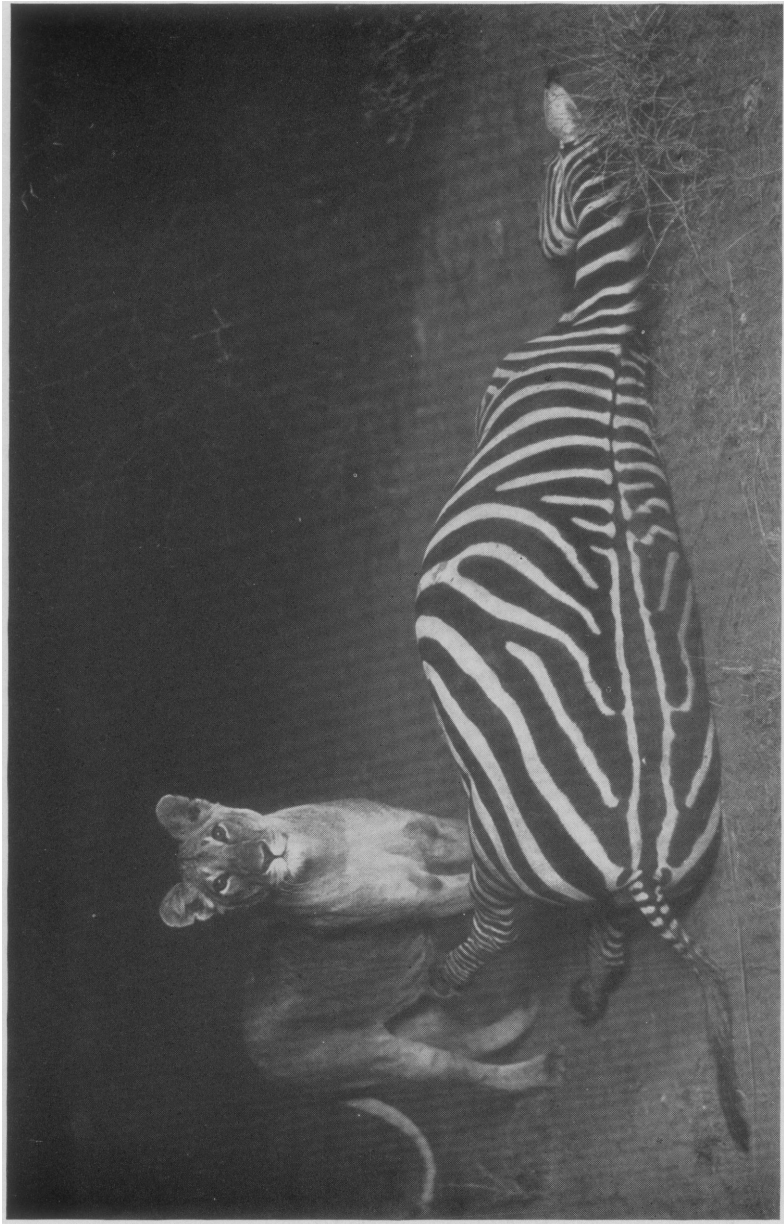
	Approximate cost.
Section 1, BICKMORE, 1874-1877	\$700,000.00
Section 2, MEMORIAL, 1890-1891	800,000.00
Section 3, NORTH AMERICAN, 1894-1895.....	600,000.00
Section 4, SOUTH AMERICAN, 1895-1897.....	511,775.00
Section 5, NORTH ASIATIC, 1897-1899	529,002.50
Section 6, POLYNESIAN, 1897-1899	417,632.50
Section 7, AUDITORIUM, 1899-1900	108,900.00
Section 8, EUROPEAN, 1906-1908	511,090.63
Section 9, ASIATIC, 1922-1924	} 1,500,000.00
Section 10, OCEANIC, 1922-1924	
Section 11, EDUCATION, 1924-1926	691,800.00
	<hr/> \$6,370,200.63
Supplementary Equipment for Sections 1-11, 1900-1926..	1,830,399.05
	<hr/>
Total cost from City Appropriations.....	\$8,200,599.68
Section 12, ROOSEVELT MEMORIAL, State of New York, 1926 (Estimated)	3,000,000.00
	<hr/> \$11,200,599.68

Section 12, Roosevelt Memorial, now in the course of construction by the State of New York, is now estimated at \$3,000,000.

It is a monument to the generosity of the citizens of New York that the total municipal building expenditure up to December 31, 1926, namely, \$8,200,599.68, is only \$3,500,000.00 less than the total Endowment Fund given to the Museum during the same period by citizens, namely, \$11,731,048.82:

Total municipal expenditure in building and equipment to Dec. 31, 1926.....	\$8,200,599.68
Total Permanent Endowment Fund, Dec. 31, 1926.....	11,731,048.82

This has an important bearing on the future, as the Museum building is enlarged and scientific expenditures correspondingly increase. The Trustees are now endeavoring to raise additional endowment, so that the total amount will be \$20,000,000.00 for the year 1927. For 1926, the annual income from an \$11,731,048.82 endowment was \$560,000. At the same interest yield, the income from a \$20,000,000 endowment will be \$981,000.



DEPARTMENT OF MAMMALOGY

AFRICAN LION

Flashlight photograph by Martin Johnson

One of the records of African wild life provided for by the Martin Johnson African Expedition Corporation

The six sections, 7 and 13-17, awaiting construction by the City of New York, are the following:

Section 13, AFRICAN	\$1,093,108.00
Section 7, ASTRONOMIC (Replacing present Lecture Hall)	1,689,525.00
Section 15, AUSTRALIAN	1,006,549.00
Section 14, MIDDLE AMERICAN	2,306,592.00
Section 16, NEW LECTURE AMPHITHEATRE.....	2,994,529.00
Section 17, NEW POWER SERVICE COURT BUILDING.....	500,000.00
Estimated cost of construction, Sections 13, 7, 15, 14, 16, 17	\$9,590,303.00
Estimated cost of equipment and casing of Sections 13, 7, 15, 14, 16, 17.....	\$1,150,000.00
	<u>\$10,740,303.00</u>

THE AFRICAN HALL AND EASTMAN, POMEROY AND AKELEY COLLECTIONS

A real building emergency has been created by the great gifts of Asiatic and African collections which we have received in the last few years. The superb collection of South Asiatic mammals, presented by Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe, are now being mounted in the Asiatic Hall which has been turned into a huge atelier, full of skilful artists and preparators under the direction of Mr. James L. Clark. This atelier must be moved into the New African Section in order to open to the public the superb Asiatic mounted groups. Moreover, the large African mammals will require no less space for preparation and exhibition, and without exaggeration it may be said that the Asiatic Hall cannot be opened until the African Hall is constructed. Meanwhile, a temporary exhibition of the smaller Asiatic groups will be made in the west corridor of the third floor, adjoining the Audubon Collection.

It is impossible to adequately express our appreciation of the munificent gift of Messrs. George Eastman, Daniel E. Pomeroy and the late Colonel Daniel B. Wentz to the African Hall. The new material, which meets the very high standard set by the late Carl E. Akeley for the African Hall, chiefly includes the following:

Group No. 1—KLIPSPRINGER GROUP, including 4 Klipspringer, 6 Chandler's Reed Buck, 8 Baboons, 7 Hyrax, 9 small birds (not definitely identified).

Group No. 2—BUFFALO GROUP, including 6 Buffalo.

Group No. 3—GREATER KUDU GROUP, including 3 Greater Kudu. ♀

Group No. 4—LESSER KUDU GROUP, including 5 Lesser Kudu.

Group No. 5—WATER HOLE GROUP, including 3 Giraffe, 4 Grévy Zebra, 1 Grant's Zebra, 4 Grant's Gazelle, 1 Eland, 2 Dik Dik, 3 Oryx, 2 Sand Grouse.

Group No. 6—PLAINS GROUP, including 2 Oribi, 6 Wildebeest, 4 Coke's Hartbeest, 2 Topi, 5 Impala, 1 Warthog, 6 Thompson's Gazelle, 2 Robert's Gazelle.

Group No. 7—WILD DOG GROUP, including 9 Wild Dogs.

These seven groups will be added to the groups already completed by Mr. Akeley, namely, the Elephant Group, which is to be in the center of the hall, the White Rhinoceros Group, the Gorilla Group and the Lion Group. This will provide eleven of the thirty-eight groups required for the Main Floor II and Gallery III of the great African Hall. The gift of Messrs. Eastman, Pomeroy and Wentz includes preparation of the seven new groups, which will be begun at once in the Asiatic Hall atelier and pushed forward with the utmost energy.

To the building cost of the African Hall, which is estimated at \$1,093,108, must be added the equipment cost of cases and glazing estimated at present prices at approximately \$250,000. In the design of this building, the experience gained in the Asiatic Section IX will be of great advantage. Every foot of space on the floor to the peak of the attic roof will be utilized and *every foot of this space is actually needed at the present time*. Consequently the construction of the African Section is a matter of most pressing importance.

THE ASTRONOMIC HALL, SECTION VII

Nationwide, even worldwide, interest has been aroused by the plans of the Astronomic Hall, first published in the Fifty-Seventh Annual Report and made the subject of a special Astronomic Number of *Natural History*, edited by Dr. G. Clyde Fisher, Curator of Astronomic Exhibits. The total cost of this hall without equipment is \$1,689,525; with equipment it will doubtless reach \$2,000,000. This hall is being superbly planned by Mr. Howard Russell Butler, with the aid of one of the most eminent astronomers in America, Professor Henry Norris Russell, both of Princeton University. We believe that no more in-

spiring and ennobling gift can be made to the people of this country than the Astronomical Hall with its equipment and endowment, estimated altogether at \$2,500,000. We are endeavoring to find a benefactor of Education to whom this great project will appeal. We are confident that no present or future investment in the moral and intellectual life of America will be so productive of immediate and enduring results because there is no department of human thought and observation so inspiring as astronomy and astrophysics. We had hoped that the Carnegie Corporation would deem it wise to make this building a memorial to Andrew Carnegie, but after considering the matter for several years, another decision was reached by the Carnegie Corporation. Consequently, for the present at least, we must look forward to a personal gift or bequest.

THE VERNAY-FAUNTHORPE EXHIBITION OF SOUTH ASIATIC MAMMALS

During the past year, our preparation force, under the leadership of Assistant Director James L. Clark and Mr. Albert E. Butler, Acting Chief of the Department of Preparation, have been modeling and mounting the beautiful and majestic animals which the Museum owes to the generosity of Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe. Up to the present time, the following groups are mounted and ready for exhibition:

Banting, <i>Bibos sondaicus</i> (Mueller and Schlegel).....	2 adults.
Sloth Bear, <i>Melursus ursinus</i> (Shaw).....	2 adults, 1 young.
Black Buck, <i>Antelope cervicapra</i> (Linnaeus).....	2 adults, 2 yearlings.
Axis Deer, <i>Axis axis</i> (Erxleben).....	4 adults, 2 young.
Indian Sambar Deer, <i>Rusa unicolor</i> (Bechstein).....	2 adults, 1 young.
Swamp Deer, <i>Rucervus duvaucelii</i> (Cuvier).....	2 adults, 1 young.
Thamin Deer, <i>Rucervus eldi</i> (Guthrie).....	3 adults, 1 young.
Nilgai, <i>Boselaphus tragocamelus</i> (Pallas).....	2 adults, 1 young.
Sumatran Rhinoceros, <i>Dicerorhinus sumatrensis</i> (Cuvier).....	1 adult, 1 young.
Tiger, <i>Tigris tigris</i> (Linnaeus).....	2 adults, 2 young.
Indian Elephant, <i>Elephas maximus</i> (Linnaeus)...	2 adults.

The generous donors of this collection have engaged to complete it by the addition, not only of all the mammals not already secured, but of certain smaller mammals, also birds and reptiles,

as well as full information regarding the accessories for each group. Colonel Faunthorpe writes on December 3rd:

I am glad to be able to report that I have just completed the wild boar group with a very fine boar. You already have a sow and young one. The four horned antelope buck I hope to get, we have doe and fawn, got last winter. These small animals are much harder to get, when you want them, than the big ones. For instance, it took a lot of work to get a good Parah (hog deer) stag last winter.

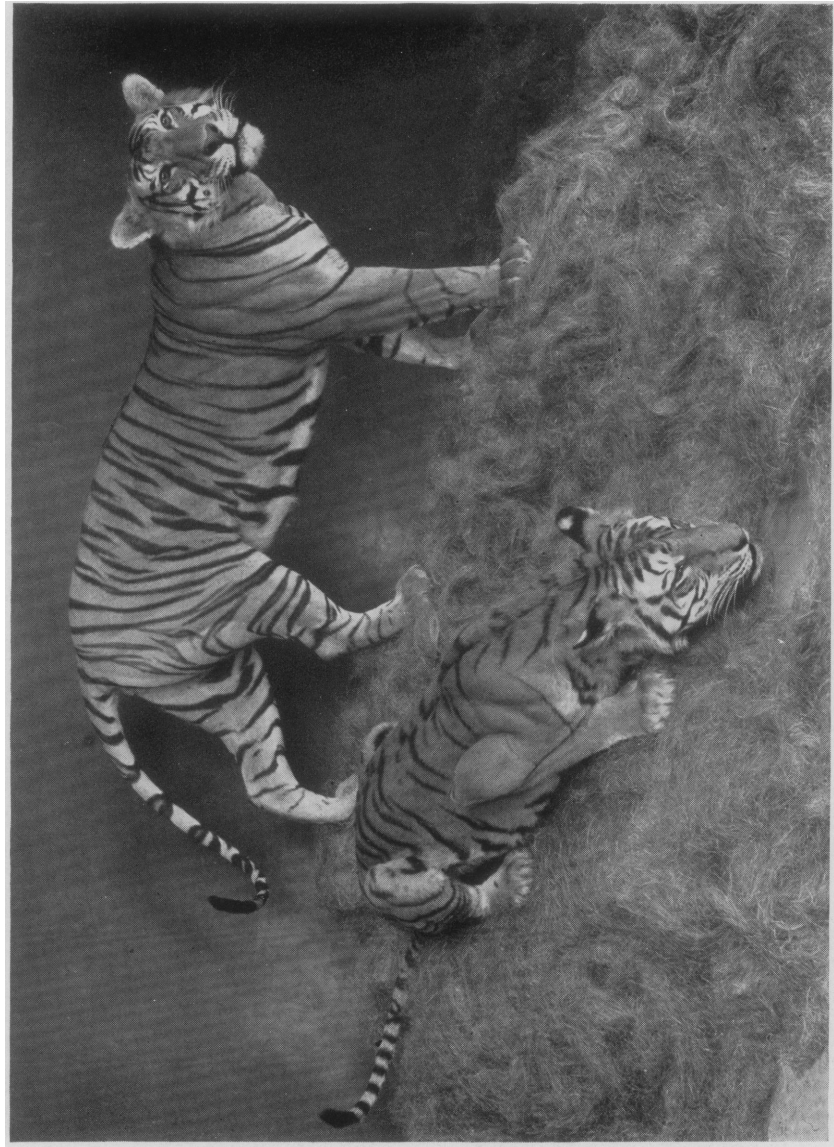
I have a special expedition planned for wild dogs in February. These brutes are *very* difficult to get shots at. I have an idea for a group of Red Dogs (vide Kipling) pulling down a Sambur or attacking a leopard which would be a great attraction, I think. The dogs chase and kill leopards I *know*. The jungle tribes say they also chase and kill tigers but there is no *authenticated* instance of this on record. I spent a week last winter hunting them without result.

Mr. Arthur Vernay is planning two new expeditions, one to Nepal and other parts of India for the accessories, and one for still remaining rarer mammals, especially the single-horned rhinoceros of Sonda. Temporarily, the smaller Asiatic Groups will be exhibited on the Third Floor in the West Corridor.

RAPIDLY EXPANDING SCHOOL SERVICE

The chief event of the year 1926 was the opening of the New School Service Building, erected at a total cost to the city of \$883,800. The full benefits of this finely conceived, planned and constructed building will be felt when to the endowment funds already received from Messrs. James Douglas and Jonathan Thorne may be added new endowment of \$1,500,000. The second step will be the construction of the Roosevelt Memorial for which special provision is made to extend our school service to all parts of New York State. Meanwhile, a review of the history of this Department, showing what has already been accomplished, is very timely:

In 1906 the educational work of the Museum, which was conceived and organized by Professor Albert Smith Bickmore, was placed under the direction of Mr. George H. Sherwood as Curator of the Department of Public Instruction. All the work connected with the public schools and the lecture system was placed under the direction of this department, as well as



DEPARTMENT OF MAMMALOGY
TIGER GROUP

Specimens collected by Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe

the general photographic work and the custody of all negatives, photographs, electros, and slides belonging to the Museum. Each year has seen a remarkable growth in the service which the Museum has been rendering the school system of the City. Not only has the original work been continued and expanded, but along with the changing trend of education, new activities have been introduced, increasing the various contacts between the Museum and the schools.

Following are comparative statistics showing the growth of the various branches of the work from 1906 to 1926.

One of the first activities was the lending of Nature Study collections to the schools. This was started in 1904, following the introduction of Nature Study as a subject in the public school curriculum, with the loan of ten small cabinets of birds. The collections now number 970 sets of specimens of birds, mammals, insects, lower invertebrates, woods, minerals and rocks, food sets and health charts, as well as many miscellaneous specimens.

	1906	1916	1926
No. of Public Schools Borrowing.....	300	439	443
No. of Pupils Studying Collections.....	800,000	1,118,322	765,790
No. of Collections in Use.....	435	704	970

The decrease in the number of pupils studying the collections in 1926 was caused by lack of sufficient messenger service to change the collections as frequently as was requested by the teachers.

This important branch of the work was started in 1904, with a course of twelve lectures. Under the direction of Dr. Clyde Fisher, who joined the staff in 1913, the scope of the lectures has been broadened. The subjects are chosen with special reference to the courses of study in history, geography, and nature, and are illustrated with colored lantern slides and motion pictures.

	1906	1916	1926
Total No. Lectures.....	24	114	204
Total Attendance.....	17,187	81,798	171,769

The lending of circulating collections to public libraries was begun in 1907. The interest aroused by these exhibits warranted the careful organization and development of the work in 1915. Through the coöperation of the Department Curators, material from many parts of the world has been made available for exhibition in the branch libraries. This not only stimulates the children's reading, but also leads the children and their parents to visit the Museum.

	1916	1926
No. of Libraries Borrowing	12	18
No. of Children Viewing Exhibits.....	31,829	32,592
No. of Loans.....	22	48

In 1910, the Jonathan Thorne Memorial Fund was established, providing a fixed income that enables the Museum to give special instruction to the classes of blind and sight conservation pupils in the New York City public schools. This fund also provides for the transportation of the children and their guides to and from the Museum. The talks are illustrated with Museum material, which is actually handled by every child, thus aiding him to form a correct concept of the world about him.

	1916	1926
No. of Schools Attending.....	9	35
No. of Talks Given.....	32	342
Total Attendance.....	393	4,891

The nucleus of the Museum's splendid lantern slide library was the set of colored slides prepared under the direction of Professor Bickmore. To these have been added many thousands of slides on natural history and other topics prepared from negatives secured by various Museum expeditions and other collections presented to the Museum or left on deposit. There are now about 80,000 slides in the entire library.

In 1915, the Museum offered to make available for the use of teachers of New York, this unparalleled material, and the present system of distributing slides was inaugurated. This phase of the Museum's school service has received direct finan-

cial support from the Board of Education from 1915 to 1926. This amounted to \$2,000 in 1915 and \$3,750 in 1926. This meets only part of the cost, which in 1926 amounted to \$23,000.

	1916	1926
No. Public Schools Borrowing	63	320
No. Loans of Slides to Public Schools.....	491	17,870
No. Slides Circulated in Public Schools.....	38,912	786,115

Docent service in the Museum halls has been given for many years to meet definite requests, many groups of public school children being guided each year in addition to members, but no definitely organized docent service has thus far been offered. With an increase in the Department staff, this will be possible, and also courses of exhibition hall talks.

	1916	1926
Pupils and Adults Guided.....	2,758	4,729
No. of Classes.....	77	187

Another important phase of the educational work was started in 1920, when the first course of lectures on science subjects was given by members of the scientific staff of the American Museum. These courses have been continued each year, and others have been given in the Maxwell Training School. Personal contacts with the future teachers were established in 1921, when the first reception to the graduating students of the Training Schools was held in the Museum to acquaint them with the aids which can be secured from the Museum for their school work. The results of this personal contact have been so excellent that these receptions have been continued each January and June.

Although the Museum is a pioneer in the use of educational motion pictures, their use in Museum lectures dating from 1911, the definite lending of motion pictures to the public schools was not started until 1922. There are three sources from which these films are obtained—by purchase, by gift, and from the Museum expeditions in many parts of the world. The Museum has been most fortunate in being presented with three sets of the Yale Chronicles

of America history films, two prints of "Nanook of the North," the Martin Johnson African films, the Akeley Gorilla films, the films on the Nile region by Mr. George D. Pratt, the Vernay-Faunthorpe India films, and many others.

	1922	1926
Total No. of Borrowers.....	12	91
No. of Reels Lent.....	76	2,057
No. of Showings.....	63	1,423
No. of Children Present.....	18,287	530,955

TENTH YEAR OF THE CENTRAL ASIATIC EXPEDITIONS

It is difficult to realize that the Central Asiatic Expeditions of the American Museum are in the tenth year of progress since the first collecting tour of Dr. Roy Chapman Andrews into China during the season of 1916-1917. The year 1926 was one of very great disappointment because the entire expeditionary force assembled in Peking to man the far journey into Western Mongolia, and with Chief Andrews spent month after month in doubt and anxiety and finally in despair because a strong hostile army extending across northeast China completely barred the entrance into Mongolia. Three successive attempts to penetrate this line failed. The season closed with the dispatch of Messrs. Granger and Nelson to the upper reaches of the Yangtse River and the Northwestern province of Yunnan in the hope of discovering new fossil fields. Meanwhile, the entire collections of the previous season of 1925 were worked up for study and exhibition purposes in the laboratories within the Peking headquarters. Dr. Andrews returned and in a very successful lecture and subscription tour secured a number of most welcome gifts toward the renewal of the expedition for two more seasons, as soon as political conditions permit. Meanwhile, in the American Museum a superb exhibition of the fossil collections is now open to the public on the Fourth Floor, and two publications have been prepared; the first, entitled "Central Asiatic Expeditions, Preliminary Reports, Vol. 1, 1918-1925"; also "Central Asiatic Expeditions, Geology of Mongolia," by Berkey and Morris, Vol. II, 1927 (In Press.) More than three-fourths of the great collection of fossil mammals and reptiles have been worked up and are now ready for research, description, and publication.

**DEVELOPMENT OF ANTHROPOLOGY IN THE
AMERICAN MUSEUM 1894-1926**

Previous to 1894, the anthropological work of the Museum was confined to the securing of collections from private owners, but during the year 1894, Professor F. W. Putnam was called to New York to reorganize the Department. This he did and developed a number of important projects, among which were the following: Duc de Loubat Expedition to Mexico, 1896-1903; Hyde Expedition to the Southwest, 1896-1903; Jesup North Pacific Expedition, 1897-1903; Henry Villard Expedition to Peru, 1892-1904; The East Asiatic Expedition, 1901-1904.

Professor Putnam retired from the Museum in 1903. In 1905, Curator Wissler took charge of the Department of Anthropology, and among the projects initiated were the following: A Survey of the Indian tribes in the Plains and Woodland Areas of North America, 1905-1914; the Archer M. Huntington Survey of the Southwest, 1909-1920; A Racial Survey of Polynesia, 1920-1922. The survey of Indian tribes in the United States resulted in reasonably complete data for the cultures of all the Plains tribes and the adjoining Woodland Area; also important collections were secured, making up the Plains and Eastern Woodlands Halls, as they stand at present. The work in Polynesia was interrupted by the illness and death of Dr. Louis R. Sullivan, but it has given us a large body of data on the Hawaiians and various races living in those Islands, together with papers upon other parts of Polynesia. The Archer M. Huntington Survey of the Southwest embraced archæological investigations as well as studies upon the living tribes. Important investigations were made among the Pueblo villages of New Mexico; the most important of all, however, were the archæological methods inaugurated by Mr. N. C. Nelson and carried through to their present state by Mr. Earl H. Morris. These results give in succession the numerous cultural horizons for the Southwestern Area. The work involved the development and perfection of a special archæological technique for which special credit should be given to Mr. Nelson. It is now desirable to extend our archæological explorations into Mexico

and Middle America in order to discover the successive cultural horizons and their relations to those of the Southwest.

The year 1926 finds the Department of Anthropology with several large undertakings completed. The most outstanding of these is the survey of Indian tribes in the Great Plains Area and the adjoining Woodlands, an anthropological survey of the Hawaiians, and the Huntington Survey of the Southwest. Each of these returned rich Museum collections and have yielded important scientific contributions. We are now facing new projects, among which the following are well formulated; Research in Southwestern United States; Archæological Research in Middle America; Development of the Races of Man Hall.

Research in Southwestern United States.—Good progress has been made by the Ogden Mills Survey. As originally projected, this survey was to cover three seasons, the last of which falls in 1927. This last season should see the end of exploration in and about Canyon del Muerto.

Archæological Research in Middle America.—The culture horizons of Middle America remain undetermined. These can be approached by a careful study of sample strata in selected regions. This is the method used in the Huntington Survey of the Southwest, which has given us a definite chronology for that area. It is now desired to extend this survey into Mexico and Middle America, where it is estimated that at least five years' exploration will be necessary to develop the respective culture horizons. The cost of this investigation per season will be \$2,500.

The Races of Man Hall.—We need additional field studies among the native races in Asia and South America to complete this exhibition series. Either of these fields presents virgin regions for exploration. To maintain one field man per season in one or the other of these areas will cost about \$2,500. It is hoped that financial support can be found for these three projects and, if possible, a pledge for their continuance for three or more years. With such support, we are sure that the staff of the Department will be able to make good, and that these new undertakings will prove in the end as profitable as those just completed.

GIFT TO THE UNITED STATES OF THE AZTEC RUINS

The culmination of the Archæological Survey in the Southwest, through the generosity of Mr. Archer M. Huntington, extending over a period of fourteen years (1909-1922), was the purchase of the excavated ruins and their presentation by the Museum, in the name of Mr. Archer M. Huntington, to the United States Government. These ruins were set aside as the Aztec Ruin National Monument, by proclamation of President Harding in 1923. The results of the Huntington Survey were of such scientific importance that it was considered desirable to acquire certain adjacent ruins for excavation, study and preservation. The purchase of these ruins was authorized by the Trustees in 1926, with the intention of presenting them to the United States Government for inclusion in the Aztec Ruin National Monument. It is not likely that the transfer of this property will be completed until the end of the current year. This acquisition puts in our hands new opportunities for exploration, following up the earlier work supported by Mr. Archer M. Huntington.

THE AMERICAN MUSEUM LIBRARY

The American Museum Library has recently been raised to the first rank by the generous gift of Mr. Ogden Mills of the entire Library of the New York Academy of Sciences, numbering some 20,000 volumes and including many very rare serial works. The action of the New York Academy of Sciences in incorporating this Library with that of the American Museum is another link in the long chain of friendly relations which have existed between the two institutions since the year 1903 when the Academy first made the Museum its headquarters.

The steady growth of the Library to its present total of over 115,000 volumes is due to several factors, the most important of which are the Museum's liberality in the matter of purchase, the high standard and large scope of our publications which are available in soliciting and maintaining exchange and the generosity of friends and patrons through whose gifts priceless

works and, in some cases, whole nuclear units have found their way to our shelves. To Messrs. Ogden Mills, Cleveland H. Dodge, Anson W. Hard, J. Pierpont Morgan, Henry Fairfield Osborn, S. P. Avery, Archibald Rogers, George L. Hyslop, William G. Dewitt, Frederick A. Constable and W. L. Hildburgh we owe a lasting debt of gratitude. The M. Schuyler Elliot Memorial Library, the Robert Halsted Library, the Jules Marcou Library, the Catherine Lorillard Wolfe Library and Mr. Ogden Mills' recent gift of the Library of The New York Academy of Sciences are stepping stones in the rapid strides of library progress and effectiveness.

The casual visitor only occasionally finds his way to the Library, but to the scientific worker or research student this treasure house is becoming more and more a Mecca. In it are found the works of nature lovers such as Walton, White, Burroughs and Muir, whose writings are a constant inspiration to the field worker and educator of today. Here are found also important scientific treatises including the classics, to which reference for data and comparison must continually be made. Invaluable are the files of publications recording the activities of institutions and results of research the world over from the pre-Linnæan period to the present time.

The department which may be said to hold the key to the work of all other departments is the Library, which term includes not only the main library but also the Osborn Library of Vertebrate Palæontology and the Osborn Biological Library, gifts of Professor Henry Fairfield Osborn. The most recent branch is the School Library to be maintained in the new School Service Building for the use of teachers and other educators; already important gifts to this library have been received from Professor Osborn and others. An older branch of the Library is that of the Bashford Dean Library of Ichthyology which includes all the rarer works on Fishes of the life-long collections both of Dr. John S. Newberry and of Dr. Bashford Dean. In recognition of this deposit, the Trustees have set aside a special room as the Bashford Dean Library and Research Room.

THE NORTH ASIATIC HALL

Supplementing the splendid materials secured in China and Mongolia by the Central Asiatic Expeditions, under Dr. Roy Chapman Andrews, are the superb specimens from Western Asia recently presented to the Museum by Mr. William J. Morden as a result of the Morden-Clark Expedition of the year 1926, which has recently returned to the American Museum after a most arduous and even dangerous journey through Northwestern India, the Russian Pamirs, Chinese Turkestan, Western Mongolia, Siberia, and Peking. This remarkably successful expedition will be fully reported in a forthcoming number of *Natural History*. Meanwhile, we acknowledge the receipt of materials for the following new groups:

OVIS POLI of the Russian Pamirs: Males, females and young, 27 specimens altogether. (The best male horns 57½ inches.)

IBEX of Tian Shan Mountains: Males, females and young, 18 specimens altogether. (Best male horns 52 inches.)

ROE DEER of the Tian Shan Mountains: Male, female and young, 13 specimens altogether.

GAZELLE of Chinese Turkestan: Male, female and young, 5 specimens altogether.

LITTLEDALE SHEEP of the Tian Shan Mountains: Complete male; 4 specimens altogether. (Horns of male 45 inches.)

MARMOTS: Complete mounts from the Pamirs, Tian Shan Mountains and Yuldaz Valley; 5 specimens altogether.

Supplementing this most welcome material are 4,000 still photographs and 18,000 feet of motion picture film.

Meanwhile, the North Asiatic Hall is being planned as a dark exhibition hall between the North American Hall of Mammals and the South Asiatic Hall, to include group mounts of all the large North Asiatic mammals around the walls with a central group of the famous Ovis Poli or Marco Polo's sheep.

THE THIRD GENERATION OF AMERICAN MUSEUM TRUSTEES

It is interesting to record the fact that the guidance of the American Museum is gradually passing into the third generation of American Museum Trustees. In the Memorial Hall, we are planning to place suitable tablets on which will be inscribed the famous names of the first generation. The recent loss of Cleveland Hoadley Dodge makes a severe gap in the ranks of the second generation. For our beloved colleague of many years, the following resolution has been adopted by the Board of Trustees:

It is with a deep sense of their personal loss that the Trustees record their sorrow at the passing of their beloved colleague

CLEVELAND HOADLEY DODGE

who died on June 24, 1926.

Mr. Dodge was elected to the Board on February 8, 1904; served as Second Vice-President for three years (1908-1910), and as First Vice-President for thirteen years (1911-1924); was a member of the Executive Committee for sixteen years (1908-1924), besides serving on several special committees.

From his entrance into the service of the Museum in 1904, until the last days of his life in the spring of 1926, he was an ardent and most generous supporter of all the great causes of the Museum which fell within his special field of interest and of taste—from the fossil fishes under Bashford Dean, to the Congo Expedition, to the African elephant group, to the Roosevelt South American Expedition, to the ill-fated Crocker Land Expedition, to the Central Asiatic Expeditions, to the Special Educational Fund, and finally to the Ralph Winfred Tower Memorial Fund. His contributions and gifts exceed \$108,000.

At meetings of the Trustees, he was at once the most conservative in matters of finance and of economy and the most progressive in matters of exploration and educational advance. He was the first to applaud a piece of meritorious work by a member of the scientific staff, the first to offer a resolution of appreciation of an administrative achievement. To the Trustees, the Staff and, in fact, to all the members of the American Museum of Natural History, the life of Cleveland H. Dodge is an inspiration. We find new courage, new enthusiasm, and new confidence in our great undertaking when we contemplate his courage, his enthusiasm, and his confidence.

At the Annual Meeting of the Trustees, held January 4, 1926, the following Trustees were elected: to the Class of 1926,

Douglas Burden; to the Class of 1927, William K. Vanderbilt; to the Class of 1928, Junius Spencer Morgan, Jr.; to the Class of 1929, A Hamilton Rice; to the Class of 1930, Percy R. Pyne, J. P. Morgan, Daniel E. Pomeroy, Walter B. James, George T. Bowdoin and Roswell Miller. Messrs. Pyne, J. P. Morgan, James and Miller were members of the Class of 1925, whose terms expired at the Annual Meeting of 1926. Mr. Pomeroy was elected to the vacancy due to the resignation of Mr. Trevor. Messrs. Burden, Vanderbilt, Junius Spencer Morgan, Rice and Bowdoin were elected to the new positions created by the amendment to Article II of the Constitution.

CHANGES IN STAFF

Death too has laid a heavy hand on our scientific staff, taking from our midst two of our most honored members. Dr. Ralph Winfred Tower, who had been Curator of Books and Publications for more than twenty-three years, passed away on January 26, after a brief illness from pneumonia. His sound training in science, his wide acquaintance with scientific literature, his exceptional ability as an executive, made him an ideal Curator for this important post, and it is mainly due to his genius that our library has been so wisely developed. Dr. Tower's services were not limited to his achievements in building up the Library. His sympathetic understanding of the conditions of our employees, his strong sense of justice, and his practical common sense in meeting difficult problems, made him a valuable member of the Pension Board, on which he had served since its establishment in 1913, while his helpfulness in the welfare work with the employees was of equal importance.

As a tribute to Dr. Tower's life and work, and with the desire to perpetuate his memory and influence, the Trustees decided to raise a special endowment fund, to be known as the Ralph Winfred Tower Memorial Fund, the income to be devoted to the purchase of books. A special committee, consisting of

MR. OGDEN MILLS

MR. FELIX M. WARBURG

MISS IDA R. HOOD

DOCTOR FRANK E. LUTZ

DOCTOR ROY W. MINER

MR. GEORGE N. PINDAR

DOCTOR CLARK WISSLER

MR. GEORGE H. SHERWOOD, *Chairman*

was appointed to raise this fund, which it is hoped will reach \$100,000. Already \$23,637 have been pledged, and the Committee is continuing its efforts to enlarge this fund.

The second member of our staff to be taken by death was Mr. Carl E. Akeley, who passed away on the slopes of Mount Mikeno in the Belgian Congo, on November 17, 1926. Because of Mr. Akeley's rare genius and his many contributions to the advancement of the art of mounting animals, his regrettable death leaves a real void in our staff. The Trustees endeavored to express their appreciation of Mr. Akeley's achievements in the following resolution, which was adopted at the Annual Meeting, January 3, 1927:

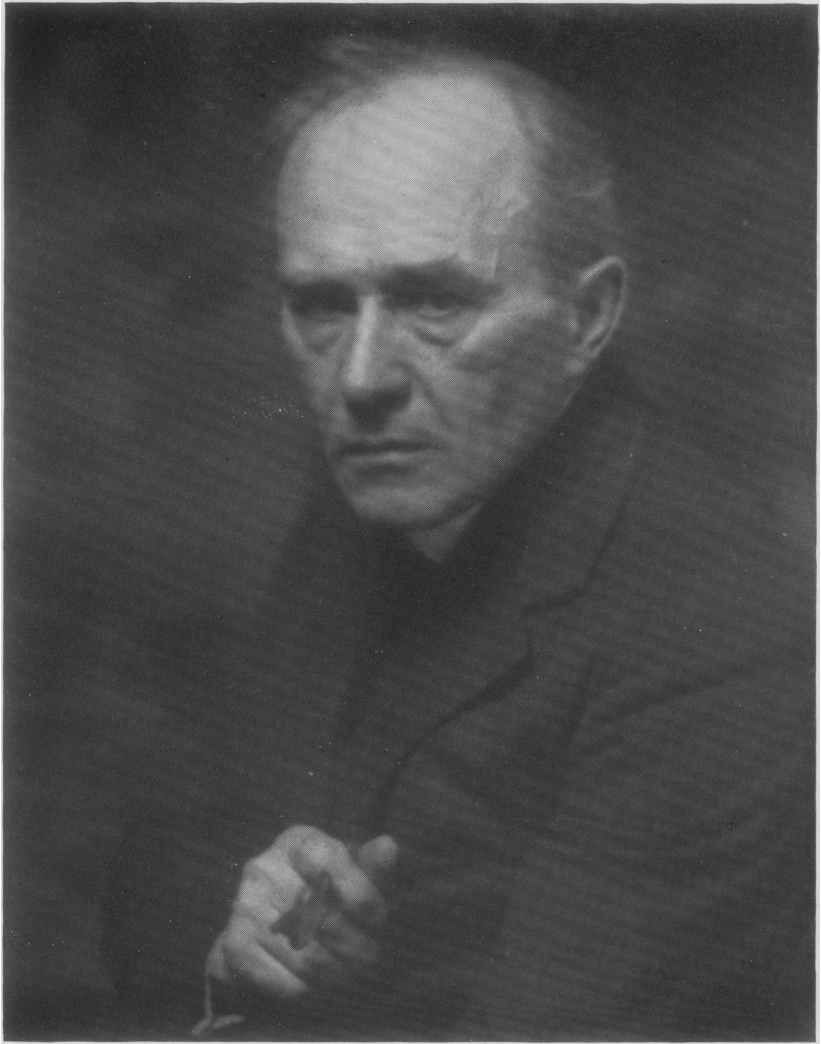
Resolved, That the Trustees record with profound regret the irreparable loss which the Museum and in fact the whole world has suffered through the death of Carl E. Akeley, who passed away on November 17, 1926, on the slopes of Mount Mikeno in the Belgian Congo. Mr. Akeley was a man of rare gifts and won deserved recognition as a nature lover, an explorer, inventor, sculptor, and man. His genius and untiring devotion to his ideals have raised taxidermy from a technical standing to a real art and stands as his greatest contribution to Museum development. The Trustees feel honored in having had his name associated with The American Museum of Natural History and are indebted to him for his vision and practical ideas in projecting the Great African Hall.

In recognition of his exceptional ability, his advancement of science and his service to the Museum, the Trustees direct that his name be enrolled as an *Honorary Fellow* of The American Museum of Natural History, the highest honor in their power to bestow.

During 1926 and at the Annual Meeting on January 3, 1927, the following appointments and promotions were made in the Administrative and Scientific Staffs: George H. Sherwood, A. M., was promoted from Acting Director and Executive Secretary to Director and Executive Secretary; Wayne M. Faunce, Sc. B., was promoted from Assistant Secretary to Assistant to the Director and Assistant Secretary; William Diller Matthew, Ph. D., was promoted from Curator-in-Chief of Mineralogy, Geology and Geography to Curator-in-Chief of Mineralogy, Geology, Geography and Astronomy; Barnum Brown, A. B., was promoted from Associate Curator of Fossil Reptiles to Curator of Fossil Reptiles; Walter Granger was promoted from Associate Curator of Fossil Mammals to Curator of Fossil Mammals; Robert Cushman Murphy, D. Sc., was promoted from Associate Curator of Marine Birds to Curator of Oceanic Birds;

Chester A. Reeds, Ph. D., was promoted from Associate Curator of Invertebrate Palæontology to Curator of Invertebrate Palæontology; Ida Richardson Hood, A. B., was promoted from Assistant Librarian to Acting Curator of Library and Publications; A. J. Mutchler was promoted from Assistant Curator of Coleoptera to Associate Curator of Coleoptera; Grace Fisher Ramsey was promoted from Assistant Curator in Education to Associate Curator; H. C. Raven was promoted from Assistant Curator of Comparative and Human Anatomy to Associate Curator of Comparative and Human Anatomy; William K. Gregory, Ph. D., was made an Associate in Physical Anthropology and Research Associate in Palæontology; Paul B. Mann, A. M., was appointed an Associate in Education; Charles C. Mook, Ph. D., was made an Associate in Palæontology; A. B. Dawson, Ph. D., was appointed a Research Associate in Herpetology; Frederic A. Lucas, Sc. D., was appointed Research Associate in Mammalogy; Lea McIlvaine Luquer was appointed Research Associate in Optical Mineralogy; Frank E. Lutz, Ph. D., was appointed Research Associate in Outdoor Education; Bertram G. Smith, Ph. D., was made a Research Associate in Herpetology; Hazel Gay was made Assistant Librarian; George G. Goodwin was made Assistant in Mammalogy; Janette May Lucas, B. S., was made Assistant Librarian—Osborn Library; Clifford H. Pope, B. A., was appointed Assistant in Herpetology (Central Asiatic Expeditions); Nancy True, A. B., was made an Assistant in Education.

These promotions and such increases in salary as could be granted in the present restricted condition of the finances of the Museum were in recognition of very able and devoted service.



CARL ETHAN AKELEY
1864-1926

Associated with the American Museum since 1909
Naturalist, taxidermist, sculptor, inventor, teacher, conservationist

II. EDUCATIONAL AND SCIENTIFIC REPORTS

GEORGE H. SHERWOOD, Acting Director

The general visitor often expresses his admiration for the perfection of a habitat group, or gazes in awed amazement at a mounted dinosaur. A teacher may be elated at the ease with which her pupils have grasped the meaning of land erosion or the sculpturing power of glaciers, after seeing the topographic models. Neither of them, however, probably realizes the patient and painstaking research of the scientists who have discovered and revealed the significance of these phenomena. No matter how beautiful an exhibit is or how appealing, its real value is based on the fundamental work of the scientists. The proper development of the Museum must rest upon the work of its scientific staff. This fact must not be lost sight of in an effort to make a museum popular. It is unfortunate but inevitable that in times of financial stress it is the research work that is curtailed. Circumstances have made it necessary to adopt this policy during the past three years. Again, as last year, the regular sources of income had to be reserved for the preparation and completion of exhibits for the new halls. Practically all field work supported from budget funds had to be suspended, and many a desirable purchase had to be passed by. In spite of this gloomy outlook at the beginning of the year, 1926 has been one of unusual activity in the field, because of the generous contributions by friends of the Museum. As the President is making special reference to these gifts, the Acting Director will not report on them here, except to express the gratitude of the members of our scientific staff for this generous support.

The most distressing feature of the budget retrenchment is the lack of provision for printing our scientific publications.

Publication The results of the Museum's expeditions are
Needs two-fold, namely, physical material for exhibition
 or study, and scientific data adding to our knowledge of the earth's history and its life. The great success of our numerous expeditions, especially during the past ten years, has

given us an embarrassment of riches in the scientific results, which must be published and distributed to secure the greatest benefit to science. Lack of funds for printing has prevented the publication of these papers as rapidly as they have been prepared. Consequently, at the present time the Museum is faced with this serious congestion of papers. These researches, by members of our scientific staff and other scientists associated with them, are printed principally in four Museum publications—the *Bulletin*, *Anthropological Papers*, *Novitates*, and *Memoirs*—issued by the Trustees. At the present moment, there are in the hands of the editors 10,000 pages of unpublished manuscripts. The seriousness of the condition will be realized when it is understood that, while the Museum has an effective and efficient printing department, its annual capacity is approximately 2,000 pages. Thus, if no more papers were received, it would take the department five years to print the manuscripts on hand.

We have on our staff leading men of science—men who receive inadequate salaries and who look to their reputation in publication as one of the great assets of their positions. In a number of instances, as in the case of the two volumes on the Congo Mollusks by Doctor Pilsbry, the manuscripts are written without any financial compensation. This delay in the appearance of their papers is a source of great discouragement to the members of our staff, who thus see their studies and discoveries come to naught.

The feeling of the staff members in this matter is expressed in the following minute, which the Acting Director received in the fall from the members of Division II:

The inability of the print shop to meet the demands now made upon it very greatly delays, if it does not actually prohibit, the appearance in type of scientific communications.

The members of the Faculty are thereby deprived of the privilege of making known the results of their labors and in consequence are discouraged from continuing them.

The Museum thus fails to realize fully on the scientific value of its expeditions and collections, and it cannot expect to receive ardent support from its scientific investigators when they realize that years may elapse before the outcome of their labors will see the light.

The members of Division II therefore earnestly appeal to the trustees of the Museum for relief from a situation which is robbing them of the opportunities their positions should afford them and a continuance of which will seriously affect the morale of the Division.

The members of the Division trust that the urgency of the situation will lead to a reorganization of our printing methods and the establishment of a system that will insure reasonably prompt publication of the results of their researches.

(Signed) FRANK M. CHAPMAN,

ROY WALDO MINER,

ROBERT CUSHMAN MURPHY,

FRANK E. LUTZ,

G. KINGSLEY NOBLE,

J. T. NICHOLS,

H. E. ANTHONY.

The most practical method of relieving the situation is to raise a special fund of \$100,000 for printing the excess manuscripts. Then the output of the Museum printing plant could be supplemented by printing these papers on contract with outside printers, and the Museum would be able to realize on its original expenditures on these researches. It is our hope that friends may be found who will contribute to such a special fund. It is not necessary to wait until the entire amount is subscribed. As fast as money is received, contracts can be placed and immediate relief be begun.

We speak with satisfaction of the progress of work in the Department of Preparation. Much has been accomplished, although a larger preparation force is needed. As
Preparation Mr. James L. Clark, Assistant Director in Charge of Preparation, was in the field the entire year, as a member of the Morden-Clark Expedition to Chinese Turkestan, the management of the department has fallen on the shoulders of Mr. Albert E. Butler, who has discharged the duties of this office with efficiency.

Although the energies of the department were directed primarily toward the preparation of groups and exhibits which would hasten the opening of the new exhibition halls, a large amount of general preparation work for all the departments of the Museum has been carried on.

Among the more important exhibits completed are: the remodeling and reinstallation of the African Pygmy Group for the Primates Hall; the completion of the Sea Lion, Sea Elephant

and Fur Seal Groups for the Hall of Ocean Life. The skeletons of the Right, Sperm, Gray and Finback Whales were cleaned and mounted in the Hall of Ocean Life, bringing this hall to a point where it could be opened to the public in 1927. For the Department of Anthropology, the fourteen murals by Will S. Taylor for the North Pacific Hall have been removed from their stretchers and mounted on panels to preserve and protect them. The preparation department has also completed a model of an Eskimo house with sixteen small dressed figures; six models showing cooking scenes in the life of the North American Indians, and four miniature models of Indian houses. In the new Reptile Hall, the Bullfrog Group was entirely rebuilt, including the painting of a new background, while the Giant Tree Frog Group, which was begun in 1923, was practically finished.

The most evident progress has been in the mounting of the Asiatic specimens of the Faunthorpe-Vernay Expedition. Mr. Louis J. Jonas was especially employed for this work, while members of the department staff have also been giving a great deal of attention to the mounting of this superb series of groups. During the year the sloth bears were placed on a permanent base and installed in a case. The following new groups were completed: Sambur Deer, Sumatran Rhinoceros, Thamin Deer (the major part of the work on these three groups being done during 1925), Black Buck, Swamp Deer, Axis Deer, Tiger, and Banting. The cow elephant for the Indian Elephant Group was also mounted.

In addition to the above outstanding work, a great amount of routine work, notably the cleaning of skeletons, study skins and mounting of birds and mammals, and the tanning of skins, has been accomplished.

Before Mr. Akeley left for Africa in February, he completed the Lion Group and installed it in the North Asiatic Hall as a model for the type of groups that are to constitute the great African Hall. His three life-size sculptures illustrating Lion-Spearing are cast in bronze and are also installed in the North Asiatic Hall. The Museum is indebted to Mr. Childs Frick and to Mr. George D. Pratt, whose generous

African
Hall

contributions made it possible for Mr. Akeley to execute this unique feature of African life. The five gorillas, which are to go into the gorilla group, are assembled temporarily in a case in this hall. These exhibits, together with the model of the future African Hall, the Elephant Group and the White Rhinoceroses, made it practicable to set aside the North Asiatic Hall as a Pro-African Hall, and a formal opening of this hall was held on January 21, 1926.

The generous contributions of Mr. George Eastman, Daniel E. Pomeroy and the late Colonel D. B. Wentz made it possible for Mr. Akeley to proceed to Africa to collect the material for six habitat groups for the future African Hall. Accordingly, Mr. Akeley, accompanied by his wife and a corps of preparators and artists, sailed for Africa early in the year, where later they were joined by Messrs. Eastman and Pomeroy. The expedition was extraordinarily successful, due to the untiring energy of Mr. Akeley and his associates.

Several changes have taken place in the personnel of the scientific staff. Death has taken two of our honored members.

Changes in Staff In January, Dr. Ralph W. Tower, Curator of Books and Publications for more than twenty-three years, died, after a brief illness from pneumonia. Time only intensifies our sense of loss. Because of his modest nature, few realized the extent of his influence, the breadth of his vision, and the effectiveness of his service.

The plan of the Trustees for raising The Ralph Winfred Tower Memorial Fund as a special endowment for the Library is a well-deserved tribute to Dr. Tower's life and work. The high regard in which Dr. Tower was held by his colleagues and co-workers, as well as his exceptional position in the affection of the entire personnel of the Museum, is indicated by the resolution adopted by them.

At a special meeting of the Scientific Staff and Administrative Officers, and other employees, held in the Library on January 27, 1926, the following resolution was adopted:

The Scientific Staff, Administrative Officers, and other employees of the American Museum of Natural History, meeting in joint session, hereby adopt the following resolutions.

WHEREAS, we have been overwhelmed with grief at the loss, after a brief illness, of our friend and colleague, Professor Ralph Winfred Tower, Curator-in-Chief of the Library and Publications, and Curator of the Department of Comparative Physiology, in this Museum; therefore be it

RESOLVED that, in Professor Tower's death, science has suffered a severe loss; this Museum an irreparable disaster; and each of us, his colleagues, sees the passing of a most sincere friend and adviser. During his twenty-three years' service, his exceptional ability and sound wisdom have been of invaluable service to this institution, while his sterling character, efficient worth, and friendly courtesy have endeared him to his associates. Further be it also

RESOLVED that we, as a body, convey to Mrs. Tower and the other members of his family our heartfelt sympathy and affectionate regard in their great sorrow and bereavement.

(Signed) ROY WALDO MINER,
Secretary of the Scientific Staff.

(Signed) HENRY J. LANGHAM,
Secretary of the Administrative Staff.

January twenty-seventh
1926

The Library Staff and the members of the Division of Printing and Publications expressed their appreciation in the following resolutions:

RESOLVED: That the members of the Library staff feel a profound sense of sorrow and irreparable loss in the death of their Curator, Ralph W. Tower, and wish to give expression to the high esteem and strong affection in which they held him, not only as their departmental head, but as a friend and counselor. Always working with singular cheerfulness himself, showing a justice higher than mere consideration for those working with him, and never failing in kindly help either as departmental head or as man, he has rendered years of service enriching not only this and other departments of the Museum but all those whose work or lives touched his own.

(By the Division of Printing and Publication):

RESOLVED, That the passing of our chief, Doctor Ralph Winfred Tower, has taken from our midst a friend, the measure of whose devotion to our interests and to The American Museum of Natural History can never be expressed. The Division has sustained an irreparable loss, filling us with a deep sense of sorrow. Doctor Tower's thoughtful tolerance and his kindly counsel in all our shortcomings clinched for him a place in our hearts for all time. Because of his years of unselfish service, always cheerfully given, and his untiring efforts in our behalf, it can truly be said, he was one of us.

Equally crushing was the blow received when Carl E. Akeley passed away on November 17 in the Belgian Congo, in the wildlife sanctuary of the Kivu, Parc National Albert, created through his interest in and love of animal kind. High tribute is paid to his genius and attainments, but it is the charm of his personality and the inspiration of his ideals that will be sorely

missed. Fortunately we have in Mr. James L. Clark a man familiar with and appreciative of Mr. Akeley's ideals and one capable of carrying them on.

At a meeting of the Administrative and Scientific Staffs, held on December 6, 1926, the following Minute, prepared by Dr. Frank M. Chapman, was adopted, expressing regard and appreciation of Mr. Akeley and his work:

We have met to honor the memory of our friend and associate, Carl Ethan Akeley, and to pay a tribute to his life and achievements in order that others may know in what esteem we, his colleagues, held the man and his works.

Akeley was a man of wide interests and exceptional gifts. He leaves behind him a record as naturalist, taxidermist, sculptor, inventor, teacher and conservationist. But whatever the undertaking he was inspired by standards that, aiming at perfection, permitted no compromise with expediency and relentlessly forced him to give his best regardless of the resulting demands on his time, his strength and his resources.

As a naturalist he was a sympathetic, keenly observant student of those forms of life which engaged his attention; if need be, a fearless, persistent hunter who killed only that he might preserve.

As a taxidermist, uninfluenced by the traditions of his profession, he evolved methods which revolutionized its technique and made possible results before unattained. To his skill as a master craftsman there were added the vision, the ideals, the creative impulses of the born artist which, finding expression in his work, won for it the commendation of sculptors and for him a place in their ranks.

As a naturalist and taxidermist, he originated and constructed apparatus designed to further his labors in field and workroom which demonstrated his ability as an inventor.

As a teacher, he exerted wide influence by force of example, through the interest in nature aroused by the beauty and originality of his museum exhibits, and by contact with his fellows. No one applied in vain to Carl Akeley for instruction or for kindly, helpful criticism.

As a conservationist, moved by an inborn love of wild life, profound regret at its rapid disappearance, and a zealous desire to protect it, he spared no effort to secure the preservation of large areas in Africa where primeval conditions still existed. Nothing could have brought more solace to his last hours than to know that the land in which they were passed was a sanctuary for the wild life he loved so dearly.

From this brief estimate of Carl Akeley's attainments it is clear that in his death the museum has suffered an irreparable loss. The great task in which he was engaged when death found him would, when completed, have fittingly capped the pyramid of his life's labors and have given to the museum an incomparably valuable and beautiful exhibit of a remarkable mammalian fauna.

But profoundly as we regret the passing of Akeley the tireless, gifted, inspired worker, the man ever animated by a burning desire to achieve perfection, it is of Akeley, the man, we think first when we realize that he has gone on the long trail. That depth of character which held Akeley ever true to his ideals made of him a loyal, steadfast, dependable friend. He was never too absorbed in his affairs not to be interested in yours. To him we could go for information, advice, or sympathy, with the assurance of finding a warm and open heart. To our sorrow in the loss of a talented colleague there is thus added a feeling of deep personal grief in the death of a well-beloved comrade.

In submitting the reports of the department chiefs, the Acting Director desires to express his deep appreciation of the cordial support he has received from all members of the staff, in the complex problems of administration and in carrying forward the development of the Museum.

Department
Reports

ASTRONOMY

CLYDE FISHER, in Charge

The interest in Astronomy in this part of the world was greatly stimulated by the Solar Eclipse of 1925, and this enthusiasm has been sustained to a surprising degree, as evidenced by the Departments of Astronomy now carried by newspapers and popular magazines which did not have sections devoted to this subject before, and by the increased number of non-technical lectures given. Perhaps no branch of science has an appeal so universal, whether it be on account of the practical relation to navigation, on account of the beauty of the night sky, or on account of the contemplation of island universes a million light-years distant.

The Pro-Astronomic Hall continues to attract the attention of visitors. The outstanding exhibits in this hall are the three oil paintings of recent total eclipses of the Sun by Howard Russell Butler, N.A., which were gifts to the Museum by Mr. Edward Dean Adams and by the James Douglas Building Fund. These are, without doubt, the finest paintings of this kind in the world. There are also installed here three other paintings by the same artist, namely: The Aurora Borealis, the Approaching Shadow of the Oregon Total Solar Eclipse and a Lunar Landscape,—the last being an imaginary view from the floor of a crater on the Moon, showing the Earth in the sky, painted in collaboration with Professor Henry Norris Russell of Princeton University. "A Lunar Landscape" was purchased through the Douglas Fund; "The Aurora Borealis" is the gift of two friends of the Museum; "The Earth as Seen from the Moon" has been loaned by Mr. Howard Russell Butler. Photographic transparencies showing eclipse phenomena, comets, meteor trails, etc., are shown in three illuminated panels.

In the corridor just north of, and adjacent to the Pro-Astronomic Hall, there has been installed a collection of eight paintings of volcanism by Angelo Heilprin, models of Mont Pelé, a number of bread-crust bombs, and other volcanic specimens, the object of the exhibits being to correlate volcanism on the Earth with the volcanic theory for the origin of the craters on the Moon.

Our exhibition collections have been augmented by a series of nine superb photographs of the Moon, showing craters, mountains, so-called seas, etc., and illustrating the phases at intervals of about three days during a lunar month. The photographs were made at the Yerkes Observatory and were presented to the Museum by Mr. Gaylord Johnson.

In this corridor are also exhibited other photographs of the Moon, photographs of the Sun, and detailed plans of the proposed Hall of Astronomy.

At the entrance of the Hall is a chart, very useful to school children and other amateurs in sky-lore, calling attention to the most interesting objects in the sky, giving their locations and the time when they may be best observed. The chart is prepared by Charles Liebman, Jr., and is changed on the first of each month.

During the year, through the generosity of Mr. S. B. Grimson, the Department has had the use of an excellent five-inch telescope, equatorially mounted, and equipped with a driving-clock. With this instrument it has been possible to observe Mars at his near approach in the autumn, to study the Moon on several occasions, to chart sun-spots from day to day and thus to demonstrate the rotation of the Sun on his axis, to observe Jupiter and his satellites and other astronomical objects.

The July-August, 1926, number of *Natural History* was devoted to Astronomy and was edited by Dr. Clyde Fisher. It contained non-technical articles by leading American astronomers, one bridging astronomy and geology, one on our proposed Hall of Astronomy, and one on the new Zeiss Projection Planetarium at Jena. Copies of this magazine were sent to every member of the American Astronomical Society, to every member of the American Association of Variable Star Observers, to leading astronomers of Canada and of the countries of Europe and also to the editors of several hundred leading newspapers of the United States.

Astronomers, both professional and amateur, from all parts of the world have written letters approving the plans of our Proposed Hall of Astronomy. These, together with the favorable editorial comment received from leading newspapers throughout the country, encourage the belief that our project is worthy of the American Museum of Natural History, and one that will contribute to a neglected yet most important field of education.

The proposed Astronomical Hall will be a four-story structure and will occupy the central part of the great museum group of buildings. It is quite fitting that this ancient and fundamental science be located in the hub of the large series of popular scientific halls of the American Museum of Natural History. The topmost part of this building will be a large hemispherical dome, about seventy feet in diameter, in which will be installed one of the new Zeiss Projection Planetariums. The Hall has been described in detail in the *Annual Report of the American Museum* for 1925 and in the Astronomy Number of *Natural History* (July-August, 1926).

Professor William Wallace Campbell, Honorary Director of the Lick Observatory, has felt obliged to withdraw from our Advisory Committee, on account of his manifold duties in connection with the presidency of the University of California. Professor Henry Norris Russell, Director of the Halsted Observatory, who has been a member of the Committee, has consented to act as Chairman in place of Professor Campbell. The vacancy in the Committee has been filled by the selection of Professor Harlow Shapley, Director of the Harvard Observatory. The other members of the Committee are Professor George Ellery Hale, Honorary Director of the Mount Wilson Observatory; Professor Samuel Alfred Mitchell, Director of the Leander McCormick Observatory; and Mr. Howard Russell Butler, Adviser to the Architects.

GEOLOGY, GEOGRAPHY AND PAST HISTORY OF THE EARTH

W. D. MATTHEW, Acting Curator

At intervals during the summer and fall, Associate Curator Reeds with two assistants continued the investigation of the seasonally banded glacial clay deposits in the Hackensack and Hudson river basins. By means of boring and special accessory tools, 155 samples of the deposits, each two feet long, were secured at various depths not exceeding twenty feet. The sections obtained have been treated in the laboratory with a solution of glycerine, and are now being studied for the number of varves or yearly deposits which they contain.

Acting Curator W. D. Matthew left New York City on March 13, 1926, en route for Peking, China, to join the Museum's Central Asiatic Expeditions as palæontologist. The expedition, under the leadership of Dr. Roy Chapman Andrews, expected to resume field work in Mongolia during the summer months, but owing to the presence of two contending Chinese armies across the trail at Kalgan, the expedition was unable to get into the field, although three attempts were made from Peking. In the meantime, Doctor Matthew studied the fossil material in Peking, which had been gathered by the Central Asiatic Expeditions and the Geological Survey of China.

In accordance with his plans for a world tour, Dr. Matthew left China for India, then proceeded to Java and thence to England, making a study of the fossil mammals and localities in Java and of the collections in the Calcutta and London Museums from the Siwalik Hills.

Mr. R. H. Beckwith of the Department staff also went to Peking with the expectation of doing geological work with the Museum's Central Asiatic Expeditions, but since it was impossible to get into the field, he spent the remainder of the year in the study of the Russian language and in making abstracts and translations of Russian geologic literature dealing with Siberia and Mongolia. Before leaving the Museum he arranged a special exhibit of Hawaiian volcanic rocks.

Following the departure of Acting Curator Matthew, Associate Curator Reeds was given charge of the Department. In the month of March, Mr. Lewis W. MacNaughton and Miss Winnie McGlamery resigned; Mr. E. J. Foyles, Assistant, resigned at the close of August to accept a position with the University of Rochester. Mr. D. D. MacLellan, A. M., Columbia, Mr. G. R. Megathlin, A. B., Amherst, and Mr. F. D. Matlack were engaged as temporary assistants during the summer months. Mrs. Mary V. Forster, A. B., Ohio, served as voluntary assistant for five months, while Miss Althea Lepper, A. B., Ohio, was engaged as temporary assistant for six months. Mr. P. B. Hill, technical assistant, and Miss Edith G. Marks, secretary, served throughout the year.

The work accomplished by these assistants included preparation of general exhibition labels, sorting and storing invertebrate fossils, recording accessions, assisting with the field and laboratory work on the glacial clays, the care of the seismograph and its records, and revising and typing manuscripts submitted to Doctor Reeds as editor of Division I publications.

Associate Curator Reeds devoted most of the year to editorial work. As Editor of Division I publications, assisted by Miss C. M. Beale, thirteen *Novitates* papers were edited and printed, and one other sent to press. Four *Bulletin* articles, totaling 340 printed pages and including 223 illustrations, were edited and printed in the course of the year. Three other articles were edited, and two more are nearly ready.

Associate Curator Reeds, assisted by Miss C. M. Beale and Mrs. Mary V. Forster, edited Volume II, Natural History of Central Asia, entitled "The Geology of Mongolia" by C. P. Berkey and F. K. Morris, consisting of 798 typewritten pages of manuscript and 242 blocks of illustrations. On December 31, seventy-eight galleys of proof had been distributed to the Editor and authors by G. P. Putnam's Sons, printers.

Dr. Reeds and others edited a set of route maps consisting of thirty sheets surveyed by Major L. B. Roberts, F. B. Butler and H. O. Robinson of the 1925 Central Asiatic Expeditions, along the Kobdo-Kalgan trail, from Kalgan to Orok Nor, a distance of approximately 865 miles. These maps were engraved and printed for the Museum by the Williams-Webb Company, Incorporated, of Washington, D. C.

Associate Curator Reeds, assisted by Misses Berger and Edwards, edited the September-October number of *Natural History*, consisting of 112 printed pages and numerous illustrations entitled "The Romance of Fossil Hunting."

Previous to leaving New York for China, Doctor Matthew prepared two joint papers with Walter Granger, entitled "Two New Perissodactyls from the Arshanto Eocene of Mongolia" and "On a New Primitive Deer and Two Traguloid Genera from the lower Miocene of Nebraska," which were published as *Novitates* 208 and 215, respectively. While crossing the Pacific Ocean, Doctor Matthew wrote for the September-October number of *Natural History* "The Romance of Fossil Hunting on the High Plains" and "The Most Significant Fossil Finds of the Mongolian Expeditions."

A paper, "Notes on the Undescribed Meteorites in the Collection of the American Museum of Natural History," by L. W. MacNaughton, was published in February as *Novitates* 207.

Doctor Reeds wrote four articles in the course of the year: "The Varved Clays at Little Ferry, New Jersey," was published in February as *Novitates* 209; "The Arbuckle Mountains, Oklahoma" appeared in the September-October number of *Natural History*; "Glacial Lakes and Clays near New York City" and "James Furman Kemp, 1859-1926" are in press for the January-February, 1927, number of *Natural History*.

Of the 56 accessions received during the year, the most important consist of the following entries:

Accessions A fine collection of Hawaiian lavas in exchange with Director Edward M. Brigham of Battle Creek Museum; fourteen Mazon Creek fossils in exchange with Director M. P. Sommes of the Joliet Township High School and Junior College, of Joliet, Illinois; a collection of Mongolian rocks, more than a thousand in number, collected by Messrs. Berkey and Morris of the Central Asiatic Expeditions; one hundred and twenty-five unidentified Triassic ammonites from Nevada, purchased from Mr. Percy Train; two samples of asphaltic sand from Rancho la Brea: one taken from the skull of a mastodon—gift of the Los Angeles Museum; a collection of Middle Cambrian trilobites from Mount Stephen, British Columbia, gift of Mr. G. K. Bell, Jr.; two hundred assorted rocks and fossils from Venezuela, Colombia and Panama, gift of the Texas Co.; selected specimens of Upper Cretaceous fossiliferous greensand rock from Switzerland, gift of Mr. A. Feller; two hundred carboniferous fossils from Jemez Springs, New Mexico, collected by Master Stuart Connolly Lott—gift of Mr. Childs Frick; twenty-six "Bichrome" pictures of volcanoes, purchased from Dr. F. A. Perret; slice of No. 2 Bingara iron meteorite, 4,130 grams, gift of the Mining and Geological Museum, Sidney, N. S. W., through Dr. G. W. Card; an iron meteorite, 215.655 grams, from Newtown, Connecticut, purchased of Mr. Kurtz Wilson, Jr.

MINERALS AND GEMS

HERBERT P. WHITLOCK, Curator

The research work of the Curator for the past year has been focused upon the problem of the relation of crystal habit, as instanced by the mineral calcite, to the genetic conditions present in diabase rock formations.

Research and Publication

This problem has been attacked through the medium of detailed studies, the first of which is now in press under the title of "A Study of the Crystallography of the Calcites of the New Jersey Diabase Region." A second paper, involving the calcite crystals of the Michigan diabase regions, is now in preparation. It is purposed by these studies to establish a basis of relationship between the forms assumed by calcite crystals from widely separated basaltic areas, and if possible suggest a norm for this crystallogenic phase. In the course of this investigation a number of new forms have been added to the species and many rare and hitherto obscure forms established.

The Curator has added to the *Guide Leaflet* series a guide to the methods of gem cutting and the forms in which gems are cut, under the title of "The Art of the Lapidary." A popular article was published by the Curator in the *Jeweler's Circular*, entitled "The Development of Jewelry Forms."

The Curator spent the months of May, June and July in Europe studying the methods of installation in the Museums of France, Spain, Italy and Switzerland. A popular article will shortly appear in *Natural History*, embodying some of the results of these studies.

Dr. Lea McIlvaine Luquer, Professor Emeritus of Columbia University, has been made Research Associate in Optical Mineralogy.

There has been a marked increase during the past year in the service which the Department has been called upon to render in the matter of identification of specimens and in the furnishing of information regarding them. Of such wide scope and so varied in character have

Educational Scope

these inquiries become that the seeker after information may be said to range from the head of a large corporation who comes to us with an important problem, to the Boy Scout who appears with his pockets filled with the mineral chips that he has accumulated on his "hikes." School classes of various grades apply for information through the medium of short talks in the Morgan Hall, and a larger audience is reached by means of the radio.

From time to time special exhibits are organized to take advantage of some current or local topic of interest. Two such during the past year have been:

- (1) A series of the Russian carved Easter eggs, assembled from the Morgan Collection and displayed with descriptive labels featuring this now obsolete Russian custom. This temporary exhibit was installed during the Easter holidays.
- (2) The interest in Roumania, popularly engendered during the visit of Queen Marie of Roumania to this country, was made the occasion for a temporary exhibit of the minerals of Roumania. A novel method was used in the installation of this series. Specimens of Roumanian minerals were not removed from the general series, but the minerals were distinguished by small strips in the Roumanian colors placed next to them on the mounts. Similarly colored shields attached to the glass of the cases, in such a manner as not to interfere with the view, directed attention to the location of the designated specimens, and a conspicuously placed group label explained the method of designation and instructed the visitor to look for the Roumanian colors.

The policy of endeavoring to fill the gaps representing mineral species unrepresented in the Collection has resulted in the addition of several of these missing species. Notable among the specimens added to the Gem Collection is a magnificent suite of nine cut sapphires of unusual size and, in several instances, of rare color. These are the gift of Mr. J. P. Morgan. Two large and finely cut gem tourmalines were acquired through the Bruce Fund. Notable gifts to the General Collection of Minerals include remarkably fine specimens of wulfenite, vanadinite and descloizite, presented by Dr. L. D. Ricketts.

EXTINCT VERTEBRATES

W. D. MATTHEW, PH. D., Curator-in-Chief

During the past year the activities of this department have been directed chiefly to the remounting and arrangement of the large Proboscidean Collection and to the moving and installation of the great dinosaur skeletons into the new Dinosaur Hall preparatory to an early opening.

Notwithstanding that several members of the scientific staff have been absent on field duty or engaged in exhibition work, the department has published the following twelve articles: On a New Primitive Deer and Two Tragulid Genera from the Lower Miocene of Nebraska, by W. D. Matthew; Two New Perissodactyls from the Arshanto Eocene of Mongolia, by W. D. Matthew and Walter Granger; Additional New Genera and Species of Mastodontoid Proboscidea, by H. F. Osborn; A New Deer from the Siwaliks, by Barnum Brown; The Skeleton of *Moschops capensis* Broom, a Dinocephalian Reptile from the Permian of South Africa, by W. K. Gregory; The Dentition of *Dryopithecus* and the Origin of Man, by W. K. Gregory; Cretaceous Mammal Skulls from Mongolia, by W. K. Gregory and G. G. Simpson; The Hemicyoninae and an American Tertiary Bear, by Childs Frick; Tooth Sequence in certain Trilophodont Tetrabelodont Mastodons, by Childs Frick; Contribution to the Knowledge of the Fossil Hyracoidea of the Fayum, Egypt, with Descriptions of several new Species, by H. Matsumoto; Descriptions of Additional Fossil Birds from the Miocene of Nebraska, by Alexander Wetmore; An Additional Record for the Fossil Hawk, *Urubitinga enecta*, by Alexander Wetmore.

The article on Cretaceous mammal skulls is of exceptional importance on account of the rarity of the material. Two extensive articles on important subjects, "A Study of the True Rhinoceroses of the American Oligocene," by H. E. Wood, and "The Musculature of Ornithischian Dinosaurs," by A. E. Romer, have been submitted but could not be published because of the congested condition of the *Bulletin*.

The following were mounted and placed on exhibition: Three skeletons, namely, the horse *Plesippus simplicidens* (Texas); a rhinoceros, *Trigonas osborni* (Colorado); a dinosaur, *Protoceratops andrewsi* (Mongolia).

Several skulls from the Central Asiatic, Samos and Indian collections.

A skeleton of *Equus scotti* was prepared and sent in exchange to the Colorado Museum of Natural History.

Considerable progress was made in preparation and cataloguing of the Central Asiatic and Samos collections, and the Indian collection is now about two-thirds prepared. The Snake Creek collections of 1925 and 1926 have been prepared, catalogued, and important materials have been photographed for publication.

Dr. W. D. Matthew has been in China with the Central Asiatic Expeditions during the year. On his return trip he investigated the Java fossil localities, and made critical examination, figures and notes on the Indian collections at Calcutta and in the British Museum, for studies of our Indian collection. Mr. Walter Granger and Mr. George Olsen continued work in China. Mr. Albert Thomson spent four months in Nebraska, securing considerable additional material from the Snake Creek Pliocene beds.

Mr. Childs Frick continued explorations in the late Tertiary of California and New Mexico. The field party this year, as last, was in charge of Mr. Joseph Rak. Operations were carried on during the winter months in the Miocene deposits in the vicinity of Barstow, California, and in the spring, work was resumed in the exposures of a somewhat similar age lying to the north of Santa Fé, New Mexico, where Mr. Rak was reinforced by Messrs. Charles Christman and Charles Falkenbach of the Preparation Department. Large additional collections were secured from both localities—a total of 53 boxes of some five tons' weight being forwarded to the Museum. Amongst the material from Barstow are a number of skulls and other specimens of three-toed ponies and Carnivora, one locality yielding remains of a surprising number of individuals of the rare genus *Hemicyon*, as well as of *Amphicyon* and *Tephrocyon*. The work at Santa Fé largely supplemented the collections of the two

previous seasons, the more spectacular material including an additional skull and cranial and mandibular specimens of the long-symphysised, four-tusked mastodons of the genera *Trilophodon* and *Serridentinus*, well preserved rhinoceros crania, and a very unique representation of the Camelidæ. A large amount of preparation work has been done on these collections. Mr. Frick joined the party in September, and together with Mr. Rak carried out a hurried reconnaissance of the Santa Fé and contiguous areas. Among the more interesting results of the season was the location of exposures overlying the more typical Mid-Miocene beds that contain an unexpected *Hipparion* fauna and other beds with remnants of Pleistocene mammals. In connection with his investigation of these faunas and researches on the Pleistocene horses, Mr. Frick visited the Museums of Paris, Lyons and Bâle, and has brought out in the Museum *Bulletin* two papers dealing with two of the most interesting of the Miocene groups: A peculiar section of Carnivora, which he has called the Hemicyonidæ, and the long symphysised section of the mastodons (i. e., "The Hemicyoninæ, and an American Tertiary Bear," and "Tooth Sequence in Certain Trilophodont Tetrabelodont Mastodons"), as well as an article in *Natural History* (i. e., "Prehistoric Evidence") which touches on the general problem of the late Tertiary.

Since this department was founded, a considerable part of each year's collection could not be prepared and has gone into storage, until now 270 boxes, mostly of large size and containing a vast amount of material, have accumulated. This is especially the case in the marine reptile collection, and the proposed marine fossil hall cannot be put on a proper basis until at least a part of this accumulated material can be worked up for exhibition.

The supply of casts of several of our important specimens is exhausted, with orders for many of the classic types unfilled through lack of a larger laboratory force necessary to meet these orders.

The necessity of maintaining the reputation of this department of the Museum's activities demands an increase in the departmental budget for an additional force adequate to meet its proportional growth.



DEPARTMENT OF LOWER INVERTEBRATES
FIELD STUDIES FOR THE CORAL REEF GROUP
Expedition financed by Mr. John S. Phipps, Mr. John H. Phipps,
and the Jesup Fund

LOWER INVERTEBRATES

ROY WALDO MINER, Curator

The work of the Department for the past year shows substantial progress along lines of activity on our permanent program, but lack of funds has precluded expansion in several new fields of projected development extremely desirable for enlarged usefulness from both a scientific and an educational viewpoint. The work accomplished is discussed below under appropriate headings.

In spite of the serious congestion in the printing department, six technical articles based on our collections have been published by the Museum. Mr. Waldo L. Schmitt's **Scientific Research and Publication** important paper entitled "The Macruran, Anomuran, and Stomatopod Crustaceans collected by the American Museum Congo Expedition, 1909-1915," was published in the *Bulletin*. Associate Curator Van Name published two papers in *Novitates*, entitled "Forest Isopods from Barro Colorado Island, Panama, Canal Zone," and "A New Specimen of *Protobalanus*, a Supposed Paleozoic Barnacle." Research Associate Stunkard's paper, "Tapeworms of the Rhinoceroses," based on Congo collections, and reported as completed last year, was published in *Novitates* in March. Research Associate Treadwell's paper, "Polychætous Annelids Collected by Captain R. A. Bartlett in 1924," also appeared in the latter publication, as well as Curator Miner's paper entitled "A Fossil Myriapod of the Genus *Parajulus* from Florissant, Colorado." Research Associate Myers, in collaboration with H. K. Harring, brought out the third volume of their monograph of North American Rotifers, published by the University of Wisconsin, the types described being donated to this Museum. Two important Congo papers, namely, Pilsbry on Mollusks and Chamberlin on Myriapods, are still in press, delayed by the congestion above mentioned. Research in progress includes Dr. Van Name's extensive and careful work on tropical and South American isopods. Research Associate Treadwell is investigating annulate collections from Fiji, China, Hawaii, South America, and those of the "Arcturus" expedition, all of which will be published outside the Museum. From these, series will be donated to the Museum, including a number of types. Re-

search Associate Myers has nearly completed a fourth volume of his monograph, the types in this case also to be deposited here. Research Associate Stunkard reports progress on the parasites of the Congo collection. Curator Miner is working intensively on the corals of the Bahamas, and has published articles on his Bahama expeditions and coral reef work in *Natural History*, the *Scientific American*, and the *Tropic Magazine*.

The exhibition work of this department is concerned with the Hall of Ocean Life and the Darwin Hall. Its chief energies during the past year have centered about the oceanic exhibits for the former hall and the exhibits of microscopic pond life in the latter. In connection with the Hall of Ocean Life, considerable progress has been made with the preparation of material for the new Coral Reef Group. Thousands of specimens of corals have been cleaned, bleached, waxed and colored. The larger specimens have been reinforced and mounted. Branching types have been assembled, drilled and repaired. The greater part of the time of four assistants has been devoted to this work. Careful plans for the construction work have been finished and are now being carried out in the Hall itself.

The collection of shells is ready for exhibition, and will be open to the public as soon as the Hall itself is ready. Thousands of species are represented by excellent specimens, and many rarities are shown. Plans for a series of ecological exhibits are being prepared and will be installed later on as opportunity permits.

The modeling of the Rotifer Group has been completed in the laboratory, and is now ready for final assembling in the exhibition hall. Work on special exhibits for the annulate alcove has progressed, and many of the alcoholic mounts have been refilled and reconditioned.

Through the generosity of Mr. John H. Phipps and his father, Mr. John S. Phipps, an expedition was undertaken to the Bahamas during July and August of this year to continue the Curator's studies of the Andros Barrier Reef, and to secure additional material for the new Coral Reef Group. Two years ago Curator Miner secured the corals necessary for this exhibit with the aid of Mr. J. E. Williamson and

**Field
Work**

his submarine tube. This year the party studied the fish fauna of the reef, and secured casts, color sketches, and other data for modeling the typical reef fishes for the new group. Sketches were also secured for the cycloramic backgrounds which have been planned as a setting. The Curator and Mr. John H. Phipps were in joint command of the expedition, and were accompanied by Messrs. Chris E. Olsen, modeler, and Francis L. Jaques, artist, of the Museum staff. Mr. Roy W. Miner, Jr., assisted Mr. Olsen in his work. Mrs. Eunice Thomas Miner accompanied the party and assisted in the photographic work, and in coöperation with Curator Miner, secured photographs and motion pictures illustrative of the life and industries of Nassau for use in the Museum's educational activities. During the trip, the party experienced the first of the disastrous series of hurricanes that has devastated the West Indies during the past summer, but fortunately came through without serious mishap, returning with all objects of the trip accomplished. About one thousand photographs were secured, including many of Nassau before and after the hurricane, as well as twenty-six hundred feet of motion picture film, casts and color studies of sixty species of typical reef fishes, together with an adequate series of preserved specimens. Mr. Jaques made a fine set of sketches of the reef surroundings.

Through the courtesy of Mrs. Samuel D. Sturgis, Dr. Van Name devoted the early spring to a trip to the Isthmus of Panama and the Pearl Islands. While there he made a collection of about 900 specimens of marine invertebrates, mostly from the west coast of the Isthmus and the islands in the Bay of Panama. This area has not been well represented in our collections except in the case of mollusks, so that this material will prove an important addition to our study series.

During the past year, 12,593 pupils visited the Darwin Hall in 419 classes, from 200 different institutions. Of these, 10,452 were from public schools, 1,093 from private and parochial schools, and 1,048 from colleges. There has been a progressive use of the Darwin Hall by institutions of higher learning which is very gratifying. These include Columbia University, Barnard College, Teachers College, New York University, College of the

Educational
Use of the
Darwin Hall

City of New York, Middlebury College, Connecticut College for Women, Rutgers College, Wilson College, and Berea College, Kentucky.

During 1926, the specimens added to the scientific collections total 1,013 for the general invertebrate groups, including 145 species. The work on the mollusk collections has proceeded most satisfactorily, 4,486 lots being catalogued during the year.

Scientific Study Collections

Mrs. Ida S. Oldroyd of Stanford University devoted two months to work on the land shells, and, during the year, visited various European museums, taking with her problematical specimens from our collections to compare with examples abroad. The study collections have received their usual careful inspection and are in excellent condition.

Among the most important of the accessions of the past year are the following: A polished abalone shell, presented by Mr. Percy R. Pyne, found on the coast of France, with incidental configurations resembling a portrait of Louis Philippe; a series of 125 identified annulates, including one type, presented by Prof. A. L. Treadwell; a collection of mounted and identified rotifers, cladocerans and copepods, including one type, presented by Mr. Frank J. Myers; a series of about 900 invertebrates collected by Dr. Van Name in the Pearl Islands and bay of Panama; a collection of marine shells from Negros Island in the Philippines, presented by Dr. Charles B. J. Mittelstädt; a collection of 2,000 marine shells and sponges, from Sanibel, Florida, presented by Mrs. John Jay Chapman; a collection of echinoderms from Puget Sound, British Columbia, received in exchange from Mrs. Ida S. Oldroyd of Stanford University; a supplementary equipment for diving outfit from A. Schrader's Son, for use in expeditionary work and exhibition; a collection of invertebrates from Alaska, presented by Mr. John T. Nichols; a collection of crustaceans from Hawaii, presented by Mr. J. M. Johnson; a collection of invertebrates from North Greenland, received from the American Museum Greenland Expedition; one of Mr. Zarh H. Pritchard's fine undersea paintings, donated by Mrs. William H. Bliss; and another donated by the artist himself.

Noteworthy Accessions



DEPARTMENT OF ENTOMOLOGY
Tiger Swallowtail Butterfly Group

INSECTS AND SPIDERS

FRANK E. LUTZ, Curator

Thanks to the generosity of friends and the continued coöperation of the Commissioners of the Palisades Interstate Park, the department's Station for the Study of Insects in Harriman State Park, near Tuxedo, N. Y., had a very successful season in 1926. In addition to Dr. Lutz, in charge, there were in residence throughout the summer F. Martin Brown of St. George's School, Newport, R. I., Albert Redmond of New York City, W. S. Creighton of Princeton University, Brandt Steele of the University of Indiana, and five boys.

The Nature Trails, paths along which objects of interest (botanical as well as zoological) are explained by means of labels, were maintained on the Station grounds as in 1925 but with some changes suggested by the previous experience. This method of education concerning nature where nature is natural has met with most gratifying commendation. Literally hundreds of Nature Trails have been made this summer in various parts of this country and also abroad. Our Trails have been maintained chiefly as a proving ground for new ideas and as a demonstration to people who may wish to make similar Trails elsewhere, although, of course, we welcome the casual visitors.

This educational work consumed most of the Station's time in 1925 but in 1926 we were able to make a start on the problems for which the Station was established. These concern insect biology in its full sense. Papers are now in press by Mr. Brown on bacterial parasites of insects, by Mr. Creighton on the hitherto unknown slave-making habit of a usually rare genus of ants, and by Mr. Steele on the predaceous habits of "carrion beetles." Work is in progress by Dr. Lutz, in coöperation with Mr. Alfred L. Loomis of Tuxedo, concerning the effect upon insects of high-frequency sound and electric waves.

In addition to the publications just mentioned, Mr. Herbert F. Schwarz, Research Associate in Hymenoptera, working at the Museum, has revised the taxonomy of the **Publications** North American species of an interesting group of bees, the Anthidiinæ. Two of his papers have been published and two more are in press. Mr. C. H. Curran has reported on "New Diptera from the West Indies" and the comprehensive report by Messrs. Rehn and Hebbard on West Indian roaches is nearly published. Other valuable papers have been completed, and will, we hope, appear before long.

The first quarter of the habitat groups of insects planned to enclose the well in the center of the Hall of Insect Life has **Exhibition** been completed. They include life histories of some of our most interesting butterflies, a swarm of Lady-beetles on a Colorado mountain-top, and an orchard infested with the recently introduced Japanese beetle. An especially fine exhibit of silk is being installed with the coöperation of several silk companies. Messrs. Mutchler and Wunder have made good progress with the general exhibits but the results of their labors are of little consequence because a proper system of lighting has not yet been installed.

The Study Collections of insects have never been in better condition. The department has had no expeditions in the field. **Study Collections** but there have been some important gifts, including the collection of 25,800 specimens from Lewis B. Woodruff, deceased.

RECENT AND EXTINCT FISHES

WILLIAM K. GREGORY, Curator

BASHFORD DEAN, Honorary Curator

How a single dead fish can be made to live again in a Museum group, almost defies the skill of the best preparator; how a whole hall full of dead fishes can be made into a **Exhibition** live exhibit, has kept two generations of curators awake o' nights and is still the problem of the hour in this department. Thanks to the wise planning and ceaseless energy of his predecessor and colleagues, the present curator inherited, so to speak, a splendid exhibition hall, a sound general plan of exhibition, many well-thought-out, well-executed habitat groups and some two hundred casts or mounted skins of individual fishes. These were the key pieces in the mosaic that the department is slowly evolving, not so much from its inner consciousness as from constant experiment and discussion.

The treatment of the walls, in "Morene finish," is faintly suggestive of sunny tropical seas. The blue backgrounds in the cases relieved by flecks of lighter color throw the individual fishes into high relief. In the systematic collection the fishes are placed as if swimming in schools or smaller groups, each cluster representing a systematic family. The name of each fish is printed on the label below it, but not too conspicuously; the names of the families are in large letters following the general drift of the group. The families are assembled into suborders and orders, the whole series arranged in alcoves and wall cases chiefly on the south and east sides of the Hall. Each main alcove will have a large mural painting on the wall above it showing some representative fish in its proper environment. The spaces below the high windows will eventually be filled with mounted groups artificially lighted.

At each end of the Hall there will be one large central group. For the shark group, at the west end, the model by Mr. Jaques shows a number of large predaceous sharks of several genera, converging toward a distressed sea-turtle. The central group at the opposite or north end of the Hall will face the Big Game

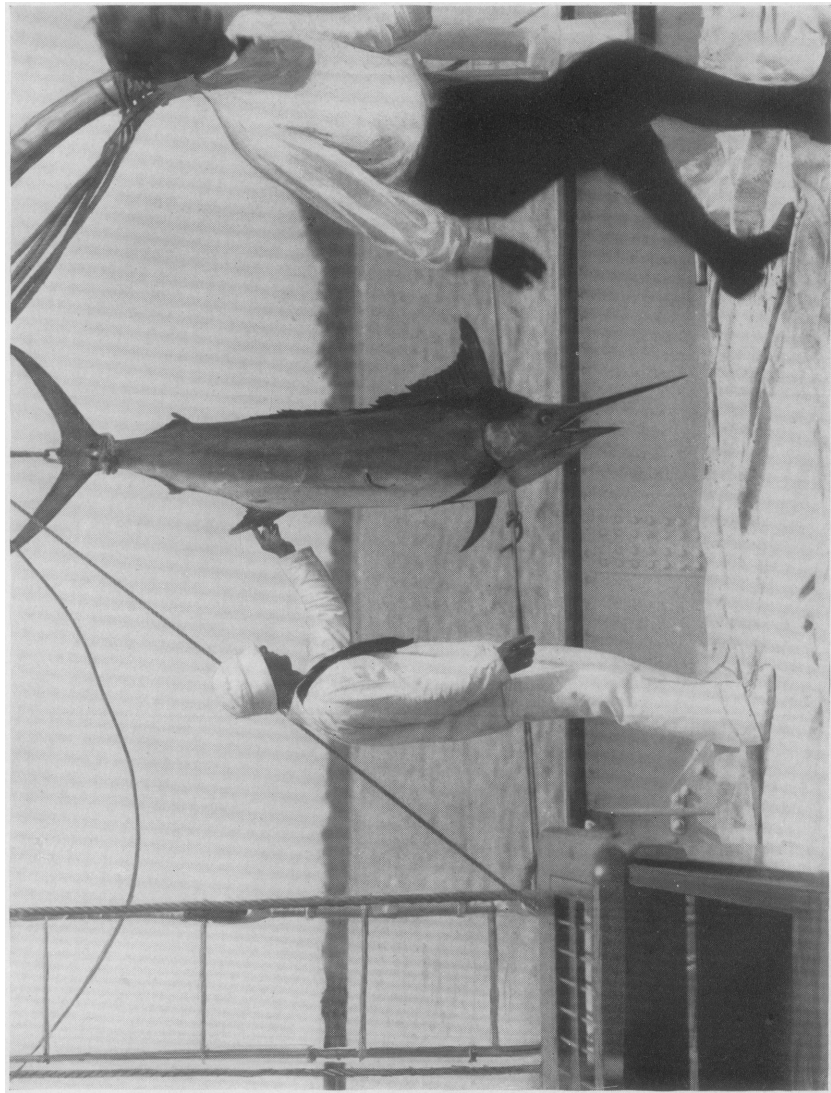
Fish exhibit and will show a nine-foot sailfish leaping out of the water. Materials for the group were presented by Mr. Keith Spalding; the model is by Mr. Walter Escherich.

The middle part of the Hall is occupied by a large enclosure within which will be placed some of the most arresting groups. At the north end of the enclosure will be a series of seven exhibits, entitled "Depths of the Ocean," representing deep-sea fishes collected chiefly by the Arcturus Expedition. The series was designed and is being prepared by Mr. Dwight Franklin and will be completed early in 1927. The central enclosure will eventually also include motion picture and ordinary projection apparatus for scenes illustrating ocean voyages, oceanography, fishes of the open seas, inshore and surface fishes, fresh-water fishes, the breeding of fishes, fish culture, commercial fisheries, and similar topics.

The most noteworthy accession for the Hall of Fishes ever received is the gift from Dr. Zane Grey of his famous collection of Game Fishes, including the enormous mounted trophies of his fishing in many waters. This collection will occupy the entire north side of the hall. Mr. Van Campen Heilner, Dr. Grey's friend, played an important part in securing this splendid gift for the Museum. The biological series of exhibits will be devoted to two general topics: "How Fishes Move" (the locomotor apparatus and how it works), and "How Fishes Live" (food getting, digestion, reproduction, nesting, etc.).

There being no appropriation available for field work in this department in 1926, what has been done in this
Field Work direction has been voluntary.

Associate Curator Nichols devoted his vacation to a reconnaissance trip to Alaskan waters in order to secure data relating to the former migration routes of fishes between northeastern Asia and northwestern North America. Mr. Van Campen Heilner, Field Representative of the department, was appointed ichthyologist of the Museum expedition to Greenland waters under the leadership of Mr. George Palmer Putnam, and financed by Mr. Putnam and Mr. Harrison Williams. Although Mr. Heilner was unfortunately unable to complete the journey with the expedition, some valuable material was



DEPARTMENT OF ICHTHYOLOGY
SAILFISH
Expedition financed by Mr. Keith Spalding

secured by Mr. H. C. Raven, the zoologist of the expedition, including the skeleton and skin of the Greenland shark, together with casts, photographs, measurements, and other data for making an accurate model of this interesting form. Other colleagues and friends contributed valuable collections from the field. By the kind invitation of Mr. Keith Spalding, Mr. Walter Esch-erich of the Department of Preparation was a guest on Mr. Spalding's yacht on a fishing trip in the Gulf of California. Excellent specimens of the sailfish, rooster fish and other large fishes were secured, including full data for the sailfish Group mentioned above. Dr. R. C. Murphy collected for the department a valuable series of Mediterranean fishes while on a cruise in the Mediterranean as the guest of Mr. Jesse Metcalf. Dr. R. W. Miner and party, including Mr. Jaques, in the course of his field work in the Bahamas and with the assistance of Mr. John H. Phipps who placed his yacht and his own services at the disposal of the Museum, collected an excellent series for the Coral Reef Group and many well-preserved duplicates for the study collection. Mr. Herbert Lang sent in to the department several hundred African fishes. From the Central Asiatic Expedition the department has received during 1926 about 2,075 fishes, chiefly collected by Mr. Clifford H. Pope.

These and other new collections have been identified and described as rapidly as possible by Associate Curator Nichols.

**Research and
Publication**

In the early part of the year, Miss E. S. Trotter rendered important aid in this respect, by arranging and cataloguing the Arcturus collection and by rearranging and labeling the general study collections. Unfortunately Miss Trotter, whose home is in Philadelphia, found herself unable to continue in her Museum work. The department desires to record its appreciation of the fine quality and spirit of her services to this Museum.

Associate Curator Nichols during the past year has completed his series of articles on Chinese fresh-water fishes, figuring and describing twelve new species. He also has in press a bulletin describing other new species.

Thanks to the generosity of a friend of the department, a beautiful series of drawings was made by Mrs. Nash for the

Curator's studies on the adaptations of the skulls of fishes to different food habits.

Miss La Monte, besides transacting the current business of the department, has assisted the Curator in work on the exhibition hall and in coöperation with Dr. Gudger has kept the Dean Bibliography of Fishes up to date.

The yearly accumulation of separates by the various members of the department has been checked up against the Bibliography of Fishes, and a large number of cards have been made. The notable achievements of the year, however, have been the checking up of the 43 volumes of the *Index Medicus* and the eleven volumes of the *Cumulative Quarterly Index to Medical Literature*. From these, hundreds of titles not found in the ordinary zoological bibliographies have been added to our files. The great medical bibliographies have now all been checked to date, and another year will find all the annual ichthyological bibliographies checked to date. As it is, our cards for the literature of fishes, 1915-1925, are about double in number the entries in the *Zoological Record* for those years. Demand for the printed Bibliography continues strong, and 111 copies of volume I, II, or III, as against 86 for last year, have been sent out.

Members of the Department have published eight papers and have thirty-three in press or in progress.

REPTILES AND AMPHIBIANS

G. KINGSLEY NOBLE, Curator

The year 1926 has been one of marked progress in both field and laboratory. The Douglas Burden East Indian Expedition made an extensive survey of Komodo and certain neighboring islands, obtaining a splendid series of the giant monitor, *Varanus komodoensis*. The year was the first enjoyed by the Department in its new quarters. Several important researches were brought to completion and others inaugurated. An advance over the record of recent years was made in the number of reptiles and amphibians obtained and accessioned. The exhibition program was carried forward and considerably facilitated by the discovery of new techniques for mounting.

Early in the year Mr. William Douglas Burden, a Trustee of the American Museum, organized and financed an expedition for the purpose of hunting the giant lizards of Komodo Island in the Dutch East Indies. The species, although the largest lizard in the world, was previously known from only a few skins in continental and East Indian museums. Very few collectors have ever been to the little chain of islands which stretch from New Guinea to Java, and Mr. Burden decided to make general collections in the islands visited. He included in his party Dr. E. R. Dunn, a herpetologist who had previously carried on field work for the American Museum, and Mr. Defosse, a big-game hunter and trapper of Indo-China. Mrs. Burden took charge of the photographic work. The Dutch East Indian government loaned the SS. "Dog" to the expedition and coöperated in many other ways. A large series of skins and skeletons of *Varanus komodoensis* were obtained and two adult specimens were captured alive and shipped to the New York Zoological Society. A remarkable motion picture of the lizards was secured and a detailed study of their habits made. The anatomical material has thrown considerable light on the relationships of the species, which may now be considered a relic of the Australian monitor stock that gave rise in Pleistocene times to such

monsters as *Megalania*, the fossil saurian, estimated to have reached thirty feet in length.

The general collections made by the Burden Expedition have also yielded interesting results. Several species new to science were obtained, and the ranges of several others considerably extended. Thus, Russell's Viper, a very poisonous Indian snake, was found on Komodo, although it had not been previously reported in any of the adjacent islands.

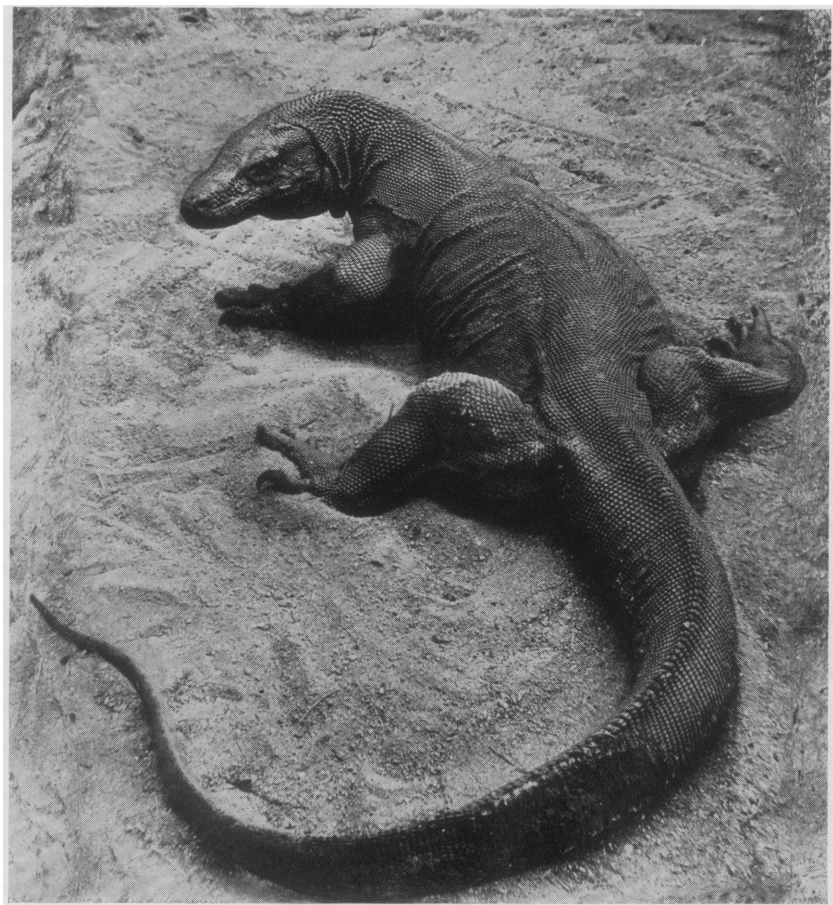
Samples of the rocks and vegetation found in Komodo were secured. These, together with the photographs and color sketches made in the field, will be used in reproducing in the new Hall of Reptiles a scene from the home life of the lizards.

Although the Museum has a very extensive collection of American salamanders, there are many facts still to be discovered about these interesting creatures. This year Mr. Jay A. Weber made a special study of the Adirondack species and succeeded in working out the life history of one rare form. The Curator made a short trip to the mountains of western North Carolina to study the abundant salamander life of that region. A paper now in press, "The Plethodontid Salamanders, Some Aspects of Their Evolution," was the outcome of this work.

Four main investigations were carried on by the Department during the past year. In each of these, satisfactory progress was made.

Research Results The chief studies of the Curator during his ten years' association with the Museum have been concerned with the evolution and distribution of the frogs and toads. This year he published three papers in this field: "An Analysis of the Remarkable Cases of Distribution Among the Amphibia, with Descriptions of New Genera"; "The Pectoral Girdle of the Brachycephalid Frogs"; and (with H. W. Parker of the British Museum) "A Synopsis of the Brevicipitid Toads of Madagascar." These and a series of other papers which the Curator has in hand pave the way for a clear understanding of the evolution of the order.

The second general problem was concerned with the life histories of the Amphibia. During the year the Curator pub-



**DEPARTMENT OF HERPETOLOGY
GIANT LIZARD OF KOMODO ISLAND**

Collected by the Douglas Burden East Indian Expedition

lished four papers on this subject: "The Long Island Newt: a Contribution to the Life History of *Triturus viridescens*"; "The Hatching Process in *Alytes*, *Eleutherodactylus* and Other Amphibians"; "The Importance of Larval Characters in the Classification of South African Salientia"; and "The 'Buccal Brooding Habits' of the African Tree Frog, *Leptopelis brevirostris*."

The third field of endeavor was concerned with the evolution of a highly "adaptive" structure in the Amphibia, namely, the adhesive disks on the toes of tree frogs. A histological examination of these disks by Miss M. E. Jaeckle and the Curator has shown that they are more complex structures than previously supposed. Nevertheless, they arose in phylogeny before certain groups became arboreal and have been retained by others which have reverted to the terrestrial habit. Arborealism in the Amphibia seems to have resulted from the chance association of a fully established mechanism with a particular habitat. A summary of the paper has been published in the *Anatomical Record*.

The Department has continued its experimental studies of previous years, realizing the great importance of this method of approach to any biological problem. It has been found possible, by grafting portions of the male gonads in adult female salamanders, to produce certain male structures, although no visible rudiments of them were previously present. By other operations it was found possible to cause one type of tooth to be replaced by a wholly different type. A summary of this work has also been published in the *Anatomical Record*.

The Department in its research activities frequently coöperates with the various research institutions in New York. This year one phase of this coöperation was given official recognition by the appointment of both Professor Bertram G. Smith of Bellevue Medical College and Professor Alden B. Dawson of New York University to the honorary positions of research associates in the Department. Professor Dawson has made use of the Department's collection of cleared specimens in his study of epiphyseal fusions, while Professor Smith has materially assisted the Curator's researches on the anatomy and life histories of the Amphibia.

Additions
to the Staff

The Curator regrets to record the resignation of Miss M. E. Jaeckle, who has been a technical assistant and bibliographer in the Department for the past two years. Her work is being continued by Miss S. Davis, a graduate of Radcliffe College.

The arranging and installing of groups in a new hall require the combined efforts of many departments of a museum. A rapid advance has been made during the year in the new Hall of Reptiles. All the habitat groups are now fitted with slanting glass fronts held in steel frames. The floor groups have had their frames painted a bronze color. The metal cases and stone walls will give the new hall an atmosphere in keeping with the character of the creatures portrayed.

A series of murals for the top of the habitat group cloister in the new hall was begun by Mr. Francis L. Jaques. One mural portraying a pair of crocodiles near their nest has been completed. The painting also includes a small group of *Basiliscus* dashing off over the surface of the water in their peculiar manner.

A series of skeletons was prepared this year for the new hall. These include a Green Turtle, a Python and several lizards. It is planned to supplement our series of dried skeletons by a series of cleared preparations in the new hall.

A very interesting floor group was completed this year. An enormous King Cobra, the largest poisonous snake, was mounted as if emerging from the edge of a jungle. A mongoose, the foe of most snakes, crouches behind a stone apparently realizing his inability to cope with this enormous serpent. The King Cobra is also a snake hunter, and it is highly appropriate that these two hunters should meet face to face on the edge of the jungle.

Several major exhibits were begun during the year. These include a sea snake group and a walking alligator. The latter was mounted by the Akeley manikin method and represents a new advance in reptile exhibition work. The giant tree frog group begun several years ago was practically completed by the close of the year.

A very important advance in exhibition methods was made early in the year when Miss Jaeckle and the Curator discovered

that the infiltration methods of the histologist could be successfully applied to the mounting of whole specimens. A large series of toads, salamanders, lizards, turtles, and snakes have been infiltrated with paraffin. By using special fixatives and dehydrating oils, the original colors of the specimens have been retained and no shrinkage resulted. The completed preparations look more lifelike than the most successful casts. They owe their realism to the fact that they are the real animals both externally and internally, the skin and viscera being retained in place and merely infiltrated with paraffin. A synopsis of the method has been published in *Novitates*, No. 233, where it will be available to other museum curators.

Two small groups illustrating the protective coloration of the Copperhead and the Sidewinder have been prepared by the infiltration technique with the cooperation of the Department of Preparation. It is planned to continue this series of grouplets, which frequently have greater teaching value than larger groups, for they illustrate only single ideas.

During the past year, 7,505 reptiles and amphibians were received and accessioned. Of these, 4,785 were amphibians and 2,720 were reptiles. The total number is more than twice as many specimens as were accessioned during 1924, and over 3,000 more than were secured during 1925. The number received through gift is 210 reptiles and 319 amphibians; through exchange, 23 reptiles and 137 amphibians; through purchase, 23 reptiles and 340 amphibians; through expeditions, 2,464 reptiles and 3,989 amphibians. Obviously, the great increase has been largely due to the Museum's expeditions.

The most noteworthy accessions come from two sources. The Douglas Burden East Indian Expedition made notable collections in Komodo, Sumbawa, and Wetar in the Dutch East Indies. A detailed report of these specimens is given in the accession list. The Central Asiatic Expeditions secured a very large collection from southeastern China. Mr. Clifford Pope was especially successful in obtaining the eggs and tadpoles of many rare Amphibia. He is planning a report on this important collection during the coming year.

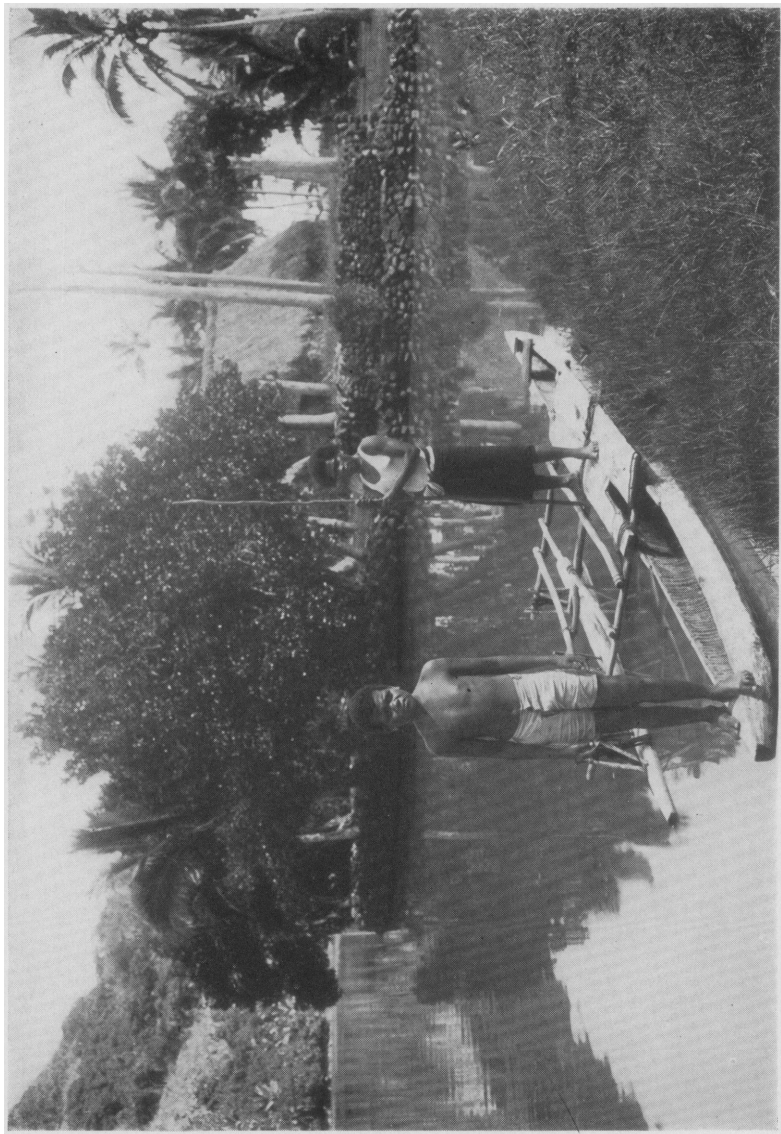
BIRDS

FRANK M. CHAPMAN, Curator-in-Chief

The year 1926 has been notable in the history of the Department for the generous support we have received from friends of the Museum. Although our budget for field work has been reduced to the minimum, there never has been a time when we have been so actively engaged in exploration. Through the coöperation of Mr. Harry Payne Whitney, Mr. Henry W. Sage, Mr. Harvey S. Ladew, Mr. William A. Rockefeller, Dr. Evan M. Evans, Mr. J. Sanford Barnes, Mr. Frederick F. Brewster, Mr. Jesse Metcalf, Mr. George Palmer Putnam, Mrs. E. M. B. Naumburg, and Mr. Ludlow Griscom, as will be shown in detail later, we have been enabled to maintain expeditions already in the field or to despatch new ones.

We have also enriched our collections to an unusual degree through exchanges in large part resulting from Dr. Murphy's visits to European museums.

Field Work **WHITNEY SOUTH SEA EXPEDITION.** Shortly before the beginning of 1926, the Whitney Expedition began operations in the New Zealand section, and during the course of four months' work made a representative collection of marine and insular birds. It includes sea birds not previously represented in any museum by more than one or two specimens, and will enable us to define the systematic status and ranges of certain species of albatrosses, petrels of the genus *Pterodroma* and other rare forms. Curious and interesting land birds, such as rails, resident snipe, parrots, etc., are also included. The bulk of the specimens in this collection came from the Chatham Islands and the more southerly outliers of New Zealand, and from islets close to the New Zealand mainland. The expedition thence cruised northward in the schooner "France" to the New Hebrides whence we have received several shipments, including many species new to our collections. The New Hebrides were to be followed by the New Caledonia group, where Mr. Rollo H. Beck, who from its inauguration in 1920 has led the expedition so effectively, is doubtless already at work.



DEPARTMENT OF ORNITHOLOGY

A FIJIAN SCENE

The Whitney South Sea Expedition has included some fifty islands of the Fiji group in its ornithological survey

Expedition supported by Mr. Harry Payne Whitney

RUWENZORI-KIVU EXPEDITION. The expedition to East Africa, led by Associate Curator Chapin and Mr. De Witt Sage, with, for half a year, the cooperation of Mr. Frank Mathews, is not expected to return until the spring of 1927. It has thus far achieved all its objectives, including the studies and collections for a Faunal Habitat Group from the Kidong Valley. This material, as well as valuable motion picture film, is now in the museum.

HARVEY S. LADEW EXPEDITION. In January, Mr. Harvey S. Ladew, accompanied by Mr. G. H. H. Tate, of the museum staff, left for Bolivia; the expedition remained in the field until June. The area explored lay between La Paz and the humid Tropical Zone at the base of the Andes. In making this faunal section, representative forms of birds and mammals, photographs, sketch maps, and data were secured which will be of much value in defining the boundaries of the life zones of this region. The work is therefore directly connected with our biological survey of the Andes. A small but fairly complete collection was also made at Arequipa, Peru.

THE BARRO COLORADO EXPEDITION. Acting under the Evan M. Evans Fund, Curator Chapman, with Francis L. Jaques, artist, and Raymond B. Potter, preparator, both of our Department of Preparation, spent the first six weeks of the year on Barro Colorado Island in the Canal Zone, making studies and collections for a Faunal Habitat Group to represent the bird life of the humid Tropical Zone in America. Not only is this locality well adapted by nature for our purpose, but the laboratory of the Institute for Research in Tropical America, which is situated there, gave us exceptional facilities for the unusually complicated work connected with the making of studies for the reproduction of tropical vegetation. Our collections, weighing over 3,000 pounds, were transported to the United States by the Panama Railroad and Steamship Line free of charge. It is hoped that this group, the most difficult that the Bird Department has attempted to produce, will be completed during the coming year. It will form the first of a series designed to represent the major faunal areas of the world.

THE PERUVIAN COAST EXPEDITION. After completing his work on Barro Colorado, Mr. Jaques, acting under a fund supplied by Mr. Frederick F. Brewster, proceeded to Callao, Peru, to make field sketches of coastal birds and their haunts, on which to base colored illustrations for Dr. Murphy's report on the Brewster-Sanford Collection of the marine birds of South America. The convincing authenticity of the resulting paintings is sufficient proof, if any be required, of the importance of giving an artist opportunity to base his work on original observations. Facilities for work were extended, as heretofore, by Mr. Francisco Ballén, head of the Peruvian Guano Administration, and a Life Member of the Museum.

THE ROCKEFELLER HUDSON BAY EXPEDITION. Late in May, Mr. William A. Rockefeller, accompanied by Mr. Raymond B. Potter, of the Museum's staff, left on an expedition for Hudson Bay from which they did not return until September. Their specimens of more northern breeding birds made an especially desirable addition to our collections heretofore weak in the breeding plumages of the species secured.

THE NORTHWESTERN BRAZIL EXPEDITION. Under the patronage of Mrs. Elsie M. B. Naumburg, Research Associate, Mr. Emil Kaempfer has been making collections in Piahy and Maranhao, Brazil, whence we have previously had fewer specimens than from any other part of South America. About 1,200 specimens have already been received, including many species either new to or before barely represented in our collections. This material is not only of value in itself but it will be of much assistance in our studies of related forms.

THE AMERICAN MUSEUM GREENLAND EXPEDITION. While Mr. Harry C. Raven and Mr. Frederick Limekiller, the two representatives of the Museum taken by Mr. George Palmer Putnam on his expedition to Greenland, devoted most of their time to collecting mammals, they nevertheless secured about 100 specimens of birds which make an acceptable addition to our small collection of breeding birds from northern North America.

THE EXPEDITION TO EASTERN YUCATAN. Through the support of the J. Sanford Barnes Fund and the hospitality of the Mason-Spinden Expedition, Assistant Curator Griscom was enabled to

make a most productive visit to eastern Yucatan and Cozumel Island, from January to the middle of March. His collections contained several forms new to science, and an unusual proportion of others not before in the Museum. He also examined and compared the Island of Cozumel and neighboring coast of Yucatan with the object of throwing some light on the remarkable insular avifauna of Cozumel. The results of these studies have already appeared in *Novitates*.

THE METCALF MEDITERRANEAN EXPEDITION. In July, Mr. Jesse Metcalf, accompanied by Associate Curator Murphy, visited in his yacht "Wawaloam" the Balearic and Colombreres groups in the Mediterranean, securing a small but interesting collection of birds, a larger collection of fishes, 250 photographs, and 3,000 feet of motion picture film. Mr. Metcalf, with Mr. Ogilvie Gordon, who replaced Dr. Murphy after the latter's return, has since continued work in this field wholly new to us, visiting first the island of Alboran and then Madeira, Porto Santo, and the Desertas. At all these localities they obtained specimens of birds and other animals, including several species of much desired petrels and shearwaters.

THE WEST PANAMA EXPEDITION. Mr. Ludlow Griscom continued to maintain Mr. Rex Benson in the mountains of Veraguas during the first part of the year. Later, under the J. Sanford Barnes Fund, Benson visited the heretofore unexplored Caribbean lowlands. He has secured species new to science, and others which afford much new information in regard to the distribution of life in this region. They therefore materially advance our ornithological survey of Panama.

THE PERUVIAN EXPEDITION. Our appropriations have fortunately permitted us to continue the important work of Mr. Harry Watkins in Peru. During the ten years he has represented the Museum, this experienced, careful collector has never failed to carry out his assignments, leading from one end of Peru to the other, from the Pacific to the Amazon, from sea-level to snow-line. His work during the past year has been of exceptional importance, resulting, among other things, in the final discovery of the southern limit of forest-growth on the Pacific slope of the Andes northeast of Pacasmayo. The col-

lections from this place are of such exceptional interest that they will be made the subject of a special paper.

THE UPPER AMAZON EXPEDITION. The Olallas, our native Ecuadorian collectors, have continued to send us large collections from the lower Napo, the first to be accompanied by satisfactory data which have come from that region. They are now on the Peruvian Amazon, an area before unrepresented in our series and a knowledge of which is essential to our continued studies of South American birds.

VENEZUELAN RECONNAISSANCE. When returning from Panama, Curator Chapman landed at La Guayra and devoted the better part of a month to a reconnaissance extending from Caracas to Valencia, and from the plains of the Orinoco through the Lake Valencia region over the Cordillera north of Maracay to the shores of the Caribbean. Ground was covered rapidly in a Ford car, and information was secured in regard to the limits of faunal areas which could be obtained only by field experience. Our work was greatly facilitated by the hospitality and co-operation of Mr. William H. Phelps, of Caracas.

CENTRAL ASIATIC EXPEDITIONS. From the Central Asiatic Expeditions, we have received 161 birds collected by Mr. Walter W. Granger. It is a source of regret to the Department that the personnel of this expedition does not include an ornithologist.

From these expeditions we have already received some 11,000 specimens. Other collections are on the way or in the field awaiting shipment.

Extra- Departmental Activities	As museum delegates, Drs. Chapman and Murphy attended the International Congress of Ornithologists held at Copenhagen, May 24-29. Both presented technical papers and, on one evening, popular addresses illustrated with motion pictures at a theatre secured by the Congress for the purpose.
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Dr. Chapman went thence to London where he lectured before the Royal Geographical Society on "Darwin's Chile," and presented papers before the Zoological Society and British Ornithologists' Club.



DEPARTMENT OF ORNITHOLOGY

BARRO COLORADO ISLAND

Studies and collections made here for a Faunal Habitat Group of the humid
Tropical Zone in America

Expedition supported by Dr. Evan M. Evans

Dr. Murphy, after leaving Copenhagen, visited museums at Stockholm, Upsala, Berlin, Frankfurt, Geneva, Palma, London, Tring, and Oxford. At the latter place he attended the meeting of the British Association for the Advancement of Science, presenting papers before the sections of Zoology and Geography.

At the Forty-Second Annual Congress of the American Ornithologists' Union, held in Ottawa, October 9-12, the Department was represented by Drs. Chapman, Murphy, and Dwight, Mr. Griscom, and Mrs. Naumburg, who presented a total of seven papers.

Among the more notable gifts which we have received during the past year is a collection of 1,400 well-prepared North American birds, a bequest from the late Mr. Lewis B. Woodruff, several rare parrots (including our first specimen of Spix's macaw) from Miss Louise Washington, collections from Greenland and Mexico from Dr. L. C. Sanford, a one-wattled cassowary and other desirable birds from Louis Ruhe, and the nest, eggs and two specimens of the guacharo (*Steatornis*) from Miss Gloria E. Hollister.

We have also to thank the New York Zoological Society for their continued kindness in sending us the birds that die in their aviaries, including specimens of the King and Galapagos penguins, Senegal goose, Bourke's parakeet, ringed teal and others rare in themselves or valuable for dissection.

The growth of our collection gives us an increased amount of material for exchange, and through this medium we have secured numbers of species and some genera not before contained in the Museum; notable among these is a paratype of the recently discovered remarkable Cuban wren, *Ferminea cerverai* Barbour, of which the Museum of Comparative Zoology has let us have one of the five known specimens. We have also received valuable exchanges from the British Museum, Berlin Museum, Royal Museum at Stockholm, and from Mr. E. Lehn Schiöler at Copenhagen.

Our purchases are restricted to a few especially desirable specimens, it being our policy to use the limited fund available to advance our explorations in the field.

With the exception of the more recent accessions, all specimens received have been catalogued and arranged for reference.

Care of Collections The Brewster-Sanford collection of Tubinares has been completely reorganized. It now occupies one entire room and is believed to contain the most complete existing collection of the birds of this group.

The Sanford collection of North American birds has also been completely rearranged and now serves as our first series reference collection of the birds of our own country.

The very large amount of manuscript in the hands of Editor Lutz awaiting publication has served in a measure to discourage us from adding to it, and our time has therefore been chiefly devoted to caring for and building up the collections.

Dr. Chapman, with the valuable assistance of Mr. Miller, and particularly of Mrs. Fraser, acting as departmental editor, has seen his 800-page Bulletin on Ecuador through the press, and is now occupied with some of the many tasks attention to which concentration on this larger work has of necessity postponed. This includes descriptions of new birds and a study of Mutation in *Saltator aurantiurostris*.

Dr. Murphy is giving all his available time to his monograph of the marine birds of South America, comprising the Brewster-Sanford Collection.

Mr. Griscom has prepared a report on the birds of the Mason-Spinden Expedition and has also written a 3,000-word article on the birds of Central Park for the *New York Times*.

Mr. Miller has given the greater part of his time to examination of birds received in the flesh from the New York Zoological Park and from other sources. Thorough investigation of the wing pterylosis and other external features has been made, also examination of the principal internal characters used in classification, as the carotid arteries, ambiens muscle and the viscera. More birds have arrived in the flesh than ever before, and of parrots alone more than sixty specimens have been studied.

Mrs. Naumburg has continued her studies of the birds of Matto Grosso, Brazil.

In addition to the Curator's 800-page volume, "Distribution of Bird Life in Ecuador," the Curator and Publications his staff have published ten papers based on their researches.

The extremely cordial relations existing between this department and the corresponding departments of other museums, both in this country and abroad, have promoted not Cooperation with Other Museums alone advantageous exchanges, but have made our respective collections mutually available for study. During the year we have loaned approximately 1,000 specimens, and our requests for material for examination have always been promptly honored. We have also had the pleasure of providing some of our colleagues with material for study in the Museum, including Mr. Stanley Ball of the Bishop Museum of Honolulu, and Mr. W. B. Alexander, lately of Melbourne, Australia.

As usual a large part of the time of the staff is consumed by visitors to the department. Much thought has been given to this subject, and annotated lists have been kept, giving the name of the caller, object and time of his visit. The Bird Department as a Bureau of Information As a result of a study of these lists, we have come to the conclusion that any steps reducing the number of our visitors will also reduce the value of the department to the public. Outside of purely personal calls, few persons visit the department without some legitimate object. Interest in birds is now so general and the relations of birds to man are so varied that our calls for information are correspondingly numerous. Not only do they reflect the ever-growing interest in birds, but they are also a measure of the closeness of our contact with the public that it is one of the principal aims of the Museum to serve. Until, therefore, we have men on our staff whose first duty it will be to meet the endless requests of the public for information, we must expect to devote no small amount of our time to supplying the demand which we have helped to create.

MAMMALS

H. E. ANTHONY, Curator

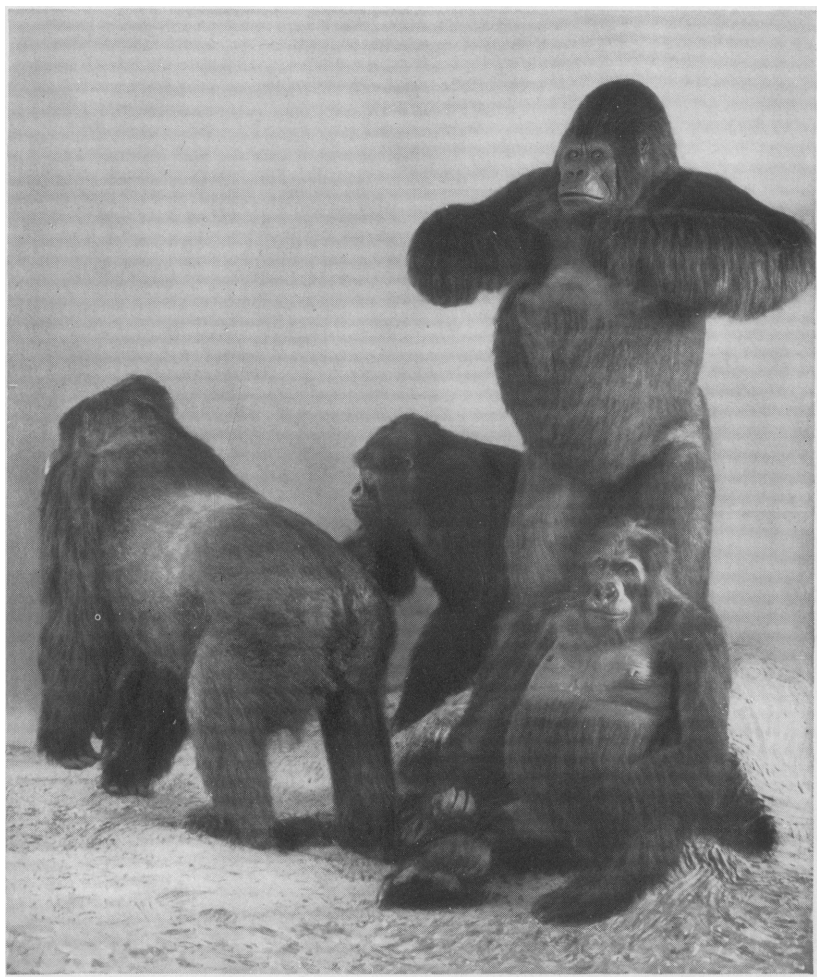
The most important features in the report of the Department of Mammals for 1926 are the completion of groups for exhibition purposes and the addition of valuable material to the study collections. Although it has been the policy to cut down on Museum expeditions, and there have been no department funds available for this purpose during the year, several important expeditions have, nevertheless, taken the field because of the generosity of friends. Early in the year Mr. Harvey S. Ladew took with him Mr. G. H. H. Tate for an extended trip into the Bolivian Andes and donated the results of the expedition to the Museum. Mr. William J. Morden and Mr. James L. Clark have been in Asia for most of the year on an expedition for *Ovis poli*. This enterprise is financed by Mr. Morden. In February, Mr. Anthony took a party into Porto Rico and the Virgin Islands. This work was made possible through a grant from the New York Academy of Sciences and a generous gift by Mrs. James H. Ottley. The department received specimens of Narwhal, Walrus, and Seals from the American Museum Greenland Expedition, which was financed and conducted for the American Museum by Mr. George Palmer Putnam. In December, Mr. Anthony left for the Egyptian Sudan as a Museum representative on the Taylor Sudan Expedition, which is financed by Mr. Irving K. Taylor.

At the close of the year, the Department of Mammals suffered the loss of a staff member through the death of Carl E. Akeley.

Carl E. Akeley The passing of Mr. Akeley at the very moment when the consummation of his great plans for the African Hall lay within his hands is especially sad. Fortunately, he had carried his plans to the point where a successful outcome is assured, and the completed project will be a fitting memorial to the high artistic ideals of Mr. Akeley.

Mr. Ladew and Mr. Tate left on January 7 for Peru and Bolivia. Mr. Ladew wished to see as much as possible of South America, but desired to accomplish more than the usual tourist achievements, so he decided to take with him a Museum representative to collect mammals, birds, plants, etc. In order to have more time for the

**Ladew
Bolivian
Expedition**



DEPARTMENT OF MAMMALOGY

THE KIVU GORILLAS

Specimens collected and mounted by Carl E. Akeley for the Gorilla Group
in the African Hall

collection of material, Mr. Tate did not accompany Mr. Ladew on all his moves, especially if Mr. Ladew was visiting some region that had little biological interest. Large and valuable collections were made on the Andean slope eastward from Sorata, and also in the Unduavi Valley, and the party brought back 625 mammals, 246 birds, and 1,500 sheets of plants. These collections are from regions not hitherto represented in the department series and form a most valuable accession. Undoubtedly there are many species new to science, and a preliminary paper describing two new rodents has already been published.

An important expedition, made possible only through the interest and generosity of one of the friends of the Museum, is the Morden-Clark Expedition, which has been in Asia for most of 1926. Mr. William J. Morden, who has hunted large game in several continents, wished to collect specimens of that most spectacular of all wild sheep, *Ovis poli*, Marco Polo's sheep. He offered to make his trip a Museum expedition and took with him Mr. James L. Clark, head of the Department of Preparation. This expedition had not returned at the time this report was written, but letters received from the field state that the party has been exceedingly successful. A very fine series of *Ovis poli* was secured in the Pamirs, and these have been recently received at the Museum. While no record heads were taken, there are heads with horns of nearly 60 inches and there is ample material for a splendid group of this sheep.

This expedition had originally planned to join Mr. Andrews as he worked eastward in his summer's work, but the unsettled political conditions in China during 1926 prevented the carrying out of this plan. Mr. Morden and Mr. Clark determined to come out through Mongolia rather than return as they had come, through India. Latest reports indicate that they are well along on this itinerary and should reach New York in the spring of 1927.

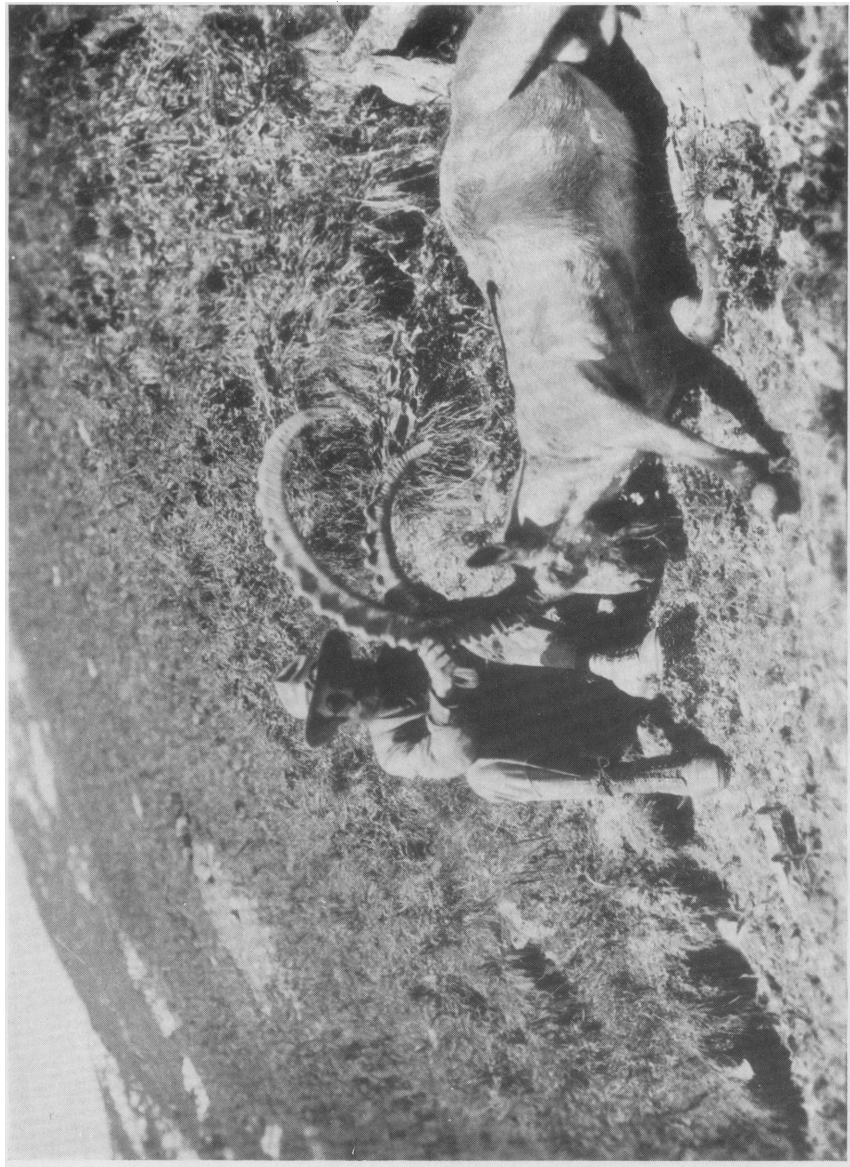
Besides the series of *Ovis poli*, the Morden-Clark Expedition has collected specimens of the Tien Shan Ibex, Gazelles, and other mammals of the great mountain plateaus of Turkestan and Central Asia.

Mr. Anthony, in 1916, worked on the mammals of Porto Rico as an assignment in the scientific survey of Porto Rico carried on by the New York Academy of Sciences and affiliated organizations and the Porto Rican Government. Later, when the scope of this survey was enlarged to include the Virgin Islands, it became desirable to carry on additional field work. The New York Academy of Sciences voted a grant for this purpose, in February, 1926. Mr. Gilbert Ottley volunteered as an assistant in the party, and Mrs. James H. Ottley made a very generous donation toward the field expenses. Mr. G. G. Goodwin, assistant in the department, was also a member of the party. The itinerary included Mona Island to the west of Porto Rico, Caja de Muertos along the south shore, Vieques and Culebra east of Porto Rico, and thence westward to each one of the American Virgin Islands and to Anguilla and St. Martin. Mr. Anthony returned to New York April 19, Mr. Ottley on June 8, while Mr. Goodwin remained in the field until July 5. Large collections were made of valuable material of both recent and fossil mammals, and these collections will serve as the basis for a third part of the report on the mammals of Porto Rico and the Virgin Islands.

Mr. Irving K. Taylor, a Life Member of the American Museum of Natural History, one of the Board of Managers of the New York Zoological Society, and a Director of the Explorers Club of New York City, planned his fourth trip to the Egyptian Sudan, and because of his great interest in the American Museum desired to make it a Museum expedition. He generously offered to take with him a Museum representative, and Curator Anthony was delegated to accompany Mr. Taylor. Mr. Taylor sailed from New York on December 4 to secure the necessary permits in London, and Mr. Anthony left on December 11 to meet Mr. Taylor in Italy, from whence the party will proceed to Alexandria and up the Nile to Khartoum, the base of operations. Mr. Taylor's previous experience in the Sudan will insure a successful expedition because of his knowledge of where game may be found and the best methods of transport, etc. Since the Museum has practically no material in its collections from the Egyptian Sudan,

**Taylor
Sudan
Expedition**

**Porto Rico-
Virgin
Islands
Expedition**



DEPARTMENT OF MAMMALOGY
TIEN SHAN IBEX
Morden-Clark Expedition to Turkestan
Financed by Mr. William J. Morden

the expedition will strive to secure as large collections as possible of mammals, birds, fishes, etc. This material will be collected primarily for the study collections, but should any exceptional group material be encountered it may later be decided to mount this for the proposed Hall of Mammals of the World. The party plans to be gone about six months and will work from the banks of the White Nile, ascending this stream on a boat chartered especially for this purpose. Later work may include a side trip up the Blue Nile and collecting along the Abyssinian foothills. The region of the Upper Nile is a very rich game field, and not only are all the commoner varieties of large game-mammals to be found there, but also unique species which are found nowhere else, such as the White-eared Kob.

During the year, the department received many specimens as gifts from individuals and from the New York Zoological Society. A detailed list of these gifts is given under the report of the Registrar,

Mrs. Glenn Stewart presented to the Museum a magnificent specimen of the rare Irish Wolfhound, Champion "Bally Shannon." This huge hound is being mounted under the supervision of Mrs. Stewart, who has made a long study of this particular breed.

The department continued to receive, during the year, specimens collected by contract with the Olallas in Peru. The collections sent in by these men in 1926 total 1,154 and give the department a valuable representation of the fauna of the lower Napo River region. Other purchases are listed in the report of the Registrar.

Although the progress made on mammal groups during the year is reported elsewhere by the Department of Preparation, attention is directed here to the number of exhibits which were completed or begun during the year.

HALL OF SOUTH ASIATIC MAMMALS

Sloth Bear Group—ready for exhibition, Sambur Deer Group, Sumatran Rhinoceros Group, Thamin Deer Group, Black Buck Group, Swamp Deer Group, Axis Deer Group, Tiger Group, Banteng Group: animals completed. Indian Buffalo Group, Gaur Ox Group, Indian Elephant Group, Indian Rhinoceros Group: animals being mounted.

All of the specimens in the thirteen groups listed are from the great collections made by Mr. Arthur S. Vernay and Colonel J. C. Faunthorpe in India and southern Asia.

Work has also progressed in the new groups for the proposed African Hall. The lion group was finished by Mr. Akeley, and the five animals for the gorilla group were also completed by him.

In addition to the mammals mounted for the Asiatic and African Halls, the groups of Steller's Sea Lion, Elephant Seal, and Fur Seal have been practically completed in the Hall of Ocean Life. Other installations in this hall include several skeletons of large cetaceans, those now completed being Sperm Whale, California Gray Whale, North Atlantic Right Whale, and Finback Whale.

The publications for the year have been rather restricted because of the absence of department personnel in the field. However, the Curator has published three papers, and Dr. Glover M. Allen one.

During the annual meeting of the American Society of Mammalogists at New York in April, Mr. Anthony was elected a vice-president of the Society. Dr. Glover M. Allen, who has been devoting part of his time to the identification of the mammals collected by the Asiatic expeditions, has been in Liberia for about half of the year on an expedition sent out by the Museum of Comparative Zoölogy, Cambridge, Massachusetts.

Curator Anthony has again served as Secretary and Treasurer for the Committee on the J. A. Allen Memorial Fund. The amount now raised stands at \$8,897.74, and with accrued interest will exceed \$9,000.00. We hope that the goal set for the Fund, \$10,000.00, will be attained during the coming year.

A number of mountable specimens were sent to Hermano Nicéforo Maria, of the Instituto de la Salle of Bogotá, whereby the Department of Mammals received in exchange several collections of Colombian mammals.

During 1926 the Department of Mammals loaned to the Museum of Vertebrate Zoology, Berkeley, Calif., 180 specimens of American Weasels; to the United States National Museum, 121 American bats.

COMPARATIVE AND HUMAN ANATOMY

WILLIAM K. GREGORY, Curator

If all adult Museum visitors could be asked which half-dozen exhibits had made the most vivid impression upon them, it is not improbable that the majority would mention Peary's meteorite, the colorful hall with the giant totem poles, the wolf group, the Hall of the Age of Man, the *Brontosaurus* skeleton and the paintings of the solar eclipse. From such exhibits, each of which tells a vivid story clearly and directly with a maximum of effect and a minimum of labels and accessories, the visitor derives a satisfying sense of nature's wonder and beauty, or some illuminating glimpse of nature's ways or of man's place in nature. The Department of Anatomy is especially ambitious to produce exhibits of this arresting sort, and it submits the "Rearing Horse and Man," the "Family Tree of Man" and the "Comparative Anatomy of the Human Skull" as examples of the quality of directness that it is striving for. In this connection the Department is preparing a series of exhibits dealing with the origin of the human body, for the Department of Anthropology.

There is another type of exhibit in which the Department also happens to be interested. It may be called an elementary geographic exhibit, the object of which is to give the visitor a vivid impression of some particular geographic region in its broader outstanding features. For the purpose of laying the foundation for such an exhibit, Dr. Gregory and Mr. Raven were sent to Australia in 1921, where Mr. Raven remained nearly two years, securing a splendid collection of Australian mammals. These, together with much material obtained in exchange from the principal Australian museums, would enable us to proceed at once with a well proportioned series of exhibits under the general title "Australia the Island Continent," provided adequate exhibition space were available. Meanwhile the first two units of the series, illustrating respectively kangaroos in full flight and "The Boomerang Throwers" are under construction. For assistance in planning these groups we are indebted to Dr. Edgar R. Waite, Director of the South Aus-

tralian Museum at Adelaide, who has recently visited the Museum.

The beautiful mounted skeleton of the trotting horse "Lee Axworthy," prepared chiefly by funds presented by Mr. Watson B. Dickerman, was completed and placed on exhibition during the year, and a very enjoyable reception was held on the occasion of its first public display, President and Mrs. Osborn receiving the guests.

By invitation of the palæontologist and the director of the Colorado Museum of Natural History, the Curator visited that Museum in August, and in collaboration with Mr. H. J. Field Cook prepared a report on their great collection of fossil rhinoceroses. Three weeks were spent with the Museum expedition near Mitchell, Nebraska, collecting Pliocene mammals and searching for further remains of *Hesperopithecus*. The fragmentary material secured there will be noticed elsewhere.

Associate Curator Raven of this Department was a member of the American Museum Expedition to Greenland, under the direction of George Palmer Putnam. A series of narwhals, including two foetal specimens, the smaller about ten inches long, were secured. Casts of the larger specimens were secured for exhibition in the Hall of Ocean Life, and the smaller specimens were embalmed for anatomical study. The brain of an adult narwhal is a most impressive object, which will be studied and described by the eminent neurologist, Professor Tilney.

Before starting on the Greenland expedition, Mr. Raven continued his studies on the classification and phylogeny of the great family of kangaroos, which comprises over one hundred species, and with the assistance of Miss Roigneau he prepared a large "Family Tree of the Kangaroos," which was exhibited at the meeting of the Society of Mammalogists held at the Museum in April. The model of the skull of the extinct giant kangaroo was completed by Miss Roigneau, and a number of important specimens for this exhibit were received in exchange from the Museums at Sidney and Brisbane, Australia.



DEPARTMENT OF COMPARATIVE ANATOMY
AMERICAN MUSEUM GREENLAND EXPEDITION

The "Morrissey" in Upernivik Harbor

Financed by Mr. George Palmer Putnam and Mr. Harrison Williams

The Curator served, together with Miss C. D. Matthew, as editor of the May-June issue of *Natural History*: "Past Races of Man." Several distinguished foreign scientists, including l'Abbé Breuil, Professor Othenio Abel of Vienna, Professor G. Elliot Smith of London, and Professor Raymond Dart of South Africa, placed the Museum under deep obligations by contributing brilliant articles to this number. Articles dealing with man's antiquity in Asia and North America were contributed by President Osborn, Dr. Goddard and Professor Loomis. In collaboration with Dr. Milo Hellman the Curator contributed to this number an article entitled "Crown Patterns of Fossil and Recent Human Molar Teeth and Their Meaning." Mr. Raven contributed to the same number an article on "The Stone Images and Vats of Central Celebes," while Professor J. H. McGregor, Research Associate of this Department, contributed a beautifully illustrated article on "Restoring Neanderthal Man." Dr. D. J. Morton, Research Associate, published in this number an important article on "Significant Characteristics of the Neanderthal Foot." The paper by Drs. Gregory and Hellman on the "Dentition of *Dryopithecus* and the Origin of Man" was recommended for publication by the Department of Anthropology early in the year, but owing to the congested state of the printing department in the Museum, a long delay would have ensued had not a number of friends and co-workers of the authors provided the means for printing the paper outside the Museum. The Department prepared an exhibit for the International Orthodontic Congress, and Drs. Hellman and Gregory presented papers there on the "Palæontology of the Human Dentition," which are being published in the *Proceedings* of the Congress and in the *American Journal of Physical Anthropology*. The remarkable skulls of Cretaceous mammals discovered by the Central Asiatic Expeditions were described in a joint paper by Dr. Gregory and Dr. G. G. Simpson of Yale University. The Curator's paper on the "Skeleton of *Moschops capensis* Broom" was published during the year in the *Museum Bulletin*. He also published a paper entitled "Some Critical Stages in the Evolution of the Human Dentition" in the *Journal of Dental Research*. A review of the living species of zebras under the title "The Horse in the Tiger's Skin" appeared in the *Bulletin* of the New York Zoological Society. Lectures were given on

various palæontological subjects at the American Institute, the Yale Palæontological Club and the Buffalo Club.

The New York Zoological Society and Mr. Ellis S. Joseph continued to supply the Department with important specimens for preservation in its study collections, which have been well used by specialists from the Yale, Johns Hopkins, and Columbia departments of anatomy and neuro-anatomy.

EXISTING AND EXTINCT RACES OF MEN

CLARK WISSLER, Curator-in-Chief

Several ideals guide the work of the Department, one of which is the ideal of educational and scientific service. The number of students of design giving serious attention to our collections steadily increases, constant use being made of the specimens on exhibition, and the more advanced students of the decorative arts making increasing demands upon our study material. The responsibility for meeting these demands falls chiefly to Honorary Curator Charles W. Mead, who maintains his unfailing interest and enthusiasm for the study and appreciation of primitive art. It is apparent, however, that this important service will shortly call for additional personnel to adequately meet the requirements of this growing and desirable use of the Department's collections. Further, many Museum visitors are interested in other aspects of primitive life and call upon us continually for guidance in the use of anthropological literature, and in many cases seek expert information from the specialists of the staff. It should be added that the name of the Museum is now so universally known that many of these requests come by mail, especially from scout and similar recreational organizations, interested in the facts of aboriginal life in prehistoric America. Finally, mention should be made of college and university classes, formally conducted through our exhibition halls, as well as service rendered to visiting anthropologists. In these several ways a considerable portion of the time of the staff is taken each week, but it is service well worth rendering, and is the chief justification for a Department of Anthropology in a public museum.

The collections of the Department were increased by sixty-two gifts from as many donors, a full list of which will be found in the accession list. Of these many generous donations, mention may be made of an extensive series of pottery, stone carvings, and other archæological objects from Panama, presented by Mr. Clarence L. Hay. In memory of the late Ludwig Stross, a fine general collection of armor and

weapons was given by Mrs. Ludwig Stross. This collection contains many rare pieces and will go far to complete our world series of weapons. A collection of Samoan specimens, gathered by Messrs. David and Robert L. Flaherty, while making films for the motion picture known as "Moana," was donated by the producers, Messrs. Adolph Zukor and J. L. Lasky. From the estate of William Andrus, was received by bequest an archaeological collection from the Gila River country, New Mexico, comprising more than eight hundred pieces of pottery and a large series of other artifacts. Finally, while collecting archaeological materials at Camp Verde, Arizona, Mr. Earl H. Morris received as a gift for the Museum a small series of stone implements and other objects from a primitive salt mine, donated by Mr. George W. Campbell. Many other timely gifts are noted in the complete list, and we take this opportunity to express our appreciation to these many donors, who, by their continued generous support, are rapidly making the Museum a place of reference for the student of primitive life.

Though the Department has no special fund for the purchase of needed specimens, a few acquisitions have been made from the resources at hand, the most important being an old Salish Indian blanket of mountain goat wool and dog hair, a weaving art now extinct and of which but a few specimens are known. Of field collections made for the Museum, mention may be made of a large archaeological collection from the Central Asiatic Expedition, N. C. Nelson; the Ogden Mills Archaeological Expedition to Arizona, Earl H. Morris; the Mrs. William Boyce Thompson Expedition, Arizona, Erich Schmidt; and an ethnological collection from Labrador, Frank G. Speck.

The final mural panel, painted by Mr. Will S. Taylor, is ready for mounting in the Jesup North Pacific Hall. This mural will complete the series for that hall, which presents, in geographical sequence, typical phases of Indian life associated with the objects on exhibition. The other chief addition to our ethnographic exhibition series is a group of small models presenting geographical types of primitive housing and also the gathering and preparation of foods. A few additions have been made to the exhibit for racial types, and in

**Museum
Work**

the Asiatic Hall Mr. S. Ichikawa is revising the casing for the Japanese section, preparatory to the installation of a new exhibit. These, with certain minor changes in our ethnographic exhibits, comprise the exhibition work of the year.

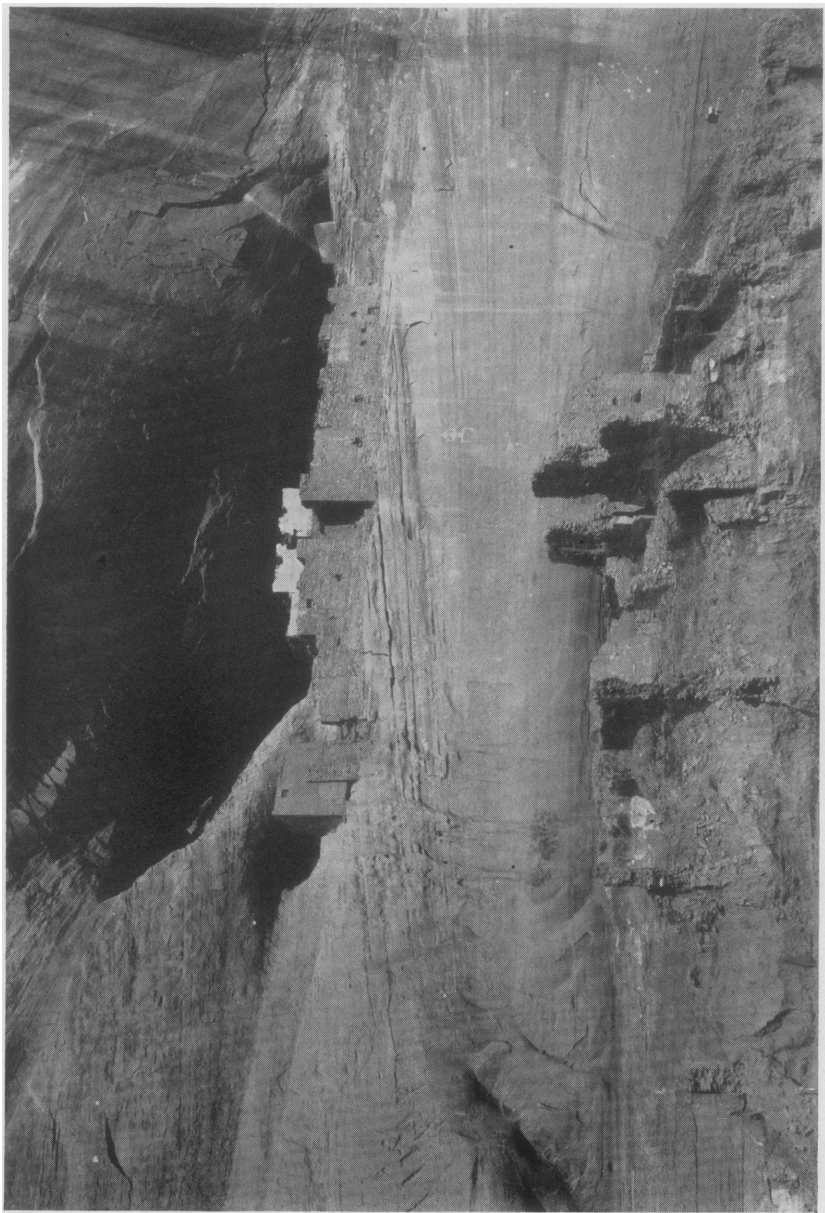
The constant inflow of collections is resulting in a state of congestion in our storage and study quarters. To provide additional space, three laboratory rooms have been double-decked, and as soon as casing is available, this space will take care of the archaeological material now awaiting placement, but will not accommodate future accessions. Also the stacks for our anatomical collections are filled, leaving no room for expansion. It is thus apparent that the future usefulness of the collections in archaeology and anatomy is dependent upon our building program.

Plans are being matured for the new Races of Man Hall, to contain a section for comparative anatomy in general, another for embryology and growth of the human body, and the remainder of the space to be devoted to exhibits for the living and extinct races of men. The exhibits in comparative anatomy, under the direction of Curator William K. Gregory, are well advanced, and Assistant Curator H. L. Shapiro is preparing detailed plans for the strictly anthropological section.

The exploration work of the staff during the year was exclusively archaeological, confined to three areas in Arizona and New Mexico. Three expeditions were sent out, generally supported by Mr. Charles L. Bernheimer, Mr. Ogden Mills, and Mrs. William Boyce Thompson, and it is a pleasure to report that each of the three projects was carried through according to schedule, each returned rich collections and important scientific results. While the above list of expeditions covers the field-work under the direction of the Department, it should be added that Associate Curator Nelson has served as archaeologist to the Central Asiatic Expeditions, spending the first half of the year exploring a section of the Yangtse River Valley, where he investigated many caves and village sites. The second half of the year was spent in exploration in Yunnan. For further information see the report of the Central Asiatic Expeditions.

For four successive years, Mr. Charles L. Bernheimer has equipped and led expeditions to the Southwest. This year his objectives were, first, to locate tracks left by prehistoric animals in the upper branches of the Segi Canyon; second, to traverse the many major canyons north of Navajo Mountain, west of Piute Canyon and east of Bridge Canyon, to determine whether these canyons empty their waters into the San Juan or the Colorado River; third, to locate a natural bridge of major size, reports of which had been received; fourth, to hunt for cliff ruins in Nockai Canyon and in the other canyons visited. The expedition was eminently successful; ruins of archæological interest were located and extensive prehistoric settlements found, accompanied by a very large refuse heap, offering opportunities for systematic research. In addition, some cliff ruins were located on Nasja Creek.

Last year, in response to an invitation from Mr. Ogden Mills, a plan was prepared for the exploration of archæological sites in Canyon del Muerto and the adjoining headwaters of the Rio de Chelly. The work of this season was in charge of Mr. Earl H. Morris, of the Carnegie Institution of Washington, assisted by Mr. Erich Schmidt of the Department staff. The field operations fall under two heads, a minor project, the examination of a prehistoric salt mine, and a major excavation project in Canyon de Chelly. The salt mine and a number of house sites in the immediate vicinity were explored. From one of these was obtained a collection of cotton cloth, one piece skilfully embroidered in an elaborate design. Stratigraphic work at these sites revealed the culture horizon of the salt mine as belonging to the early Pueblo period. The report on this project is ready for publication. The major undertaking was in Canyons del Muerto and de Chelly, the site chosen for chief exploration being the talus slope at the foot of the cliff beneath the well-known Casa Blanca ruin. There are two ruins here, one occupying a shallow grotto or niche some fifty feet up the face of the cliff, and a second one, directly beneath, on the floor of the canyon.



DEPARTMENT OF ANTHROPOLOGY

A CLIFF HOUSE IN CANYON DE CHELLY, ARIZONA

In excavating a refuse heap in the lower ruin, many fine textiles were discovered
Expedition financed by Mr. Ogden Mills

No attention was given to the upper ruin, Casa Blanca, other than to make a ground plan of it. The lower ruin is in danger of being washed away, together with the talus of refuse, rich in specimens. Consequently, this ruin was thoroughly explored. The stratigraphic study of the talus revealed the following sequence of cultures: At the bottom, an initial refuse stratum without potsherds; then layers containing sherds of Post-Basket Maker ware; above these, strata with Pre-Pueblo pottery; then others in which were fragments of early Pueblo pottery; and lastly, the foundations of the ruin above. A number of burials were excavated, unusually rich in pottery. All in all, the specimens yield this season was fully equal to that of last year.

In order to protect the remaining talus from the floods, the earth removed was thrown into a dike to divert the water from the foot of the talus and this dike reinforced with posts, wire and stones. This, it is believed, will prevent the talus from being carried away before it can be fully explored.

Beginning in 1925 and continuing through the first months of 1926, Mr. Erich Schmidt conducted archæological work near Superior, Arizona. The main purpose of the investigation was to link up the archæological remains found in the vicinity with the prehistoric culture periods of the Southwest as a whole. Two ancient rubbish heaps, one connected with Pueblo Grande, the second with La Ciudad, were examined in stratigraphic detail, resulting in the establishment of the following facts. These two Pueblos, and, in all probability, the majority of the prehistoric settlements of this region, were built by the makers of the well-known "red-on-yellow" pottery. The culture represented by these settlements and by their extensive ancient irrigation systems, flourished for a considerable period and then declined slowly. Toward the end of the period of decline, or perhaps after the indigenous culture had entirely passed, vestiges of another culture appear, which can be traced to the mountainous country to the east. This more recent culture is represented by the "black-on-white" pottery, or the Lower Gila polychrome type.

**The Mrs.
William Boyce
Thompson
Archæological
Expedition**

To Associate Curator N. C. Nelson of the Department staff has been assigned the archaeological work of the Cential Asiatic Expeditions, reported under another head. In brief, Mr. Nelson spent the first half of the year exploring a section of the Yangtse River Valley, examining numerous cave deposits and archaeological sites on the river terraces. The exhaustive character of this survey promises a fairly complete outline of the history of man in that section of Asia. The sites so far explored prove to be not earlier than the beginning of the Neolithic period and, in part, pre-Chinese.

Each member of the Department Staff is engaged in research upon Museum material. During the year the staff was strengthened by the appointment of Dr. Harry L. Shapiro, Assistant Curator of Physical Anthropology, and Dr. Margaret Mead, Assistant Curator of Ethnology, both appointments becoming effective in July. Our field staff for the season was greatly strengthened by the volunteer services of Mr. Earl H. Morris of the Carnegie Institution of Washington and by the close coöperation of Dr. A. V. Kidder, Chairman of the Division of Anthropology and Psychology of the National Research Council.

Curator Pliny E. Goddard represented the Department at the International Congress of Americanists in Rome, and while in Europe visited the more important anthropological collections. In the laboratories of the Department a number of investigations are under way, one important project consisting in preparing for publication anthropometric observations upon some eight thousand children in Hawaii and more than two thousand American Indian children, made by the late Dr. Louis R. Sullivan. At his death the data were left in the hands of the Museum in an incomplete state, but are now practically ready for presentation in printed form. This study will present a complete growth series for each observation, from six years to adult life, revealing many important racial differences. The data also cover observations upon Hawaiian crosses with Chinese and Europeans and also Indian-White crosses, upon the basis of which a study of inheritance will be made. The Misses Wini-

fred Smeaton and Bella Weitzner completed the tabulations of anthropometric data for the several race groups in the Hawaiian data referred to above, and the Curator prepared a manuscript on the adult Hawaiians. Assistant Curator H. L. Shapiro has carefully reviewed the Von Luschan collection of crania and is now engaged in a detailed study of the old European crania in the same. Earlier in the year he completed a study of head deformation. Dr. Milo Hellman, Research Associate in Physical Anthropology, has been investigating the dental and facial structure of the peoples of Africa, basing his work on the skulls in the Von Luschan collection.

Early in the year, Dr. Waldemar Jochelson completed a manuscript on "The Peoples of Asiatic Russia." When published, this will make a valuable contribution, since the greater part of the information presented is available only in the Russian literature on the subject. The manuscript has been edited and now awaits publication. Since April of this year, Doctor Jochelson has been working in the Museum, under a grant from the Carnegie Institution of Washington, preparing for publication the results of his archæological investigations in Kamchatka.

The staff members and their associates have published or prepared twelve papers, and it is a matter of great regret that funds are not immediately available for the printing of those awaiting publication.

DIVISION OF ASIATIC EXPLORATION AND RESEARCH

ROY CHAPMAN ANDREWS, Curator-in-Chief

When we first went to Mongolia in 1922, the region was supposed to be barren of fossils. In our three expeditions we have opened a new continent for palæontological research and have discovered and explored what are probably the richest fossil fields of the world.

The brilliant prediction made by President Henry Fairfield Osborn in 1900, that the Central Asian plateau would prove to be a great center of distribution for mammalian life, has been demonstrated beyond doubt by these researches.

Among the outstanding individual specimens are six skulls of the earliest known placental mammals, the dinosaur eggs, and superb dinosaur skulls and skeletons, the skeleton and feet of *Baluchitherium*, the skulls of *Andrewsarchus*, the largest known carnivore, the magnificent series of *Titanotheres*, and ancestral forms of eight groups of mammals.

No less important than the palæontological discoveries has been the splendid work of the geologists. They have identified twenty-three geological horizons, and it seems probable that we shall complete the geological column. Their discoveries have enabled them to prepare a superb volume which is now in press on the geology of Mongolia, which will doubtless become a classic. They have found that, because of the geological formations underlying the Gobi Desert, it is useless to search for oil or extensive deposits of minerals in this region. Such commercial products, however, may well be found in Mongolia along both the northern and southern edges of the Gobi.

Our topographers have made the first accurate survey ever attempted on the Asiatic plateau; carrying their levels from the Kalgan Railroad Station, they have run a line more than a thousand miles long, straight through the heart of the Gobi. Other surveys can now be started from this accurately determined traverse. They have also made careful maps of various type localities in Mongolia.

I have recently returned from London where I presented a report of the topographic work of the Expedition and of the new methods developed by Major Roberts, chief topographer. These methods promise to revolutionize rapid topographic mapping on reconnaissance. The maps have already been published.

Archæology was first added to the sciences of the Expedition in the season of 1925. In this single summer's work, very important evidences of prehistoric man in Central Asia have been discovered. There are brilliant prospects for startling discoveries in the realm of primitive human life in the future. In the coming three years of the Expedition, attention will be primarily directed toward the study of ancient man in Central Asia.

By the adoption of motor transport which has given the Expedition the advantage of speed over all previous explorers, we have been able to do about 30 years of work in three seasons. Moreover, this has opened Central Asia to motor transport, and to-day there are more than one hundred cars running through the grasslands of Outer Mongolia, bringing in valuable cargoes of sable skins and other commodities, where before we began our work, no cars had been used.

Up to the present, \$369,869.22 have been contributed for the work of the Expeditions. These subscriptions represent thirty states. I have promised that there will be no deficit at the close of the Expeditions' work. We will spend only as much money as we have in sight.

Last summer we were not able to get into the field because of the Chinese war. The entire Expedition was assembled in Peking, where we waited, expecting from week to week that we would be able to leave for Mongolia. The expenses of maintaining the staff in Peking necessitated a greater expenditure than would have occurred had we been in the field; nevertheless, the year has been closed without a deficit.

The loss of last summer's work makes it imperative to extend the work of the Expedition for another year, namely, until 1929.

I have been attempting to raise funds to meet this additional year since I have been in America. We shall need about \$60,000, of which \$15,800 have already been subscribed.

I hope that before I return to China in March, the entire amount will have been pledged.

There seem to be good prospects that we shall be able to get into the field next summer and continue our work.

THE LIBRARY

RALPH W. TOWER, Curator*

IDA RICHARDSON HOOD, Acting Curator

In closing the work of the year so ably launched by their Chief, the members of the department staff desire first to pay tribute to Dr. Ralph Winfred Tower, for twenty-three years Curator of Books and Publications. To his deep and comprehensive knowledge, his broad-minded policies, his tireless activity, much, if not most, of the growth of the Library is due. The monographs and periodicals so wisely chosen and carefully assembled all bear silent witness to his judgment and wide vision. Similarly the vast collections of the publications of learned societies show the broad and far-reaching circle of scientific exchange relationships which the Library has been able to establish under his stimulating leadership. Last and perhaps of most importance are the human attributes of Dr. Tower reflected in the Library. His absolute impartiality, his straightforward and dispassionate manner of dealing with situations, his rare and unfailing human sympathy and his compelling personality made for him a host of devoted friends. Much of the help rendered to readers and students has been vitalized by his personal interest in their particular problems. In the same way, because of his magnetic personality and his own enthusiasm for serving science, valuable friends have been made for the institution—friends through whose wisdom and genuine interest the Library has been enabled to assemble a collection of scientific material scarcely surpassed anywhere in the world.

It was such a friend who early in the year made it possible for the Library to acquire the rich collection of some twenty thousand volumes belonging to The New York Academy of Sciences. Mr. Ogden Mills by his generosity has permanently given into the possession of the Library these early learned and scientific series which have formed the foundation of the files as they stand today.

*Deceased, January 26, 1926.

The pragmatic test of usefulness may perhaps best indicate the growth of the Library under Dr. Tower's administration. When he was called to the institution in 1903, the collections were used almost entirely by the Museum staff itself; today books are borrowed by universities and scientific libraries all over the continent, urgent requests even being made over the long-distance telephone.

An important activity, a departure from the regular régime, was the arranging and preserving of the duplicate volumes and the entire stock of the many series published by the Museum. This has occupied an unusual amount of time, since during the past year the City has supplied new and adequate facilities which were urgently needed but which necessitated a removal and entire rearranging of thousands of books, calling the staff away from their usual duties. The completed task will be a most valuable asset for all time.

An ever-increasing Library problem is the lack of shelf space. The stacks, as they now stand, are full to overflowing, and since from three to four thousand volumes are added annually, it is apparent that the problem is a serious one. In several divisions books are stacked in temporary shelving, out of sequence, causing constant confusion.

The Library has again been fortunate in the acquisition of several rare and valuable works, among which may be mentioned the first edition of Gilbert White's *Natural History and Antiquities of Selbourne*, 1789, which was the gift of the Library's benefactor, Mr. Ogden Mills. Through the Anson W. Hard Library Fund have been acquired William Cheselden's *Osteographia*, 1733; Ludwig Heinrich Bojanus' *Anatome Testudinis Europaeae*, 1819-1921; Johann Wilhelm Meigen's *Systematische Beschreibung der Europäischen Schmetterlinge*, 1827-1832, and Giovanni Alfonso Borelli's *De Motu Animalium*, 1743. From the Frederick A. Canfield Estate the Library received as a gift that edition of Wilson's *American Ornithology* which contains the two volumes revised by George Ord. Among the notable series procured during the year are complete files of the *Travaux du Laboratoire de Recherches Biologiques de l'Université de Madrid*, *Bollettino della Società Geologica Italiana*, *Com-*

mentari dell' Ateneo di Scienze, Lettere ed Arti in Brescia and *Zeitschrift für Krystallographie und Mineralogie*.

The Museum has continued publication in its various series as follows:

The *Bulletin*, containing the larger scientific papers, Volume LII complete, consisting of three articles on ichthyology, lower invertebrates and ornithology respectively; Volume LV complete, devoted to Dr. Frank M. Chapman's monograph on *The Distribution of Bird Life in Ecuador*, and four articles of Volume LVI on palæontology, these papers totaling 1,096 pages, 618 text figures and 60 plates.

The *American Museum Novitates*, containing the shorter scientific contributions, thirty-eight numbers, 206-243, totaling 429 pages and 160 figures.

The *Anthropological Papers*, concerned entirely with the results of research conducted by the department, one paper on archæology, Vol. XIX, Part 6, and one on physical anthropology, Vol. XXVIII, Part 1.

The *Handbooks*, one important addition, No. 12, "The Story of the Minerals."

The *Guide Leaflets*, five new numbers: No. 62, "Mastodons and Mammoths of North America"; No. 63, "Indian Costumes in the United States"; No. 64, "Meteorites, Meteors and Shooting Stars"; No. 65, "The Art of the Lapidary"; No. 68, "Bird Hunting in Central Park." New editions have appeared of Numbers 38, 41, 49, 52, 57, and the *General Guide*.

Miscellaneous Publication: No. 21, "Nature Trails."

Natural History has completed its twenty-sixth volume.

Two reports of expeditions which have been running for some time in the *Bulletin* and *American Museum Novitates* have been assembled and bound with the titles: "The U. S. S. 'Albatross' in Lower Californian Seas, Cruise of 1911," dedicated to Mr. Arthur Curtiss James; "Preliminary Contributions in Geology, Palæontology and Zoology, 1918-1925—Central Asiatic Expeditions," Volume 1, Numbers 1-63.

PUBLIC EDUCATION IN THE MUSEUM AND IN THE SCHOOLS

GEORGE H. SHERWOOD, Curator-in-Chief

The American Museum of Natural History was conceived as an educational institution, and since its founding has made great strides toward the achievement of its ideals in this direction. The Department of Public Education is concerned chiefly with school children, striving in various ways to stimulate genuine interest in nature during the plastic years. The pupils are reached by illustrated lectures in the Museum and in the schools, by the loan of colored lantern slides and motion picture films, by the loan of circulating collections of nature study specimens, by docent service in the exhibition halls of the Museum, by lending collections to libraries, and by special instruction for the blind and sight conservation classes. This service reaches every Borough of the City, being limited to the Public Schools of Greater New York and to Private and Parochial Schools having memberships in the Museum. The following summary of statistics indicates the scope of this work:

Pupils using nature study collections.....	765,790
Pupils and teachers attending lectures.....	171,769
Attendance at library loan exhibits.....	32,592
Pupils viewing motion picture films.....	530,955
Pupils viewing lantern slides.....	<u>4,358,423</u>

Grand total of persons reached by educational activities. 5,859,529

The completion of the new School Service Building is the outstanding feature of 1926, part of the activities of the Department having moved into the new structure by the close of the year. This is a five-story building, 160 feet long by 90 feet wide on the first floor and 56 feet wide on the upper floors, and it occupies the southwest court. It was erected by the City of New York, and is entirely for the activities of the Department of Public Education of the American Museum in coöperation with the schools and other educational institutions.

For years the Department has been seriously cramped in quarters entirely too small for the work being done. Now we, at least for the time, have adequate space in a building



DEPARTMENT OF PUBLIC EDUCATION
LANTERN SLIDE ROOM IN THE NEW SCHOOL SERVICE BUILDING
In 1926, nearly 800,000 slides were loaned to the public schools

that is modern in its construction and equipment. The modern class-rooms furnish adequate reception for classes. The duplex auditorium gives a more elastic accommodation for lectures. With these facilities it will be possible to greatly increase our coöperation with the schools and other educational agencies.

Measures have already been taken to expand our work with the High Schools and with the Training Schools for Teachers. Opportunity will be given to pupil teachers to familiarize themselves with the Museum extension work.

The lantern slide, motion picture, and docent as well as the blind and sight conservation classes are already installed and are functioning in the new building. It will be only a few weeks until the whole of our educational activities will be housed in the School Service Building, where for work of this kind we shall have unrivaled facilities.

The Coördinating Council on Nature Activities consists of representatives from all of the largest national organizations of boys and girls interested in outdoor activities, including Boy Scouts, Girl Scouts, Camp Fire Girls, Woodcraft League, Pioneer Youth, and National Board of Y. W. C. A., and there are two or three members at large. The American Museum of Natural History brought these organizations together, and meetings have been held regularly at the Museum. Dr. Clyde Fisher, Curator of Visual Instruction, is chairman of the Council, and the Museum is also represented by Director George H. Sherwood.

The following projects were decided upon by the Council as desirable undertakings:

1. Coördinating the nature programs of young people's organizations.
2. Focusing attention in these nature programs on conservation of wild life and natural resources.
3. Coöperation with other established groups in furthering their programs for nature conservation.
4. Encouraging public schools and other educational institutions to include nature study and conservation in their courses of study.

5. Developing methods whereby we can give our best services to the public schools and similar institutions in furthering nature conservation.

6. Encouraging needed legislation in connection with our program.

7. Stimulating publication of bulletins dealing with the subject of nature appreciation and conservation.

8. Preparing programs by which we can best utilize the various contributions offered for the teaching of nature through nature workshops, nature trails, camps, gardens and museums.

9. Carrying on an educational campaign in nature conservation and promoting appreciation of its importance on the part of the general public.

The Council has been in existence a little less than two years, but can already point to a substantial beginning in definite achievements.

The most important aids in teaching are the real objects themselves, and yet the pupils of the schools of New York City would have extremely little opportunity of seeing and handling birds, mammals, butterflies, native woods, minerals and rocks, and other objects of nature if left to their own resources and to the equipment of the schools. In view of these facts, the American Museum began lending specimens more than twenty years ago and has continued this service ever since, thus furnishing material that is not readily available elsewhere. The specimens are delivered to the schools and called for after the loan period by the Museum automobiles, without cost to the pupil, the teacher, or the school.

Following are statistics for the past five years:

	1922	1923	1924	1925	1926
Number of collections in use	822	1,409	1,327	877	970
Number of schools in Greater N. Y. supplied	475	472	433	410	443
Number of pupils studying collections	1,648,608	1,491,021	1,247,914	977,384	765,790

When it is not feasible for the pupils to visit the real objects, and when it is difficult or impossible to bring the object to the class-room, then the greatest aid to teaching is a picture or a model. Of the former there are available both the still picture and the motion pictures. In teaching such subjects as glaciers, mountains, and other geographical features, as well as many other subjects, the lantern slide, colored in all cases in which there is color, is more valuable than the motion picture. It is in all cases an excellent supplement to the printed text, and in many cases more valuable than the printed page.

Since 1915, the American Museum has lent colored lantern slides to the schools in Greater New York that have requested them, and this branch of our service has grown more rapidly than any other. The slides are delivered and called for by Museum messengers without charge, as is done with the circulating collections of natural history specimens.

Following are statistics for the last five years:

	1922	1923	1924	1925	1926
Total number of borrowers	331	328	354	377	399
Total number of loans....	6,219	9,677	12,847	15,799	18,470
Total number of slides lent	320,298	440,315	598,132	697,171	808,789
Number of Public Schools borrowing	226	240	253	291	320
Number of slides lent to Public Schools	294,358	410,013	567,160	672,479	786,115

In our lantern slide service we have coöperated with the Bureau of Visual Instruction of the Board of Education of the City of New York by preparing and lending to the schools, groups of slides to be used in conjunction with the motion picture films supplied by this Bureau.

Our lantern slide service received in 1926 an appropriation of \$3,750 from the Board of Education, which amount, however, paid only a fraction of the cost of the service. Incidentally, this is the only branch of our service which received aid from the Board of Education.

This branch of the work is in charge of Mrs. Grace Fisher Ramsey, who is rendering most important service through her efficient work and her sympathetic understanding of teachers' needs.

The great need in our slide department is duplicate slides of the various subjects, because so many schools request the same material at the same time. Here is an opportunity for some friend of the Museum to render a most valuable service in education.

In the teaching of many subjects, the motion picture is of much greater value than the lantern slides or pictures in a book, provided that the motion pictures are good, that they are suitable, and that the story is well told. This branch of visual instruction has developed slowly because of the great cost of production in relation to the demand for its use, and on account of the great expense to the schools of projection equipment, booth, etc.

In building up our film library we have had two objects in view, first the preservation of important natural history records, and second the acquisition of material for service to the public schools. Our pictures have been secured by gifts from friends of the Museum, by members of the Museum staff on expeditions, and by purchase. The Museum has been most fortunate in securing such an excellent series of motion pictures. Our library includes "How Life Begins," by George E. Stone; "Nanook of the North," by Robert J. Flaherty; "Merin the Nomad," and other Mongolian pictures, by Roy Chapman Andrews and James B. Shackelford; "Trailing Wild Animals in Africa," by Martin Johnson; "The True North (Alaskan Adventures)," by Captain Jack Robertson; three sets of the Yale Chronicles of America Photo Plays; "Everyday Life of the People in France," by Mr. and Mrs. Philip H. Pratt; "Adventures of a Gray Squirrel," and other pictures of mammals, birds, and wild flowers, by Clyde Fisher; in addition to many reels presented by Mr. George D. Pratt and other friends.

As in case of the lantern slides, the Museum has coöperated with Dr. Ernest L. Crandall, Director of Lectures and Visual Instruction for the Board of Education, by lending to the Public Schools the Chronicles of America Photo Plays, included in the Bureau's course on United States History. Some natural history films have also been lent in the same way.

Following are comparative statistics for the last three years:

	1924	1925	1926
Total number of schools.....	31	48	91
Total number of reels lent.....	309	1,076	2,057
Total number of showings....	316	819	1,423
Total number present.....	115,849	333,097	530,955

Mr. and Mrs. Philip H. Pratt again volunteered their services and spent the summer in France continuing the photographic work which they had begun in the summer of 1925. They made substantial additions to their already considerable collection of still and motion pictures illustrating the home life and everyday activities of the people in the cities, towns, and rural districts of many parts of France. Additional pictures were secured of areas visited in 1925, including Paris, Normandy, central France, and the Pyrenees. New districts were covered, among which were Provence, Alsace-Lorraine, the war area, and other parts of France. This work, which brought such excellent illustrative material for our educational work, was made possible by the generous coöperation of M. Mongendre, French Consul General at New York, M. Tillier, General Secretary of the Compagnie Général Transatlantique, M. Joseph Perret, Directeur, Office Français du Tourisme, and M. Henard of the Affaires Etrangères.

Our motion picture films are lent to any public school in Greater New York that asks for them, and there is no charge. The service is carried on simultaneously with the lending of our lantern slides.

Lectures to school children in the Museum auditorium and in the schools continue to form an important branch of our educational work. These are planned to supplement the class-room work of the teacher, and they are always illustrated by colored lantern slides or motion pictures. Usually they are illustrated by both. Since the work is entirely optional, its value to the teachers is indicated by the following statistics. In all, 188 lectures were given, at which the total attendance was 141,815. These lectures include regular courses at Washington Irving High School for the pupils of the elementary schools of the neighborhood, courses at Public School 42, The Bronx, and courses at the New York Training School for Teachers.

The following statistics indicate the scope of the lectures to school children as well as all other lectures held under the auspices of the Museum:

*Attendance at Lectures
Within the Museum*

School Children's Course in Museum.....	91,569
Miscellaneous School Children's Lectures.....	12,176
Receptions for Training Schools.....	584
Blind Children, Teachers and Guides.....	4,891
Exhibition Hall Instruction.....	4,729
Miscellaneous Lectures	1,011
School Garden Association.....	3,239
Lectures to Children of Members.....	6,353
Lectures to Members.....	13,962
Total	138,514

Outside the Museum

Washington Irving High School.....	5,500
New York Training School for Teachers.....	2,400
P. S. 42, The Bronx.....	5,800
Walton Jr. High School (P. S. 30, Bronx)....	5,700
Public School 51, The Bronx.....	950
Miscellaneous Lectures to Schools.....	9,300
Miscellaneous Lectures	3,605
Total	33,255

Blind and Sight Conservation Classes have come to the Museum for talks which have been illustrated with objects or apparatus that can be handled by the children. Some of the subjects are as follows: "Story of a Piece of Coal," "Our Winter Birds," "Earth and Neighbor Worlds," "Our Fur Industry," "Boys and Girls in France," "The Story of Silk," "Animal Neighbors." The value of this work to the teachers is indicated by the comparative statistics, and these are the more impressive when it is realized what an ordeal it is for a teacher to bring a class of children to the Museum, and many of these classes come from Brooklyn, The Bronx, and Queens, as well as Manhattan.

	1924	1925	1926
Number of Schools sending classes....	31	35	35
Number of Classes sent.....	39	42	40
Number of Talks given.....	227	329	342
Total Attendance	3,492	4,822	4,891

In addition to work described above, large relief globes of the world are lent to these classes for use in their class-rooms. At the close of the year, 50 of these globes were in use in the Blind and Sight Conservation Classes of Greater New York.

We believe there is no service that we render which is more thoroughly appreciated, or which gives our staff members more genuine satisfaction than that for the children who cannot see or whose eyesight must be specially cared for. This work is in charge of Miss Nancy True, who has recently been appointed to the staff, and is made possible by the Jonathan Thorne Memorial Fund.

The Branch Libraries of the New York City system have continued to use natural history material from the American Museum. Collections of real objects, sometimes **Library Loan Collections** supplemented by large photographs illustrating many different subjects, have been lent. A few of the subjects represented are as follows: "Indians of the Eastern Woodlands," "Eskimos," "Birds of Our Parks," "Dolls from Many Lands," "Local Insects," "Mexico and the Mexicans." Books on the respective subject are placed on shelves near the exhibit during the loan period, and we are assured by the librarian that the reading on that topic is thereby stimulated. We think it is probable that persons become interested in the American Museum and its work through these loans. During the year, 18 libraries were served, the total number of loans being 48, and the exhibits were viewed by approximately 32,592 persons.

Guides have been furnished to all Members of the Museum who have asked for this service, and to teachers and classes from the Public Schools, Parochial Schools, and Private Schools of New York City and vicinity. This service has not been limited to Greater New York, but comparatively few of the requests come from beyond the confines of the City. During the year, 187 groups of persons comprising 4,729 individuals have received this service, the total number of guides furnished being 221. The Museum has never made any charge for the service of the guides.

**Docent
Work**

Students from the Colleges and Universities of New York City and more distant points visit the Museum in the pursuit of their studies in order to gather data and to collect illustrative material such as photographs. When guides are requested by college classes, we frequently call on members of the scientific staff to help us out, and this aid is always cheerfully given. Every year for many years, we have made at cost hundreds of lantern slides for teachers in schools, colleges and universities in this country and also occasionally in foreign countries.

**Work with
Colleges and
Universities**

Photographs to illustrate newspaper and magazine articles and text-books have been supplied in large numbers for many years.

**Newspapers,
Magazines and
Text-books**

In this way our collection of over 100,000 negatives is made available for education through these important channels. These photographs are furnished with the compliments of the Museum, with the understanding that credit will be given to the Museum in case of publication. This credit is a guarantee of the authenticity of the photograph.

The Department has coöperated, as in past years, with many other organizations having similar objects. Especially should be

**Coöperation
with Other
Organizations**

mentioned the Bureau of Lectures and Visual Instruction of the Board of Education of New York City, through its Director, Dr. Ernest L. Crandall. For several years, Dr. Fisher has been a member of the Curriculum Committee of this Bureau. Mr. Sherwood is a member of the Board of Directors of the School Nature League, while President Osborn is its Honorary President. This organization, which is rendering such valuable service to the schools through its Nature Rooms, will now have its headquarters in the Museum, and there will be closer coöperation between the League and the Museum in nature work. Dr. Lutz is a member of the Committee on Outdoor Education of the American Association of Museums. Dr. Fisher is one of the Directors of the School Garden Association, President of the New York Bird and Tree Club, Corresponding Secretary of the Visual Instruction Association of America (New York Chapter), member of the National Council of Guidance of the Woodcraft League, and Chairman of the Coördinating Council on Nature Activities.

At the annual meeting of the American Association for the Advancement of Science in Philadelphia, Dr. Fisher gave one of the four popular lectures before the general meeting. His subject was "A Journey through Lapland."

The Public Health and Food exhibits, which were developed under the direction of Honorary Curator C.-E. A. Winslow, continue to attract much attention, especially of the pupils of elementary and high schools. They are being moved and are being permanently installed in Education Hall of the new School Service Building. Here they will have adequate space, and will be much more accessible to groups of pupils from the schools. The Food exhibits will also be moved into this same hall, where they will be permanently installed, and plans have been made to add to these. The production, safeguarding and distributing of food for the people of New York will be shown. An exhibit on the bearing of vitamins upon the planning of diets is being planned. These exhibits are in charge of Miss Mary Greig, Assistant Curator of Public Health.

The photographic work of the Museum is now done by the Department. However, this work is so great that it is impossible for our two photographers to keep abreast of it, and many of the prints and slides must be sent out to commercial concerns. During the year, educational photographs and slides were sent throughout the United States and to twelve foreign countries. These have included slides for lecturers and teachers, and photographs for newspaper and magazine writers and authors of books on many subjects. During the year we have made 1,222 negatives, 13,854 prints, 458 enlargements, 7 transparencies, and 7,315 lantern slides (the largest number ever made in one year). We have also developed 1,488 films and 159 rolls of film exposed on Museum expeditions.

The photographic files have been increased by 6,662 negatives. Among these were 2,791 negatives of natural history subjects presented by Dr. Frank Overton, 916 negatives of Mexico presented by the Explorers Club from the estate of the late Alfred D. Lenz. From other Museum departments, 342 negatives were transferred, 1,198 were brought back by Museum expeditions,

218 have been received on deposit by Mr. Herbert E. Bradley, and 5 have been purchased. These additions make the total number of negatives in our files 103,406.

The photographic work is in charge of Dr. Fisher, but all orders and the cataloguing are in immediate charge of Miss Dorothy Van Vliet, Negative Librarian.

Early in the year, Miss Josephine Hopkins, who had been in charge of the Blind and Sight Conservation Classes, the Library Loans, and the Docent Service, besides doing a share of the lecturing to school children, resigned to enter medical school. It was with regret that her resignation was accepted, for Miss Hopkins did her work efficiently and with enthusiasm. Her cheerful personality had won for her an enviable place in the hearts of the teachers.

Miss Nancy True, a graduate of Brown University, was appointed to the position made vacant by this resignation.

Dr. Frank E. Lutz, who has so effectively developed the Nature Trail idea, and who has been advising the Department on outdoor activities, has recently been appointed Research Associate in Outdoor Education.

Mr. Paul B. Mann, who is Head of the Department of Biology in Evander Childs High School, has served during the year as adviser, especially in our coöperation with the High Schools. His title on the staff is Associate in Education.

Outdoor Education Dr. Frank E. Lutz, Curator of Insects, has conducted for some time a Station for the Study of Insects, in Harriman State Park, near Tuxedo, N. Y. In connection with this outdoor station, in 1925 he established and developed a Nature Trail in the vicinity. This attracted so much attention that it was continued during the season of 1926, and upon invitation of Dr. Lutz the Department of Public Education took part in the project by appointing Mr. F. Martin Brown of St. George's School, Newport, R. I., as assistant to Dr. Lutz.

This Nature Trail has been a wonderful stimulus to the present-day movement toward the emphasis of the outdoor museum and hundreds of nature trails have been made in various parts of the country, and also in foreign countries.

A complete list of the gifts of the year will be found in the accession list of this Report. We wish to express our appreciation of these generous gifts and of the continued interest and support of friends, which is of such great value in the Museum's work with the schools.

**Acknowledg-
ments**

PUBLIC INFORMATION

GEORGE N. PINDAR, Chairman

The helpful spirit of the press in keeping the public informed of the Museum's doings is best demonstrated by the increasing number of visitors to the halls of the institution.

The Press

Daily demands are made upon us for information concerning the scientific work, the whereabouts and purposes of our field parties, and the receipt of important acquisitions. The local press, in particular, has been most generous in giving us adequate space in the columns of their papers to bring to the attention of the public the Museum's ever-growing needs, and it is especially gratifying to note how heartily they have supported this feature of our work. In voicing the Museum's need for funds, they have given liberal space, both in the news and editorial sections of their papers.

During the past year, fifty bulletins were distributed to the press, and the returns, as noted through the clipping service, were tangible evidence that the articles were acceptable.

Added to the news bulletins sent out, a larger number of special writers have been assisted in their preparation of articles and search for information than ever before. The foreign press has indicated by its requests for bulletins and photographs that this feature of the Museum's work was appreciated abroad as well as at home. In all, about five hundred prints of Museum exhibits and field work were distributed to the press and individuals.

In this particular work of the Registrar's office, the Curators of the Museum have been an invaluable source of assistance in their coöperation. Without doubt, this division of work warrants the attention of one who can give it his full time, for not only would this profit the Museum, but it would more nearly satisfy the ever-increasing demands of the press for knowledge of what is taking place in this scientific and educational institution. Acknowledgment is also to be made of the generous coöperation of editors of encyclopædias, well-known and popular almanacs, and literary and periodical magazines, for giving adequate space in their publications to the exploiting of our many activities.

ACCESSIONS, 1926

ASTRONOMY

BY GIFT

ADAMS, EDWARD DEAN, New York City.

- 1 Painting: "Eclipse of the Sun, Oregon 1918", by Howard Russell Butler.

JOHNSON, GAYLORD, New York City.

- 9 Photographs of the moon.

BY PURCHASE

JAMES DOUGLAS FUND.

- 3 Paintings:

"Eclipse of the Sun, California 1923", by Howard Russell Butler.

"Eclipse of the Sun, Connecticut 1925", by Howard Russell Butler.

"A Luna Landscape", by Howard Russell Butler.

GEOLOGY

BY GIFT

ANDERSON, T.S., Amsterdam, New York.

- 1 Amorphous quartz ball; near Yagoo City, Miss.

ANDERSON, W., Taupo, New Zealand.

- 1 Specimen of coal and kapol; Taupo, New Zealand.

BELL, G. K., Jr., New York City.

- 15 Middle Cambrian Trilobites; Mt. Stephen, British Columbia.

BRIGHAM, EDWARD M., Battle Creek, Michigan.

Lava specimen containing a portion of a charred tree-fern trunk; Island of Oahu, near Honolulu.

Porphyritic pumice; Guatemala. Sand; Popocatepetl, Mexico.

CHAPMAN, DR. FRANK M., New York City.

- 1 Limestone; Aregua, Venezuela.

EMMONS, MAJOR G. T., Princeton, New Jersey.

- 1 Ammonite; 16 miles from Victoria, British Columbia.

FELLER, A., Zurich, Switzerland.

- 11 Green sandstone rocks; Switzerland.

FOYLES, E. J., New York City.

- 4 Specimens of hickory twigs and nuts; Elmsford, New York.

FRICK, CHILDS, New York City.

- 200 Fossil shells; Jemez Springs, New Mexico.

HARING, RALPH J., Garden City, Long Island.

- 6 Iron pyrites; 6 Carbonized wood; Roslyn, New York.

HOUSHOLDER, VIC. H., Phoenix, Arizona.

- 1 slab containing Mississippi crinoid stems and brachiopods; Payson, Arizona.

JOHNSTON, KENNETH L., New York City.

- 1 bottle of volcanic dust; Mt. Pelé, eruption of May 8, 1902.

LOS ANGELES MUSEUM, Los Angeles, California.

- 7 Lbs. asphaltic sand from the skull of a mastodon; Rancho la Brea, California.

Sample of heavy oil; Rancho la Brea beds, California.

MATLACK, F. D., Staten Island, New York.

- 1 Serpentine rock weathered to asbestos; Staten Island.

MINING MUSEUM, Sydney, Australia.

- 1 Slice of the Bingara #2 meteorite, 4130 grams; Australia.

MITCHELL, JOHN, Stratford, Connecticut.

- 1 Granite boulder; Bridgeport, Connecticut.

NEWMAN, HOWARD, Hackensack, New Jersey.

- 2 Fossil ferns; Phoenicia, N. Y.
- ORCHARD, F. P., New York City.

- 2 Specimens of argillaceous sand; Argentina.

PENROSE, SPENCER, Colorado Springs, Colorado.

- 9 Cretaceous fossils; Colorado Springs, Colorado.

PEPPERESS, ROSOL, Ontario, Canada.

- 1 Specimen of fibrous asbestos, in metamorphic rock; Ontario, Canada.

RAPIN, GEORGE, Millbrook, New Jersey.

- 15 Specimens of rocks; Millbrook, N. J.

REEDS, DR. CHESTER A., New York City.

- 1 Horseshoe crab.

STATEN ISLAND MUSEUM.

- 3 Casts of fossil crab (made by the American Museum of Natural History, of fossil crab loaned to the American Museum for identification).

STAYER, W. H., New York City.

- 4 Specimens of gold and manganese ores; Brazil.

TEXAS COMPANY, New York City.

- 200 Rocks and fossils; Venezuela, Colombia, Panama.

VIAL, AUGUST, Horse Cave, Kentucky.

- 1 Specimen of sea-buds; Horse Cave, Kentucky.

VON OEFLE, DR. FELIX, New York City.

- 2 Specimens of shale; Chile.

BY EXCHANGE

SOMMES, M. P., Joliet, Illinois.

- 14 Fossils; Mazon Creek.

BY PURCHASE

PERRET, DR. FRANK A., New York City.

- 26 Volcano pictures.

TRAIN, PERCY, Rochester, Nevada.

- 150 Triassic ammonites; Nevada.

WILSON, KURTZ, JR., New York City.

- 2 Pieces iron meteorite; Newton, Conn.

BY EXPEDITION

CENTRAL ASIATIC EXPEDITIONS.

- 6 Boxes geological specimens; Mongolia.

- 1,089 Rocks; Mongolia and China.

CHRISTMAN, C. G.

- 1 Pholas in rock, fossil; near Pataluma, California.

THOMSON, ALBERT.

- 1 Ammonite, 1 coral, 1 gastropod, 1 iron pyrites ball; near Folsom, South Dakota.

VERNAY ANGOLA EXPEDITION (Mr. Herbert Lang).

- 2 Actinolite; South Africa.

- 5 Banded agate; South Africa.

- 2 Amygdaloidal basalt; South Africa.

- 3 Quartz; South Africa.

- 5 Rock specimens; South Africa.

- 3 Bags of sand; Africa.

- 1 Tray of fossil invertebrates; South Africa.

- 11 Trays of wind-blown chert; South Africa.

- 7 Trays of marl; South Africa.

- 4 Boxes of rocks; South Africa.

MINERALOGY

By GIFT

ALBERTI, W. M., New York City.

- 1 Native Copper, 1 gold in quartz, 1 sphalerite; 15 miles northwest of Timmons, Ontario, Canada.

- ANTHROPOLOGY, DEPT. OF, Museum.
(Transferred.)
4 Halite, Camp Bird, Arizona.
- BRECHER, MARK M., New York City.
A Collection of miscellaneous duplicate minerals.
- CABRERA, CHARLES D., New York City.
1 Vial Amalgam and Copper, Vital Creek, B. C.
- CARLISLE, MISS MARY I., New York City.
Collection of miscellaneous duplicate minerals.
- CHRISTMAN, CHARLES, New York City.
1 Chalcedony, San Bernardino Co., California.
2 Chalcedony, Santa Fé, New Mexico.
3 Chalcopryrite, San Bernardino Co., California.
1 Flint, 1 jasper, 2 moss agate; Santa Fé, New Mexico.
2 Opal, Goffs, San Bernardino County, California.
1 Opal, Santa Fé, New Mexico.
- DZOBK, JOSEPH, New York City.
1 Limonite, Staten Island, N. Y.
1 Magnetite, New York City.
19 Pyrite, Pueblo, Colorado.
2 Pyrrhotite, Pelham Bay, N. Y.
7 Tourmaline, Mitchell Square, New York City.
1 Tourmaline, Connecticut.
- EVERTS, ARTHUR, Dallas, Texas.
1 Cut Blue Topaz, 1 uncut Blue Topaz; near Streeter, Texas.
- GOODMAN, D. N., New York City.
1 Amphibole (Asbestos), Kaapsche Hoop, Transvaal, South Africa.
1 Amphibole (Asbestos), Grand Canyon, Arizona.
- 1 Amphibole (Blue Asbestos), Mt. Vera, Bechuanaland, South Africa.
1 Crocidolite, Bechuanaland, South Africa.
1 Crocidolite, Kuruman, South Africa.
1 Crocidolite, Barberton District, East Africa.
1 Serpentine (Crysotile), Shabani Mine, Rhodesia, South Africa.
1 Serpentine (Crysotile), Kaapsche Hoop, Transvaal, South Africa.
1 Petrified Asbestos, South Africa.
- HARSTAD, A. J., Wolf Creek, Montana.
1 Chalcopryrite, 1 limonite, 9 orthoclase; Wolf Creek, Montana.
- HAWKINS, DR. ALFRED C., Rochester, N. Y.
4 Calcite, Plainfield, N. J.
1 Pyrite in Dolomite, Rochester, N. Y.
- HOADLEY, CHARLES W., Englewood, New Jersey.
1 Muscovite in Albite, Strickland Quarry, Portland, Conn.
1 Pyroxene, Mt. Ascutney, Vermont.
- HYDE, B. T. B., New York City.
1 Garnet (Schorlomite), 1 magnetite, 1 perovskite (Dysenallite); Magnet Cove, Arkansas.
- MCCROSSIN, E. FRANCIS, New York City.
19 Hematite, Hughes Springs, Texas.
6 Hematite, Lassute, Texas.
1 Hematite, Rusk, Cherokee Co., Texas.
1 Hematite geode, Dangerfield, Texas.

- 1 Limonite, near Hughes Springs, Texas.
 - 1 Peacock coal, Alabama.
 - 3 Siderite, near Linden, Texas.
- MOELLER, CONRAD, Paterson, New Jersey.
- 2 Barite on Quartz, Prospect Park, N. J.
- MORGAN, J. P., New York City.
- 1 Sapphire (Corn-flower blue stone), 188 carats, Ceylon.
 - 1 Sapphire (Fancy stone of unusual color), 100 carats, Ceylon.
 - 1 Sapphire (Light blue fancy stone), 85 carats, Ceylon.
 - 1 Sapphire (Light violet blue fancy stone), 69.4 carats, Ceylon.
 - 1 Sapphire (Wisteria purple fancy stone of unusual color), 66.85 carats, Ceylon.
 - 1 Sapphire (Purple fancy stone called oriental amethyst), 82.85 carats, Ceylon.
 - 1 Sapphire (Yellow fancy stone called oriental topaz), 99.77 carats, Ceylon.
 - 1 Sapphire (Yellow fancy stone called oriental topaz), 42.84 carats, Ceylon.
 - 1 Sapphire (Faint yellow fancy stone), 73 carats, Ceylon.
- MORTON, JAMES F., Paterson, New Jersey.
- 3 Barite, Prospect Park, N. J.
- PALICO, J. A., Païta, Peru.
- 125 Andalusite (Chiastolite), Païta, Peru.
- RADU, J. W., New York City.
- 1 Quartz pseudomorph, Greenwood, Maine.
- REAMER, LOUIS, Short Hills, New Jersey.
- 1 Barite, Paterson, N. J.
 - 3 Prehnite and Calcite, Paterson, N. J.
- 1 Stilpomelane var. Chalcodite, Lambertville, N. J.
- RICKETTS, L. D., Pasadena, California.
- 2 Descloizite, 3 Hydrozincite, 1 Sulphur and Gypsum, 1 Vanadinite (large), 3 Vanadinite, 1 Wulfenite (large), 5 Wulfenite, 1 Wulfenite and Galena, Los Lamentos, Chihuahua, Mexico.
- SHERWOOD, WILLIAM L., New York City.
- 1 Quartz, Monroe, Conn.
- SMACKEY, WILLIAM, New York City.
- 1 Pink Conch Pearl, Cartagena, Colombia.
- STAVER, W. H., Jackson Heights, Long Island.
- 1 Barite, Cartersville, Georgia.
 - 10 Corundum, Rio Janeiro, Brazil.
 - 1 Cyanite, Bahia, Brazil.
 - 1 Garnet (Matto Grosso), Brazil.
 - 1 Gold in Quartz, Prov. of Carabaya, Peru.
 - 14 Quartz, Brazil.
 - 1 Quartz, Bahia, Brazil.
- BY EXCHANGE
- COOPER, MORRIS, New York City.
- 1 Calcite, Egremont, England.
 - 1 Spencerite, Nelson, British Columbia.
- GUIMARAES, DR. DJALMAR, Brazil.
- 1 Columbite, 1 Monazite; Arrail de Divino, Uba, Minas Geraes, Brazil.
 - 1 Phenacite, San Miguel de Piracicaba, Minas Geraes, Brazil.
 - 1 Polycrasite, Fazenda de Santa Clara, Pomba, Minas Geraes, Brazil.
 - 1 Quartz, Portieras, Serra de Cabral, Minas Geraes, Brazil.

- 1 Samarskite, Arrail de Divino, Uba, Minas Geraes, Brazil.
 - 1 Xenotime, Fazenda de Santa Clara, Pomba, Minas Geraes, Brazil.
- HOADLEY, CHARLES W., Englewood, New Jersey.
- 2 Beryl, Bement Quarry, Buckfield, Maine.
 - 2 Beryl, Greenland Quarry, Auburn, Maine.
 - 2 Cassiterite, Bement Quarry, Buckfield, Maine.
 - 2 Lepidolite, Greenland Quarry, Auburn, Maine.
- INTERIOR, DEPARTMENT OF, Washington, D. C.
- 1 Ferropallidite, Tintic Standard Mine, Dividend, Utah.
- ROYAL ONTARIO MUSEUM OF MINERALOGY, Ontario, Canada.
- 1 Collinsite, François Lake, British Columbia.
- BY PURCHASE
- MATILDA W. BRUCE FUND
- 1 Anhydrite, Fallersleben, Hanover, Germany.
 - 1 Apatite, Greenwood, Maine.
 - 1 Aquamarine Crystal, Kopje, Namib Wüste, Southwest Africa.
 - 1 Aquamarine in Limonite, Kopje, Namib Wüste, Southwest Africa.
 - 1 Aquamarine in Quartz, Kopje, Namib Wüste, Southwest Africa.
 - 2 Calcite and Quartz, West Paterson, N. J.
 - 2 Chabazite and Calcite, West Paterson, N. J.
 - 7 Chabazite and Heulandite, West Paterson, N. J.
 - 1 Chabazite on Quartz, West Paterson, N. J.
 - 1 Cinnabar, Michoacan, 30 miles south of Couppa, Mexico.
 - 2 Cuprite, Bisbee, Arizona.
 - 1 Cuprite on native Copper, Bisbee, Arizona.
 - 1 Datolite pseudomorph, West Paterson, New Jersey.
 - 2 Galena (Twin crystals), Siegen, Germany.
 - 1 Garnet, Buckfield, Maine.
 - 1 Hematite and Chalcopyrite, West Paterson, N. J.
 - 2 Heulandite and Chabazite, West Paterson, N. J.
 - 1 Lehnertite, Hagendorf, Bavaria.
 - 1 Malachite, Bisbee, Arizona.
 - 1 Malachite, Tsumeb, Southwest Africa.
 - 1 Rose Mica, Taos Co., New Mexico.
 - 1 Rose Mica in Albite, Taos Co., New Mexico.
 - 1 Orpiment, Macedonia, Greece.
 - 1 Pectolite, West Paterson, N. J.
 - 4 Prehnite on Calcite, West Paterson, N. J.
 - 1 Prehnite on Calcite and Thomsonite, West Paterson, N. J.
 - 1 Pumpellyite, Kearsarge Lodge, Michigan.
 - 1 Purpurite, Hagendorf, Bavaria.
 - 1 Pyraurite, Langban, Sweden.
 - 1 Pyrite, Bingham, Utah.
 - 1 Pyrite, Elba, Italy.
 - 1 Pyrite on Quartz, Butte, Montana.
 - 1 Quartz and Feldspar, Mesa Grande, California.
 - 1 Rhodochrosite, Alma Park Co., Colorado.
 - 1 Rhodochrosite, Westphalia, Germany.

- 1 Samarskite, Petaca, New Mexico.
- 1 Spodumene, Pala, San Diego Co., California.
- 1 Stilbite on Quartz, West Paterson, N. J.
- 3 Thomsonite on Prehnite, West Paterson, N. J.
- 1 Thomsonite on Prehnite and Calcite, West Paterson, N. J.
- 1 Tourmaline, Mesa Grande, California.
- 1 Tourmaline, Mt. Mica, Maine.
- 2 Tourmalines, Cut, Mt. Mica, Maine.
- 2 Tourmalines (Indigolite), Ankas near Usakos, South-west Africa.
- 1 Tourmaline in Quartz, Mesa Grande, California.
- 1 Vanadinite, Kelvin, Arizona.
- 1 Wulfenite (Twin crystal), Mies, Bohemia.
- 1 Xanthoxenite, Hagendorf, Bavaria.
- LEFFINGWELL, D. J., Pullman, Washington.
1 *Equus* tooth, Columbia River.

BY EXCHANGE

- ANDERSON, DR. C., Sydney, Australia.
Cast of fossil kangaroo (*Sthenurus*).
- BRITISH MUSEUM, London, England.
5 Specimens, skull and foot-bones of *Peracetratherium*.
4 Specimens, limb bones of *Baluchitherium*.
5 Casts of mastodon teeth.
Piltown implement.
- CASE, DR. E. C., Ann Arbor, Michigan.
Cast of phytosaur pelvis.
- HERRERA, DIRECTOR A. L., Secretaria de Agricultura y Fomento, Direccion de Estudios Biologicos, Mexico.
Casts of molars of *Elephas imperator* and *Elephas columbi*.
- LONGMAN, HEBER A., Brisbane, Australia.
Box of fossil kangaroo specimens.
- MUSÉE ROYAL D'HISTOIRE NATURELLE DE BELGIQUE, Brussels, Belgium.
Cast of *Iguanodon* skeleton.
- ZDANSKY, DR. OTTO, Upsala, Sweden.
Cast of jaw of *Plesiogulo*.

BY PURCHASE

- SUSHKIN, DR. P., Leningrad, U.S.S.R.
Pareiasaurus skeleton, U.S.S.R.

BY EXPEDITION

- CENTRAL ASIATIC EXPEDITIONS.
15 Boxes of Fossils; Mongolia.
- THOMSON, ALBERT, New York City.
7 Boxes of fossils; Agate, Nebraska.

VERTEBRATE PALÆONTOLOGY

BY GIFT

- CAMERON, A. K., Powderville, Montana.
Small carnivore teeth, invertebrates, arrowheads; Chalk Buttes, Montana.
- 2 Packages fossil specimens.
- 5 Specimens of footprints from Cretaceous formation; small collection of Cretaceous vertebrates, mostly dinosaurs.
- DUBOIS, DR. EUGEN, Amsterdam, Holland.
Cast of cranium and femur of *Pithecanthropus*.
- GEOLOGICAL INSTITUTE, Turin, Italy.
Cast of type molar tooth of *Mastodon borsoni*.

VON HUENE, DR. F., Tubingen,
Germany.

21 Boxes of fossils (dinosaur).

ENTOMOLOGY

BY GIFT

ANGELL, J. W., New York City.

2 Bees; Cherry Run, N. C.

BELL, E. L., Flushing, New York.

27 Lepidoptera; Alabama.

12 Lepidoptera; Arizona.

BELL, E. L., AND HUNTINGTON, E. I.

37 Lepidoptera, identified; Australia.

BIRBECK, R., New York City.

98 Lepidoptera; Guatemala and Nicaragua.

BRITTON, PROF. W. E., New Haven,
Connecticut.

4 Beetles, 4 Hymenoptera, Connecticut.

BUEGIN, V., Detroit, Michigan.

412 Lepidoptera; near Vladivostock, Siberia.

COCKERELL, PROF. T. D. A., Boulder,
Colorado.

17 Named bees of various genera;
Old World and New.

COLEMAN, L. V., New York City.

25 Lepidoptera.

COWLISHAW, MISS IRENE, New York
City.

3 Beetles; Philippine Islands.

DA CISA, DONNA THEA, Minas
Geraes, Brazil.

17 Lepidoptera; Brazil.

DAVIS, WM. T., Staten Island, New
York.

12 Types and 8 allotypes of cicadas.

FRIEDER, LEONARD P., New Bedford,
Massachusetts.

50 Exhibition items of silk in different processes of manufacture.

FROST, C. A., Framingham, Massachusetts.

45 Beetles.

GEHRING, DR. J. G., Bethel, Maine.

2 Beetles (*Plusiotis*); Alpine,
Texas.

GELLAO, E. A., New York City.

1 Parasite and cocoon.

HALL, G. C., New York City.

107 Lepidoptera.

HARROWER, J. E.

742 Insects; Nicaragua.

HOLMES, C. M., Vera Cruz, Mexico.

78 Insects; Vera Cruz, Mexico.

HUNTINGTON, E. I., New York City.

25 Lepidoptera; Europe.

LAWLER, W. F., New York City.

300 Lepidoptera.

MIYAJIMA, DR. MIKINOSUKE, Tokyo,
Japan.

Life-history of a Fire-Fly.

Life-history of a Human Parasitic Worm.

MULLER, R. O., New York City.

7 Lepidoptera; Europe.

MURPHY, DR. R. C., New York City.

1 Hippoboscid from *Falco eleonora*; Balearic Isles.

ORNITHOLOGY, DEPARTMENT OF (MR.
JESSE METCALF).

Insects.

NORMAN, FRED A., New York City.

1 Wasp's nest; Mazaruni River,
near Venezuela.

SILVER, HENRY, Bronx, New York.

10 Lepidoptera; Florida.

STATHAM, RICHARD N., Irvington-on-Hudson, New York.

18 Spiders, mounted; Irvington-on-Hudson, New York.

STEINMETZ, MRS. EVELENA, New
York City.

Collection of moths and butterflies with beetles and wasps scattered in between; Bronx Park.

- STURTEVANT, DR. A. H., New York City.
 10 Diptera.
 U. S. NATIONAL MUSEUM, Washington, D. C.
 5 Anthidiine bees; California.
 200 Galls and Gall insects.
 WINSHIP, MRS. EUGENE, Long Branch, New Jersey.
 Diptera.
 WOOD, WM. C., New York City.
 22 Odonata; Florida.
 22 Lepidoptera; Sweden.
 WOODBUFF, LEWIS B., ESTATE OF.
 25,800 Insects of all orders.
 BY EXCHANGE
 BROWN, W. J., Stillwater, Oklahoma.
 11 Beetles (*Scarabæidæ*).
 MANCINI, CESARE, Genoa, Italy.
 96 Beetles (*Scarabæidæ*); Italy.
 NICOLAY, A. S., Upper Montclair, New Jersey.
 23 Beetles.
 SIM, R. J., Riverton, New Jersey.
 32 Beetles.
 BY EXPEDITION
 LADEW EXPEDITION TO BOLIVIA (G. H. H. TATE).
 1,000 Insects; Bolivia.
 VERNAY ANGOLA EXPEDITION (MR. HERBERT LANG).
 Collection of insects in alcohol; Africa.
- LOWER INVERTEBRATES**
 BY GIFT
 BLISS, MRS. WILLIAM HENRY, New York City.
 1 Undersea painting, "Coral Arches in the Lagoon at Maraa, Tahiti," by Zarh H. Pritchard.
 BORODIN, DR. N. A., Brooklyn, N. Y.
 1 Fresh water bryozoan (*Pectinatella magnifica*); pond of Brooklyn Botanic Garden.
- CARLISLE, MISS MARY I., New York City.
 40 Shells and other invertebrates.
 DUNHAM, H. F., Fort Myers, Florida.
 1 Worm tube (*Diopatra* sp.); Florida.
 EMMONS, LT. G. T., Princeton, New Jersey.
 7 Shells.
 FLESH, A., JR., New York City.
 8 Marine shells.
 HATT, R. T., New York City.
 1 Ascidian; Woods Hole, Massachusetts.
 4 Isopods; Lake Champlain, New York.
 HOWES, DR. PAUL G., Greenwich, Connecticut.
 1 Parasitic copepod (*Lernæenicus radiatus*); Noroton, Connecticut.
 JOHNSON, J. M., Honolulu, T. H.
 Collection, 150 specimens, of crustaceans (Anomura, Brachyura, and Macrura); Honolulu, T. H.
 KESS, CARL F., New York City.
 2 Octopus; Adriatic Sea.
 MARINE AND FISHERIES, DEPT. OF, Ottawa, Canada.
 60 Invertebrates; Florida.
 MAWSON, MISS AGNES, New York City.
 2 Specimens of corals; Bermuda.
 MILLER, CAPT. THOS. I., Newark, New Jersey.
 3 Fresh-water jellyfish (*Craspedacusta ryderi*); Indian Lake, Kentucky.
 MINER, MRS. R. W., New York City.
 1 Sponge; Nassau, Bahamas.
 MITTELSTAEDT, DR. CHARLES B. J., New York City.
 200 Specimens, collection of marine shells; Philippine Is.

- MURPHY, DR. R. C., New York City.
 17 Land shells; Balearic Islands, Spain.
 1 Box crab; Stora Karlso Island, Baltic Sea.
- MURPHY, MRS. R. C., New York City.
 1 *Pinna* shell; Alcudia Bay, Balearic Isles, Spain.
- MYERS, FRANK J., Ventnor, New Jersey.
 1 Minot microtome for laboratory.
 10 Vials of Cladocera and Copepoda; Wisconsin and California.
 27 Slides of mounted and identified Rotifera, including 1 type.
- NEW YORK AQUARIUM, New York City.
 1 Annulate (*Arenicola marina*); Orient, New York.
- NICHOLS, JOHN T., New York City.
 100 Invertebrates; Alaska.
- ORNITHOLOGY, DEPARTMENT OF, (MR. JESSE METCALF).
 43 Shells; Madeira Islands, Portugal.
 5 Crustacea; Madeira Is.
 1 Octopus; Madeira Is.
 2 Annulates; Madeira Is.
- PREPARATION, DEPARTMENT OF.
 60 Specimens of invertebrates.
- PRITCHARD, ZARH H., Pasadena, California.
 1 Undersea painting, "Coral Garden, Lagoon of Paparu, Tahiti," by Zarh H. Pritchard. (Label to bear: "In memory of Richard Sackville Cox III, aged 20 years").
- PYNE, PERCY R., New York City.
 1 Abalone shell, polished, formerly the property of King Louis Philippe of France; Coast of France.
- RECORD, JOHN W., Chicago, Illinois.
 Collection of marine shells and sponges; Sanibel, Florida.
- SANDS STUDIO, Nassau, Bahamas.
 Series of 88 photographic prints of Nassau and vicinity.
- SCHRADEER'S, A., SON, INC., Brooklyn, New York.
 Supplementary equipment for diving outfit to be used for research and exhibition purposes.
- SMITH, FRANKLIN S., Montclair, New Jersey.
 75 Fresh-water shells; Edgemont Pond, Montclair, New Jersey.
- TREADWELL, PROF. A. L., Poughkeepsie, New York.
 125 Identified annulates.
- VAN NAME, DR. W. G., New York City.
 5 Fresh-water bivalve shells; Lake Owen, Wisconsin.
- WEBER, FREDERICK C., Jersey City, New Jersey.
 Exhibit of shells, used for making artificial flowers.
- WEEKS, W. H., Brooklyn, New York.
 1 Ornamental shell design.
- WOODHOUSE, R. P., Yonkers, New York.
 1 Hair worm (*Gordius lineatus*); Putnam Co., New York.
- BY EXCHANGE
- MUSEU PAULISTA, São Paulo, Brazil.
 6 Containers of ascidians; Island of São Sebastiao, Brazil.
 8 Containers of other invertebrates; Island of São Sebastiao, Brazil.
- NIEERSTRASZ, PROF. H. F., Utrecht, Holland.
 4 Parasitic isopods; Naples, Italy.

- OLDBROYD, MRS. IDA S., Stanford University, California.
 72 Echinoderms; Puget Sound.
 6 Identified land shells.
 10 Slides of mounted and identified Foraminifera; Bahamas.

BY PURCHASE

- CALLEWAERT, REV. FR. R. C., Belgian Congo, Africa.
 20 Crustaceans; Luluabourg, Kasai District, Belgian Congo.

BY EXPEDITION

- AMERICAN MUSEUM GREENLAND EXPEDITION (CAPT. R. BARTLETT and H. C. RAVEN).

Collection, 221 specimens, of invertebrates, Crustacea, Annelata, Mollusca, Cœlenterata; North Greenland.

- ANTHONY AND GOODWIN WEST INDIES EXPEDITION.

6 Crustaceans; Culebra, Porto Rico.

2 Myriapods; Culebra, Porto Rico.

- ARCTURUS EXPEDITION (MR. WILLIAM BEEBE).

1 Shell (*Argonauta nouryi*); Galápagos Islands.

- PHIPPS-MINER EXPEDITION.

60 Plaster molds of reef fishes.

60 Oil and water-color sketches of fishes; Andros I., Bahamas.

15 Background sketches.

Collection of preserved fishes and invertebrates.

1,200 Photographs.

2,600 Feet Motion Picture.

- SPALDING LOWER CALIFORNIA EXPEDITION (MR. W. A. ESCHERICH).

100 Parasitic crustaceans; Lower California.

- TATE, G. H. H.

1 Sea urchin; Arequipa, Peru.

1 Shell; Arequipa, Peru.

- VAN NAME, DR. W. G.

900 Invertebrates; Pearl Is. and Bay of Panama.

- WHITNEY SOUTH SEA EXPEDITION (MR. ROLLO H. BECK).

10 Marine shells; New Zealand.

1 Sponge; Tonga Islands.

ICHTHYOLOGY

BY GIFT

- ACKERMANN, FRED.

1 Dogfish.

- ANTHROPOLOGY, DEPARTMENT OF, MUSEUM.

1 Head of Gutter Fish (*Rhinobatis*); Aden.

- BREDER, C. M., JR., New York City.

1 Abnormal flounder (*Pseudopleuronectes*).

- CARRION, PROF. CLODOVEO, Loja, Ecuador.

Fossil fishes; Loja excavations.

- DEAN, DR. BASHFORD, New York City.

2 Ray capsules; Nantucket Island.

- FIELD AND STREAM, New York City.

1 Head of small-mouth bass; Chestertown, New York.

- GOODWIN, GEORGE G., New York City.

1 Moray; Porto Rico.

1 Trunkfish; Porto Rico.

- GREY, DR. ZANE, Lackawaxen, Pennsylvania.

Collection of mounted big game fishes, including 2 tuna, 1 long-fin tuna, 2 sailfishes, 2 swordfishes, flying fish, rooster-fish, 1 large ocean sunfish, 1 small ocean sunfish, amberjack, yellow-tail, barracuda, kingfish, jewfish, bonefish, wahoo, albacore and tarpon.

- HERMAN, CHARLES, New York City.

1 Sea Robin.

- HOWES, DR. PAUL C., Greenwich, Connecticut.
 1 Goby (*Sicydium punctatum* Perugia); Dominica, B. W. I.
- JANOVICI, S., New York City.
 Fossil fish skeleton; near Algiers, Africa.
- MCPHETERS, ABNER, Bangor, Maine.
 3 Brook trout mounted on panel.
- NEW YORK AQUARIUM, New York City.
 23 Fishes; Adriatic Sea.
 1 *Rachycentron canadus*; Long Island Sound.
- ORNITHOLOGY, DEPARTMENT OF (MR. JESSE METCALF).
 150 Fishes; Mediterranean.
- PEEK, DR. BURTON F., Moline, Illinois.
 1 Mounted record bonefish; Island of Bimini, Bahamas.
- PHIPPS, JOHN H., Westbury, Long Island.
 1 Barracuda (*Sphyræna guachancho*); Bahamas.
- SCHENCK, GARRET, Boston, Massachusetts.
 1 Mounted sailfish.
- SPALDING, KEITH, Pasadena, California.
 Film of expedition to Gulf of California.
 Collection of big game fishes, including sailfish and roosterfish caught off Cape San Lucas, also dolphin, tuna, and several smaller fishes.
- STRAUSS, MR., New York City.
 1 Lumpfish (*Cyclopterus lumpus*).
- VANDEBILT, W. K., New York City.
 New Shark (*Pristiurus*); off Miami Beach, Florida.
- VAN NAME, DR. W. G., New York City.
 25 Marine fishes; Central America.
- WEINBERGER, DR. B. W., New York City.
 1 Salmon; Belgrade Lakes, Maine.
- YOUNG, DR. DONNELL B., Tucson, Arizona.
 Bottle of fishes (*Cyprinodon macularius*); near Phoenix, Arizona.
- BY EXCHANGE
- JOHANSEN, FRITZ, Ottawa, Canada.
 26 Canadian Arctic fishes.
- KARPINSKY, A., Leningrad, USSR.
 Fossil carp (*Helicoprion bezsonovi*), and cast of type specimen of same; Krasnoufimsk, USSR.
- BY PURCHASE
- CALLEWAERT, REV. R. P.
 33 Fishes; Kasai District, Belgian Congo.
- BY EXPEDITION
- CENTRAL ASIATIC EXPEDITIONS (MR. POPE and MR. CHANEY).
 4,575 (?) Fishes; Mongolia and China.
 Fossil fishes from paper shales; Uskuk, Asia.
- KEITH SPALDING EXPEDITION (MR. WALTER ESCHERICH).
 1 Rooster fish, 1 *Caranx*, 1 *Gymnosarda*, 2 snappers, 1 *Remora brachyptera*; Gulf of California.
- VERNAY ANGOLA EXPEDITION (MR. HERBERT LANG).
 259 Fishes; South Africa.
- HERPETOLOGY
- BY GIFT
- ANONYMOUS.
 1 Pine snake; New York City.
- BARTELS, HENRY, New York City.
 17 Pythons; India.

- BLAKE, EDWINA ST. F., Brooklyn, New York.
1 Horn toad; near Tucson, Arizona.
- BOEHRER, CHARLES A., Brooklyn, New York.
1 Hog-nosed snake; Long Island.
- BOWDISH, B. S., Demarest, New Jersey.
1 Dusky salamander.
- BRUESTLE, B. G., New York City.
1 Hog-nosed snake, 2 Ribbon snakes, 3 Water snakes, 1 Toad, and 4 Turtles; all from Connecticut.
- CAHN, PROF. ALVIN R., Champaign, Illinois.
2 Salamanders; near Danville, Illinois.
- CARTER, T. DONALD, New York City.
1 Frog (*Hyla crucifer*); 16 newts (*Triturus viridescens*), land form; 2 salamanders (*Desmognathus fuscus*); 1 salamander (*Eurycea bistineata*); 1 salamander (*Eurycea longicauda*); 1 salamander larva (*Pseudotriton ruber*); 1 snake (*Coluber constrictor*); 1 snake (*Lampropeltis triangulum*); all from New Jersey.
- CRAWFORD, DR. S. C., Lynchburg, Virginia.
12 Lizards; 41 frogs; 7 larvae; British Guiana.
- CROSSLEY, THOMAS S., Nananfu, Kiang Si, China.
11 Snakes; China.
- EMERSON, DR. ALFRED, Pittsburgh, Pennsylvania.
4 Frogs (*Protopipa aspera*); British Guiana.
- ENGELHARDT, GEORGE P., Brooklyn, New York.
11 Salamanders; Tennessee.
1 Snake (*Pituophis lodingi*).
- ERWIN, RICHARD P., Boise, Idaho.
1 Salamander (*Ambystoma macrodactylum*); Boise County, Idaho.
- GOODWIN, G. G., New York City.
5 Salamanders (*Triturus marmorata*); Stafford, England.
- GREEY, LELAND V., Amityville, Long Island.
1 Toad; Amityville, Long Island.
- HALE, JOSEPH D., New York City.
1 Indian python; near Madras, India.
- HASSLER, WM. G., New York City.
5 Frogs; New Jersey.
34 Salamanders; New Jersey.
4 DeKay's snakes; Maine.
2 Green snakes; Maine.
- HOFFMANN, DR. W. H., Havana, Cuba.
6 Frogs (*Hyla septentrionalis*); Cuba.
- HOWES, PAUL G., Greenwich, Connecticut.
3 Frogs (*Eleutherodactylus martinicensis*); Dominica, B. W. I.
- HYDE, B. T. B., New York City.
1 Frog (*Hyla arenicolor*); Payson, Arizona.
1 Small lizard.
- INGERSOLL, ERNEST, New York City.
1 Lizard (*Gerrhonotus principis*); Armstrong, British Columbia. (Collected by Robert Wood.)
- JOSEPH, ELLIS S., New York City.
2 Turtles.
- KAYSER, SCOUT FREDERICK, New York City.
8 Newts (*Triturus viridescens*); 3 Tadpoles (*Rana clamitans*); Peach Lake, New York.
- KLEIN, A. J., New York City.
1 Turtle, shell and skin; British East Africa. (Received from the Department of Mammalogy.)

KLOTS, A. B., New York City.

- 1 Worm snake (*Carphophis amœna*); Palisades Park, New York.

MARIA, BROTHER HERMANO NICEFORO, Bogota, Colombia.

- 4 Cœcilians; South America.

MINER, MRS. R. W., New York City.

- 1 Iguana; Bahamas.

MOLDENKE, RICHARD, Watchung, New Jersey.

- 6 Ringneck snakes; New Jersey.

NEW YORK AQUARIUM, New York City.

- 2 Alligators: 4 *Necturus* 1 gopher turtle; 1 green turtle.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

- 3 Amphiumas; 2 chamæleons; 1 frog; 1 Gila monster; 6 iguana; 11 lizards; 4 alligators (*Tegus*); 1 blue-tongued lizard; 2 giant lizards, Komodo Island; 7 snakes; 2 boas; 1 boa constrictor; 1 sand boa; 1 king cobra; 1 copperhead; 5 green mambas; 1 Mexican moccasin; 1 python; 4 ball pythons; 1 black-tailed python; 2 rock pythons; 9 rattlesnakes; 1 brown tree snake; 1 spotted tree snake; 6 velvet tree snakes; 2 tropical racers; 14 turtles; 2 Abyssinian turtles; 3 box turtles; 1 desert tortoise; 2 hinged tortoises; 1 tortoise.

NICHOLS, JOHN T., New York City.

- 1 Salamander (*Ambystoma jeffersonianum*); Rhinebeck, New York.

- 1 Mud turtle; 2 young turtles; 3 turtle eggs; Long Island, New York.

ORNITHOLOGY, DEPARTMENT OF (MR. JESSE METCALF).

- 21 Lizards; Mediterranean.

PASSLER, CHARLES, New York City.

- 1 Bull frog; New York City.

VAN NAME, WILLARD G., New York City.

- 3 Frogs; 1 salamander; Barro Colorado Island, Panama.

WAGER, VINCENT, Orange Free State, South Africa.

- 3 Frogs; South Africa.

WEBER, JAY A., Leonia, New Jersey.

- 122 Amphibians; Severance, New York.

- 7 Frogs; Bermuda.

- 13 Reptiles; Severance, New York.

- 21 Salamanders.

WILDER, PROF. I. W., Northhampton, Massachusetts.

- 1 Frog; Moneague, Jamaica, West Indies.

WOODBUFF, LEWIS B., ESTATE OF.

- 11 Snakes; 1 frog; dried specimens.

BY EXCHANGE

BISHOP, DR. S. C., Albany, New York.

- 15 Vials of eggs and larvæ of salamanders.

GEYER, HANS, Regensburg, Germany.

- 3 Salamanders, 33 frogs, Germany; 24 salamanders, Genoa, Italy; 1 snake, 4 salamanders, Sardinia, Italy.

HOFFMANN, DR. W. H., Havana, Cuba.

- 6 Tree frogs; Cuba.

KLAUBER, L. M., San Diego, California.

- 16 Lizards; 2 snakes; 4 salamanders; California.

OESER, DR. RICHARD, Berlin, Wilmersdorf, Germany.

- 4 Lizards; 2 *Proteus*; 24 salamanders.

- SLEVIN, JOSEPH R., California Academy of Sciences, San Francisco, California.
 3 Salamanders (*Aneides iecanus*); Los Gatos, California.
 3 Salamanders (*Aneides lugubris farallonensis*); Farallon Is., California.
- UNTERSTEIN, WALTHER, Berlin, Germany.
 11 Salamanders.
- WOLTERSTORFF, DR. W., Magdeburg, Germany.
 3 Salamanders (*Spelerpes fuscus*); Genoa, Italy.
 2 Salamanders (*Euproctus asper*); Pyrenees.
- BY PURCHASE
- 29 Frogs, 1 vial of amphibian eggs, 95 salamanders, 20 lizards; Imboden, Arkansas.
 67 Amphibians; Austria.
 24 Frogs, 1 lizard, 1 snake; Belgian Congo.
 9 Frogs, 1 salamander; China.
 101 Salamanders; New York.
 14 *Manculus*; North Carolina.
 1 Gecko; southern Spain.
- BY EXPEDITION
- ANTHONY AND GOODWIN WEST INDIES EXPEDITION.
 90 Amphibians, 137 reptiles, 32 lizards, Mona Island; 16 lizards, Porto Rico; 40 frogs, Mona Island; 33 frogs, Porto Rico; 1 snake, Mona Island; all from West Indies.
- BURDEN, WILLIAM DOUGLAS, EXPEDITION.
 547 Frogs, 228 lizards, 78 snakes; Wetar, Bima and Komodo Is., Dutch East Indies.
- CENTRAL ASIATIC EXPEDITIONS (MR. CLIFFORD H. POPE).
 2,459 Amphibians; China.
 1,728 Reptiles; China.
 2 Snakes (through Department of Palaeontology).
- DEPARTMENT FIELD WORK (DR. G. K. NOBLE).
 302 Newts, 14 tadpoles; Newfoundland, New Jersey.
 3 Egg clusters, 23 salamanders, 30 tadpoles; New Jersey.
 257 Salamanders, 60 salamander larvæ, 4 snakes, 1 turtle; Flat Rock and Pisgah Range, North Carolina.
- (DR. G. K. NOBLE and WILLIAM G. HASSLER).
 1 Newt, 43 salamanders, 2 snakes; Leonia, New Jersey.
- (MR. WILLIAM G. HASSLER).
 1 Frog, 2 salamanders, 1 snake; Alpine, New Jersey.
- (MR. W. G. HASSLER and MALCOLM D. GORDON).
 26 Frogs, 1 newt, 5 salamanders; New Jersey and near Kanohwahke Lake, New York.
- (MR. W. G. HASSLER and WILBERT ODELL).
 9 Fence lizards; near Beacon, New York.
- TATE BOLIVIAN EXPEDITION.
 9 Amphibians; La Paz Region, Bolivia.
 34 Frogs, 10 reptiles; Bolivia.
- VERNAY ANGOLA EXPEDITION (MR. H. LANG, HARRY and ALAN CHAPMAN).
 3 Frogs, 78 lizards, 5 snakes, 1 bunch of tadpoles, 3 turtles; Huambo, Africa.
 44 Lizards, 1 lizard skin, 5 snakes, 2 turtles, 11 turtle shells; Africa.
 61 Lizards, 6 frogs, 4 snakes; Verdun, Africa.

ORNITHOLOGY

BY GIFT

ACKLAND, MYRON, Monticello, New York.

1 Egret, American.

ANONYMOUS.

1 Loon, red-throated.

1 Waxbill.

BARSTOW, FREDERICK, Chittenden, Vermont.

1 Parrot, skin; Suva Island.

BARTELS, HENRY, New York City.

1 Bullfinch; 1 caique, white-bellied; 1 canary, white; 1 cardinal, crested Brazilian; 1 Ibis, skeleton; 2 lories; 1 lory, Blue Mountain; 2 lovebirds, skeletons; 3 parakeets, skeletons; 1 parakeet, Pen-nant's, skeleton; 1 parakeet, Rosella, skeleton; 2 parrots, skeletons; 1 pigeon; 1 pigeon, fruit, skeleton; 4 starlings, tri-colored; 1 toucan, green, skin.

BRONX COUNTY BIRD CLUB.

1 Murre, skin.

BURKE, DR. EDGAR, Jersey City, New Jersey.

1 Falcon, skin.

CLEMENT, G., New York City.

1 Grouse, red, body skeleton.

DAWES, MISS EMILY, Englewood, New Jersey.

1 Grosbeak, rose-breasted; Englewood, New Jersey.

EASON, WILLIAM, New York City.

1 Waxwing, cedar, skin; Greenwich, Conn.

EHRMANN, LUDWIG, New York City.

1 Case of mounted birds.

ENGEL, PAUL, New York City.

1 Woodcock, skeleton.

FOURNIER, C. L., Greenport, Long Island.

1 Murre; Greenport, L. I.

FREDRICKS, HUDSON, Moe, New Jersey.

1 Tanager, scarlet, skin; New Jersey.

GEISLER, M., BIRD Co., New York City.

1 Cuckoo, skeleton; 2 parakeets, skeletons and skins; 6 parrots, Cuban, skeletons and skulls; 1 Waxbill, Orange-cheeked, skeleton and skull; 1 Weaver bird, skeleton.

GILL, G., Huntington, New York.

1 Hawk, sharp-skinned.

GRAVES, W. H., Cambridge, Massachusetts.

1 Eider, American; 1 Merganser, red-breasted, skin.

GRISCOM, REV. ACTON, New York City.

1 Owl, long-eared; Riverdale, New York City.

GRISCOM, LUDLOW, New York City.
63 Bird-skins, China; 1 thrush, olive-back, skin.

HAMBRIDGE, MARY, New York City.

1 Mockingbird, skin.

HAMBROCK, H. J., Toms River, New Jersey.

1 Hawk, red-shouldered, skin; 1 owl, barred, skin; New Jersey.

HEILNER, VAN CAMPEN, Spring Lake Beach, New Jersey.

1 Owl, snowy; Spring Lake Beach, New Jersey.

HILL, D. P., New York City.

1 Hummingbird, skeleton.

HOGELSTEIN, ROBERT, Mineola, New York.

1 Set eggs, piping plover.

HOLLISTER, MISS GLORIA E., New York City.

2 Oil-birds, one young, one adult; Trinidad, South America; 1 nest, set of eggs, 2 wings; South America.

- IVES, H. DAVIS, Southampton, Long Island.
 1 Cowbird.
- JOSEPH, ELLIS S., New York City.
 1 Adjutant, Java, skeleton; 1 bird; 1 cockatoo, skin; 1 crow, skeleton; 1 curassow; 1 dove, skeleton; 1 eagle; 4 eggs; 1 gallinule, skeleton; 1 flamingo, skeleton; 1 flamingo, European, skeleton of head; 1 guinea fowl, full skeleton; 4 hornbills, ground, 2 skeletons, 1 skin; 1 Ibis, African wood, skeleton; 1 Ibis, scarlet, skeleton; 1 lapwing, South American, full skeleton; 1 lapwing, skeleton; 1 love-bird, gray-headed, full skeleton; 1 macaw; 1 ostrich, full skeleton; 1 ostrich, skull and limb, skeleton; 1 ostrich, Sudan, skin and skeleton; 2 parrots, 1 skin, 1 skeleton; 1 parrot, Abyssinian, skin; 1 partridge, skeleton; 6 rheas, 2 skeletons, 1 skull; 2 rollers, skeletons; 1 screamer, skeleton; 1 Seriema, skeleton; 1 Turaco, skeleton; 6 vulturine guinea fowl, 2 skeletons, 3 skins, 1 mounted; 1 waxbill.
- KUERZI, JOHN F., New York City.
 1 King rail; Hunt's Point tidal marsh, Bronx, New York City.
- LEVY, FRANK, New York City.
 1 Duck hawk; 1 shell parakeet, skeleton; 1 shrike, skeleton.
- LLOYD, HOYES, Ottawa, Canada.
 1 Hawk owl, skeleton.
- MERRYMAN, WALTER R., Haverhill, Massachusetts.
 11 Photographs of scenes at Chincha Is. and other Peruvian guano islands.
- METCALF, JESSE, New York City (Dr. R. C. Murphy).
 80 birdskins, several skeletons and alcoholic specimens; Balearic, Alboran, etc.
- MILLER, W. DEW., New York City.
 1 Horned grebe; Barnegat City, New Jersey.
 1 Nuthatch, skeleton; 1 Baltimore Oriole, skeleton.
- MURPHY, DR. ROBERT CUSHMAN, New York City.
 1 Warbler, skin.
- NATHAN, BERNARD, Brooklyn, New York.
 1 Gallinule, skin.
- NEW YORK AQUARIUM, New York.
 1 Penguin, skin; 1 Penguin, King, skeleton.
- NEW YORK ZOOLOGICAL SOCIETY, New York City.
 Adjutan, Javan; 1 babbler, skin; 1 barbet, skeleton; 1 bellbird, skeleton; 3 birds of paradise, 1 skeleton, 1 skin and body skeleton; 1 bird of paradise, Blue, skeleton; 1 bird of paradise, Red, skin; 1 boatbill; 1 booby; 1 booby, blue-footed; 1 cockatoo, alcoholic; 1 coly, skeleton; 1 crane, Demoiselle, skin; 1 crane, white-necked, skeleton; 1 cyanerpes; 1 dine-mellia; 2 eagles; 1 eagle, African Sea, skin; 1 emu, skeleton; 1 euphonia, skeleton; 1 flycatcher, Old World, skin; 1 frigate bird; 1 goose, skin; 1 goose, semipalmated, skin and body skeleton; 1 guan, skeleton; 1 gull, Franklin; 1 honey creeper, skin; 1 honey creeper, blue (albinistic), skin; 2 hornbills, 1 skin and 1 skeleton; 1 hawfinch, mounted; 1 macaw, skin; 1 munia; 1 oriole, skeleton; 1 ostrich, skeleton; 2 owls, eagle, 1 skin, 1 skeleton;

- 2 owls, 1 skin, 1 skeleton; 2 parakeets, 1 skin, 1 skeleton; 1 parrot, skin; 1 parrot, brown-headed, skeleton; 1 pheasant, peacock, skin; 1 pelican, mounted; 1 pelican, California brown, skin; 2 penguins, king, 1 skeleton; 1 pheasant, argus, skin; 1 pheasant, hybrid; 4 pigeons; 1 pigeon, fruit, skin; 1 pigeon, great bronze-winged, skin; 1 pigeon, Nicobar; 1 pitta, skeleton; 1 plover; 1 quail; 1 rail, skin; 1 seriema, mounted; 1 snake bird; 1 spreo; 1 starling; 1 starling, African; 1 swan, black; 1 swan, whooper, skeleton; 1 tanager, swallow; 1 teal; 1 thrush, skeleton; 1 toucan, skeleton; 1 toucan, toco, mounted; 1 trumpeter, skeleton; 1 trumpeter, green-winged, mounted; 2 vultures, 1 with eggs; 1 vulture, black; 1 whydah, skin.
- NOVAK, FRANK, Fairfield, Connecticut.
- 3 Surf-scooters, skins.
- OSBORN, WM. CHURCH, New York City.
- 439 Bird skins.
- PERCIVAL, PHILIP H., Kenya Colony, British East Africa.
- 1 Greater Bustard; Africa.
- PHELPS, DR. GOUVERNEUR MORRIS, New York City.
- 1 European widgeon, skin.
- POTTER, R. B., New York City.
- 3 Birdskins; West Nyack, N. Y.
- ROSENBERG, W. F. H., London, England.
- 17 Birdskins; Ecuador.
- RUDDY, T. E., Bradford, Pennsylvania.
- 1 Great horned owl, skin.
- RUHE, LOUIS, New York City.
- 1 Bunting, skeleton; 1 bunting, snow, skeleton; 1 gray cardinal; 1 cassowary; 1 cockatoo, skeleton; 1 coly, skeleton; 1 coot, skeleton; 1 cow-bird, skeleton; 1 dove, skeleton; 2 finches, skeletons; 1 finch, zebra, skeleton; 1 goldfinch, European, skeleton; 1 greenfinch; 1 grosbeak, skeleton; 1 lark, skeleton; 1 linnet, skeleton; 3 lories, 2 skeletons, 1 skin; 4 love birds, 3 skeletons; 2 parakeets, skeletons; 2 parrots, 1 skeleton; 1 sandpiper, purple, skeleton; 1 tanager, skeleton; 1 troupiial; 13 waxbills, 5 skeletons; 10 weaverbirds, 4 skeletons; 1 whydah, skeleton.
- SALLEY, A. C., Lewiston, Maine.
- 9 Bird skins; Southeastern Brazil.
- SANFORD, DR. L. C., New York City.
- 92 Birdskins; 4 goshawks; 1 snowy owl; Fisher's Island, N. Y.
- SEBILLE, G., New York City.
- 3 Honey creepers; 1 tanager, skeleton; 1 tanager, swallow, skeleton; 1 troupiial, skeleton.
- THAYER, GERALD H., St. Vincent, British West Indies.
- 74 Birdskins; Barbados and St. Vincent, B. W. I.
- THORNE, E., New York City.
- 1 Murre; 6 scaup ducks.
- URNER, CHAS., Elizabeth, New Jersey.
- 1 Jaeger, skeleton; 1 Wilson petrel, skeleton.
- VAIL, DR. C. E., Miraj, S. M. C., India.
- 1 Curlew, stone, skin; India.
- 2 Hornbills, skins; India.
- 1 Egg of bustard; India.

VON LENGERKE, JUSTUS, Orange,
New Jersey.

1 Cooper's hawk, skin; Sussex
Co., N. J.

9 Goshawks, skins; Stag Lake,
N. J.

WASHINGTON, MISS LOUISE, Mend-
ham, New Jersey.

1 Small blue macaw (*Cyanop-
sitta spixi*), skin; 2 Bourke's
parakeets, skins; 5 parrots,
skins and body skeleton; 1
parrot, skeleton; 2 parrots,
Fiji Islands, 1 mounted, 1 skel-
eton; 1 parrot, short-tail, skel-
eton; 1 pheasant, skin and
body skeleton; 1 turaco, skin.

WOODRUFF, LEWIS B., ESTATE OF.

66 Sets of eggs; 143 nests and
eggs; 1,731 birdskins.

WUPPERMAN, J. W., New York City.

3 Honey creepers, skeletons; 1
euphonia.

BY EXCHANGE

FUERTES, L. A., Ithaca, New York.

1 Sage grouse (*Centrocercus*).

MEINERTZHAGEN, COL. RICHARD,
London, England.

5 Petrels.

MUSEUM OF COMPARATIVE ZOOLOGY,
Cambridge, Massachusetts.

1 Birdskin (*Ferminia cerverai*);
Cuba.

PRINCETON MUSEUM OF ZOOLOGY,
Princeton, New Jersey.

56 Birds; 1 owl, great gray,
body skeleton.

ROYAL NATURAL HISTORY MUSEUM
OF SWEDEN, Stockholm,
Sweden.

91 Specimens of European birds;
Europe.

SCHJÖLER, E. LEHN, Copenhagen,
Denmark.

114 Birds; Europe, Faeroes, Ice-
land, Greenland.

SENCKENBERG MUSEUM, Frankfurt
a/M., Germany.

4 Birds.

ZOOLOGICAL MUSEUM OF BERLIN,
Berlin, Germany.

27 birdskins.

BY PURCHASE

BATES, GEORGE L., London, Eng-
land.

123 Birds; Cameroon, West
Africa.

OLALLA AND SONS, Ecuador.

1,109 Birds; Ecuador.

2,353 Birds; Ecuador.

ROSENBERG, W. F. H., London,
England.

1 *Chalcurus chalcurus*; 1 *Myio-
phoneus melanurus*; 1 *Alo-
phoixus phæociphalus*.

WATKINS, HARRY, Peru.

100 Birds; Peru.

1,855 Birds; Peru.

BY EXPEDITION

CENTRAL ASIATIC EXPEDITIONS.

277 Birds; Mongolia.

CHAPMAN, DR. FRANK M.

4 Birds; Venezuela.

132 Birds and 1 nest; Panama.

GRISCOM, LUDLOW.

203 Birds; Yucatan, Central
America.

VERNAY ANGOLA EXPEDITION.

1 Albatross.

1 Petrel; alcoholic specimens.

43 Birds, skeletons; Angola,
Africa.

191 Birds in alcohol; Angola,
Africa.

1,056 Birds; Angola, Africa.

WHITNEY SOUTH SEA EXPEDITION
(Mr. R. H. Beck).

3,450 Birds; New Hebrides,
New Zealand, etc.

Number of skeletons and alco-
hols.

MAMMALOGY

BY GIFT

- ACKLAND, M., Monticello, New York.
1 Monkey (sumatran macaque).
- BARTELS, HENRY, New York City.
1 Tamandua.
- BEACH, WILLIAM N., New York City.
1 Caribou; Alaska.
- BROCKMELLER, H., New York City.
1 Grey squirrel (*Sciurus carolinensis*); Bethel, N. Y.
- BUCK, J. L., Camden, New Jersey.
1 Pangolin; West Africa.
- BUREAU OF FISHERIES, Washington, D. C.
4 Fur seal skeletons.
- CHAPMAN, DR. FRANK M., New York City.
1 Shrew; Tannersville, New York.
- COMPARATIVE ANATOMY, DEPARTMENT OF, Museum.
Skin of great anteater (*Myrmecophya* sp.).
- FAUNTHORPE, COL. J. C., London, England.
Skin and skeleton of 1 hog deer; India.
Skins and skulls of 2 four-horned antelopes; India.
Skin and skeleton of 2 hares; India.
- FERGUSON, HARRY, Fishers Island, New York.
4 Muskrats; Fishers Island, N. Y.
- FISHER, DR. G. CLYDE, New York City.
1 Young New York weasel; Greenwich, Conn.
- GEISLER, MAX, BIRD CO., New York City.
1 Saki monkey, 1 marmoset; Para, Brazil.
- HAZARIAN, ARTIN, New York City.
2 Skins of South American maned wolf with portions of the skulls; Brazil.
- HOWES, P. G., Greenwich, Connecticut.
3 *Myotis dominicensis*; Dominica.
2 *Tadarida antillarum*; Dominica.
- HUSSENIAN, MRS. AGNES, New York City.
1 French toy poodle, white, female; Springfield, Mass.
- INGERSOLL, ERNEST, New York City.
1 Western flying squirrel; Conklin, Alberta.
- IZQUIERDO, DR. JOSÉ, New York City.
1 Whale tooth.
- JOSEPH, ELLIS S., New York City.
1 Anteater, giant; 2 baboons; 1 baboon, *hamadryas*; 1 *eyra* cat; 1 fishing cat; 3 gazelles; 1 addra gazelle; 1 Semmering's gazelle; 1 hyaena; 1 spotted hyaena; 1 ibex; 1 leopard; 1 lynx caracal; 1 sheep.
- KLEIN, A. J.
1 Bongo skull; East Africa.
- LAFUENTE, MISS, New York City.
1 Marmoset.
- LEMLEY, RAY E., Scenic, South Dakota.
1 Black-footed ferret (*Mustela nigripes*); South Dakota.
- LIVINGSTON, GOODHUE, JR., New York City.
2 Tapir skulls (*Tapirella dowii*); Tela, Honduras.
- MACKLER, IRA, New York City.
1 Monkey skull.
- MORDEN, WILLIAM J., Chicago, Illinois.
5 Skins and skulls of sitatunga; Damba Island, Lake Victoria, Uganda.

NEW YORK ZOOLOGICAL SOCIETY,
New York City.

- 1 Agouti; 3 armadillos; 1 bear, Alaskan brown; 1 binturong; 1 cavy, Patagonian; 2 cheetah; 1 coati; 1 colt, wild ass; 1 deer, axis; 1 deer, white-tailed—Texas; 1 fisher; 2 fox, fennec—North Africa; 1 fox, red; 1 fox, South American; 1 galago; 1 gerbille; 2 grison; 1 hedgehog; 1 horse, Mongolian wild; 1 jaguar; 1 kangaroo, New Guinea; 2 kinkajou; 2 llama; 1 macaque, crab-eating; 1 marmoset; 1 marten; 2 monkeys, cebus; 2 monkeys, green; 1 monkey, mona; 1 monkey, owl; 2 monkeys, small; 1 monkey, Japanese red-faced; 1 monkey, sooty mangaby; 1 ocelot; 1 otter, Brazilian; 1 musk-ox—Greenland; 1 paradoxure—Malaysia; 1 pig, young red bush; 1 porcupine, South American; 1 porcupine, tree; 1 rabbit, snowshoe; 2 racoons; 1 rat, coypu; 1 sea lion, Californian; 1 seal, cape fur; 1 skunk; 1 squirrel; 4 squirrels, African ground; 1 squirrel, South American; 2 squirrels, palm; 1 tahr, female; 1 tamandua; 1 Tasmanian devil; 1 wallaroo; 1 woodchuck, black.

NICHOLS, JOHN T., New York City.
Skull of polar bear; Nome, Alaska.

Skull of walrus; Nome, Alaska.

PARKS, DEPARTMENT OF, New York City.

- 1 Baboon, *hamadryas*; 2 bison; 1 black bear; 1 brown bear; 1 sun bear, Malay; 1 camel, young; 1 deer, white-tailed; 1 elk, bull; 1 gnu, white-tailed;

1 kangaroo, great gray; 1 llama; 1 sea lion; California.

RODGER, MISS M., New York City.

- 1 White marmoset (*Callithrix chrysoleuca*); Brazil.

RUHE, LOUIS, New York City.

- 1 Gibbon; 1 kangaroo; 1 tapir, Indian; 1 zebra, mountain.

SETON, E. T., Greenwich, Connecticut.

- 4 Hares, jack; 1 mouse, white-footed; 8 rabbits, western cotton-tail; 1 skunk.

STEWART, MRS. GLENN, Easton, Maryland.

- 1 Irish wolfhound (Ballyshan-non).

STOCKMAN, A. RANDOLPH, New York City.

- 1 Toy Pomeranian, female.

THURSTON, HARRY, Montrose, New York.

- 1 Star-nosed mole; 1 weasel; Montrose, N. Y.

TWEEDY, A. M., Ecuador.

- 2 Spectacled bears; Ecuador.

VAIL, DR. C. E., Miraj, S. M. C., India.

- Skin and skeleton of tahr; Kodai Kanal, India.

WAGNER, HENRY, Richmond Hill, Long Island.

- 1 Albino kolinsky; 1 albino squirrel.

WALKER, LEWIS, Douglas Manor, Long Island.

- 1 Meadow mouse; Flushing, L. I.

BY EXCHANGE

MARIO, BROTHER HERMANO NICEFORO, Bogotá, Colombia.

- 1 Anteater; 2 bats; 1 deer; 1 porcupine, prehensile-tailed; 1 shrew, short-tailed; 175 mammals—Colombia.

UNITED STATES NATIONAL MUSEUM,
Washington, D. C.

Cast of sperm whale skull,
young (*Physeter catodon*).

BY PURCHASE

ANTHONY, A. W.

15 Small mammals; Guatemala.

COLORADO MUSEUM, Denver, Colorado.

4 Southern sea lions, skins,
skulls and legbones.

Fox, H. E., Port Monmouth, New
Jersey.

1 Harbor seal; Port Monmouth.

OLALLA Y HIJOS, Ecuador.

1,133 Mammals; Ecuador.

SALSBERG, CLARENCE G.

1 Bat; Hainan, China.

1 Gibbon; Hainan, China.

SODERSTROM, L., Ecuador.

12 Fish-eating rats; Ecuador.

WATKINS, HARRY, Peru.

111 Mammals; Peru.

BY EXPEDITION

AMERICAN MUSEUM GREENLAND EX-
PEDITION (Mr. H. C. Raven).

41 Mammal specimens; Green-
land.

ANTHONY AND GOODWIN EXPEDITION
TO WEST INDIES.

304 Bats; Porto Rico.

Fossil mammals.

ARCTURUS EXPEDITION OF THE NEW
YORK ZOOLOGICAL SOCIETY.

*1 Porpoise, skull; 1 sea lion,
skeleton; 1 goat, skeleton—
all from Galapagos.

3 Whales, killer, skulls and
bones.

BURDEN, W. DOUGLAS, EXPEDITION.

5 Bats (alcoholic); 1 mouse (al-
coholic); 1 rat, skin only; 1
shrew (alcoholic); Komodo.

CENTRAL ASIATIC EXPEDITIONS (MR.
Pope, Mr. Andrews and Mr.
Granger).

1,297 Mammal specimens; China
and Mongolia.

FAUNTHORPE, COL. J. C., London,
England.

2 Leopards; India.

MORDEN-CLARK ASIATIC EXPEDITION.

27 Skins and skulls of Marco
Polo's sheep, with one skel-
eton; 1 marmot, skin; 1 fox,
skin.

TATE BOLIVIAN EXPEDITION (MR.
G. H. H. TATE).

624 Mammal specimens; Bolivia.

VERNAY ANGOLA EXPEDITION (Mr.
Herbert Lang).

118 Mammal specimens; South
Africa.

ANTHROPOLOGY

BY GIFT

ANDREW, MRS. HENRY HERSEY, New
York City.

Old Japanese fireman's costume;
Japan.

ANDRUS, WILLIAM, ESTATE OF.

800 Archæological pottery speci-
mens; New Mexico.

ANONYMOUS.

1 Stone axe.

BARAGWANATH, J. G., New York
City.

55 Silver objects; Peru.

BARFIELD, D. G., Berlin, Oklahoma.

1 Stone-top grinder from a me-
tate.

BECKWITH, DR. MARTHA W., Pough-
keepsie, New York.

Baskets, mats, etc.; Jamaica.

BECRAFT, E. P., Springfield, Massa-
chusetts.

Samples of various materials
found in Demariscotta shell
mound; Maine.

BEEBE, WILLIAM, New York City.

1 Wooden decoy turtle; Porto
Bello, Panama.

- BROWER, CHARLES DE W., Barrow, Alaska.
1 War club; Cape Halket, Alaska.
- BROWNING, MRS. J. E., New York City.
2 Baskets; Alaska.
- BUHNER, L. D., New York City.
2 Ethnological specimens; South Seas.
7 Ethnological specimens; Alaska.
1 Archæological specimen; North America.
- CAMPBELL, GEORGE W., Camp Verde, Arizona.
Archæological specimens; Camp Verde, Arizona.
- CAMPBELL, LINDSAY, San Francisco, California.
9 Pictures of the Apache.
- CATZ, DONALD, New York City.
Sword and scabbard with small dart attached; Java.
- COOK, MRS. MARGUERITE, Elgin, Illinois.
1 Calvarium; Egyptian Meerab, Egypt.
- DACINO, JOSEPH J., U. S. S. Memphis.
1 Piece of Samoan tapa cloth; Samoa.
- DAVIDSON, DAVID, New York City.
Cane of rhinoceros skin; Bevia, Delago Bay, Portuguese East Africa.
- DE COSMA, FRANK, New York City.
Tibia, femur, calvarium, of white woman; Hudson Park, New York.
- DE WEESE, A., Philadelphia, Mississippi.
Piece of woven tape; clay vessel; teeth; near Philadelphia, Miss.
- DIAZ, EMILIO CASHALL, New York City.
Model of a Japanese garden.
- EDE, J. A., La Salle, Illinois.
1 Flint implement; Wyoming.
- FLOWER, ALBERT H., Riverside, Connecticut.
1 Stone idol; Mexico.
- FORSYTH, E. W., Andros Island.
3 Celts; Southern Andros Island.
- GENNETT LABORATORIES, New York City.
6 Gennett records of Hopi songs; Southwest.
- GODDARD, DR. P. E., New York City.
1 Woven band; Peru.
- GREEN, MRS. F. V., Secretary "Sorosis," Nyack-on-Hudson, New York.
15 Mound-builders' implements; Bourbon County, Kentucky.
- HAAS, DR. SIDNEY V., New York City.
1 Piece of pottery; Puye, New Mexico.
- HARDING, H. T., Walla Walla, Washington.
4 Sacks of flint implements; Columbia River region.
- HAY, CLARENCE L., New York City.
7 Cases archæological specimens; Panama.
4 Miniature Mexican figures; Mexico City.
- HOLT, CHARLES W., Jersey City, New Jersey.
1 Pestle; Santo Domingo.
- IZQUIERDO, DR. JOSÉ, New York City.
Human skull and pottery fragments; Caracas, Venezuela.
- JULIAN, R. L., New York City.
2 Implements used by Flagelantes at Manila.
9 Photographs; Hawaii.

- KAEPPEL, MRS. M., New York City.
1 Large and 2 small knives in plush sheath; Abyssinia.
- KAHN, MORTON C., New York City.
1 Palm fibre Indian baby carrier; Mazaruni River, British Guiana.
- LAMBERT, GEORGE, Jamaica, Long Island, New York.
3 Arrowheads; Jamaica, Long Island.
- MCALLENAN, MRS. ARTHUR, New York City.
1 Saddle; Mexico.
- MAUTERSTOCK, MISS ALICIA, New York City.
11 Flint points; Tivoli, New York.
- MILBANK, DUNLEVY, AND MILBANK, JEREMIAH, New York City.
125 Specimens—Collection, mostly weapons from the Moro; Philippines.
- MILLER, A. P., Needles, California.
22 Photographs of carvings on the rocks of Grapevine Canyon, Nevada.
- MITTELSTAEDT, DR. CHARLES B. J., New York City.
Hat and pipe; Philippine Islands.
Cane; Japan.
- MORRIS, DR. L. R., New York City.
2 Indian baskets; North America.
2 Engraved walrus tusks; Siberia.
1 Wooden spoon.
- MUNCH, E., New York City.
5 Specimens; China, Samoa, New Guinea.
- Ogilvie, MISS GLADYS, New York City.
1 Klikitat basket; 1 Chilkat basket; 1 painted rawhide bag; 1 painted rawhide box, North America.
- OTTOMANELLI, MICHAEL, New York City.
51 Specimens of stone implements.
- PALMER, CLARENCE C., Willimantic, Connecticut.
Molar of Uncas; Connecticut.
- PELTZ, W. I. L., Albany, New York.
1 Birch bark canoe; Canada.
- PHILLIPS, MISS ELIZABETH M., Falley by Cody, Wyoming.
1 Parfleche, painted; Wyoming.
- PIX, MRS. ALICE J., New York City
2 Pots from Colombia; procured in Canal Zone.
- PLUMB, MISS MARGARET GRANT, New York City.
2 Pottery vessels.
- POLLOCK, MRS. CHANNING, New York City.
5 Bags; 3 skirts; 1 mat; 1 poi ball—Maori, New Zealand and vicinity.
- PRATT, GEORGE D., Glen Cove, Long Island.
1 Breastplate; 1 shirt, and 2 tobacco bags; Sioux or Assiniboin, North America.
- QUIMBY, ISAAC N., Jersey City, New Jersey.
3 Boxes containing skeleton material, fragments of pottery and stone implements.
- REED, E. E., Monticello, Iowa.
11 Small fragments of pottery; near Monticello, Iowa.
- SHELTON LOOMS, THE, New York City.
19 Swathes of cloth in fur designs; United States.
- SKINNER, H. D., Dunedin, New Zealand.
1 Fan of fibre; Manahiki.
- STROSS, MRS. LUDWIG, Englewood, New Jersey.

The late Ludwig Stross collection of armor, firearms, spears, clubs, shields and knives; Persia, Abyssinia, Pacific Is.

2 Message sticks; Western Australia.

SULZER, MRS. WILLIAM, New York City.

2 Frames with a series of photographs; 1 frame with a single photograph; 11 ethnological specimens.

THOMSON, ALBERT B., New York City.

1 Metate and 1 stone; Sioux County, Nebraska.

TUSKA, GUSTAVE, New York City.

2 Barrels of pottery; Panama.

VON FALKENBERG, MR. F., Brooklyn, New York.

3 Small lots of archæological specimens; Florida.

VON LUSCHAN, MRS. EMMA, Munich, Germany.

4 Ethnological specimens; Australia.

WARBURG, FELIX M., New York City.

Von Luschan anatomical collection and private library.

WASHBURN, DOCTOR, Hastings-on-Hudson.

1 Grooved stone axe; Lower Chesapeake.

WIMPELBERG, MARCUS, New York City.

1 Kalabash pipe.

WOODS, MRS. F. A., New York City.

3 Photographs of Indians, taken 30 years ago; Northwestern United States.

ZUKOR, ADOLPH, AND LASKY, J. L., New York City.

Ethnological collection including one canoe; Samoa.

BY EXCHANGE

GOODWIN, G. G., New York City.

Collection of archæological specimens; Porto Rico.

SPENCER, SIR BALDWIN, Melbourne, Australia.

150 Fine photographs of Australian natives; Australia.

STANLEY BOYS, Sicamous, British Columbia.

7 Drawings and 4 snapshots of Indian rock; Shuswap Lake.

BY PURCHASE

ABBOTT, MISS BEATRICE, New York City.

1 Blanket; Navaho.

EMMONS, LT. G. T., Princeton, New Jersey.

1 Salish Blanket; Northwest Coast, United States.

HINKHOUSE, PAUL M., Chicago, Illinois.

2 Inscribed bamboo cylinders; Sumatra.

1 Gourd and wicker bottle; Sumatra.

KOPITOFF, MICHAEL DIANOFF, Siberia.

244 Stone objects.

RUMMAGE THRIFT SHOP, New York City.

1 Gun; Japan.

SPECK, DR. FRANK G., Gloucester, Massachusetts.

Ethnological collection of 72 specimens; Naskapi, Labrador.

PERMANENT DEPOSIT

PETERS, MRS. WILLIAM J., New York City.

1 Piece tapa cloth; 9 mats; 2 mats—South Sea Islands.

TIDBALL, MISS MABEL, New York City.

Collection from Alaska Indians made previous to 1872.

BY EXPEDITION

AMERICAN MUSEUM GREENLAND EXPEDITION (Mr. Raven).

20 Skulls and bones; Greenland and Baffin Bay.

CENTRAL ASIATIC EXPEDITIONS (N. C. Nelson).

Archæological and ethnological collection; Gobi Desert, Mongolia.

GODDARD, DR. P. E., Museum.

1 Basket, Hopi Indians.

MAMMALOGY, DEPARTMENT OF (Mr. Herbert Lang).

18 Archæological specimens; South Africa.

Skeletons, skulls, etc.

MORRIS, EARL H., New York City.

10 Cases of archæological specimens; Canon de Chelly, Arizona.

32 Archæological specimens; Camp Verde, Arizona.

THOMPSON, MRS. WM. WM. BOYCE, EXPEDITION (Mr. Erich Schmidt, New York City).

Archæological collection; Eastern part of "Lower Gila Region", Arizona.

COMPARATIVE ANATOMY

BY GIFT

BARTELS, HENRY, New York City.

1 Tapir, South America.

HOLTON, OLIVER, Middletown, New Jersey.

1 Orang-utan, Borneo.

1 Gibbon, Borneo.

JOSEPH, ELLIS S., New York City.

1 Anteater, giant (*Myrmecophaga jubata*), South America.

4 Baboons; 2 baboons, *hamadryas*, Africa; 2 hyænas, Africa; 1 kangaroo, Australia; 1 llama, young; 1 macaque; 1 mandrill, Africa; 1 mangabey; 2 monkeys, green,

Africa; 2 monkeys, green (*Erythrocebus*), Africa; 1 monkey, putty-nosed, West Africa; 1 ostrich; 1 pelican, Egyptian.

KESSLER, FRED, New York City.

1 Half-section pig skull, mounted.

MANNHARDT, PROF. ALFRED S., New York City.

1 Skull (*Genetta*), Africa.

NEW YORK AQUARIUM, New York City.

4 Mud-puppies; 1 sand shark.

NEW YORK ZOOLOGICAL SOCIETY, New York City.

1 Agouti, golden; 1 binturong, East Indies; 1 civet, palm (*Paradoxurus*), East Indies; 1 deer, mouse, India; 1 deer, mouse (*Tragul*), India; 2 eels, conger, India; 1 horse, Przewalsky; 1 king penguin; 1 loris, slow, Borneo; 1 macaque, Java; 1 marmoset, South America; 1 marmoset, common; 1 monkey, Campbell; West Africa; 2 monkeys, green; 1 monkey, Java—Java; 1 monkey, weeper—South America; 4 opossums, Eastern United States; 1 opossum, common—Eastern North America; 2 opossum, Virginia—Eastern United States; 1 potto; 1 python, rock; 1 raccoon; 1 snake, Congo, Africa; 1 wallaby, New Guinea; 1 wallaby (*Thylagale*), New Guinea.

PATTEN, MRS. GEORGE M., New York City.

1 Half of lower jaw of wolf-eel, Maine.

RUCKES, DR. HERBERT, New York City.

1 Fish (*Cyprinodontus*).

TROTTER, MISS ELIZABETH S., Philadelphia, Pennsylvania.

- 1 Skeleton of sturgeon, Santee, South Carolina.

BY EXCHANGE

AUSTRALIAN MUSEUM, Sydney, Australia.

- 2 Satin bowerbirds, nest and material; Clarence River District, Australia.

ST. BARTHOLOMEW'S HOSPITAL and COLLEGE, London, England.

- 2 Specimens of *Tarsius*.

COLLEGE OF PHYSICIANS AND SURGEONS, New York City.

- 1 Human skeleton, incomplete.

UNIVERSITY OF OXFORD, Oxford, England.

- 2 Microscopic slides of scales of *Megalichthys*.

UNIVERSITY OF ADELAIDE, Adelaide, South Australia.

- 2 Kangaroo skulls; Kangaroo Island, Australia.

BY PURCHASE

DAMON, R. F., AND Co., London, England.

- 1 Cast of Galilee Skull.
- 1 Cast of Galilee Skull, endocranial.
- 1 Cast of London Skull.
- 1 Cast of London Skull, endocranial.
- 1 Cast of Rhodesian Man, endocranial.

STILLMAN, C. C., ESTATE OF.

Skeleton of Morgan horse, mounted.

BY EXPEDITION

AMERICAN MUSEUM GREENLAND EXPEDITION (MR. H. C. RAVEN).

- 1 Polar bear skull and mandible; Greenland.
- 3 Esquimo dog skulls and mandibles; Greenland.

- 3 Arctic fox skulls and 2 mandibles; Greenland.

- 1 Arctic hare, skull; Greenland.

- 2 Narwhal, 1 head and brain, 1 fœtus.

- 2 Seals; Greenland.

- 2 Walruses, 1 brain only.

BURDEN, WILLIAM DOUGLAS, EXPEDITION.

- 1 Phalanger; Wetlar, East Indies.

- 1 Phalanger pouch young; Wetlar, East Indies.

- 1 *Paradoxurus*; Wetlar, East Indies.

CENTRAL ASIATIC EXPEDITIONS.

- 1 Skull of horse, Mongolian pony; Mongolia.

PUBLIC EDUCATION

BY GIFT

AKELEY, CARL E., New York City.

- 400 Feet of unexposed motion-picture film.

AMERICAN BOOK COMPANY, New York City.

- 1 Copy "New Civic Biology" by Geo. Wm. Hunter (Request of Dr. Hunter).

ANONYMOUS.

- Specimens of mineral, woods, shells.

ARMOUR AND COMPANY, Chicago, Illinois.

- 54 Slides of packing-house scenes and processes.

BRITTON, MRS. N. L., New York City.

- 1 Uncolored lantern slide, "Please leave the dogwood for others to enjoy."

BURDEN, W. DOUGLAS, New York City.

- 1 Negative of collared lizard (*Crotaphytus collaris*).

CHENEY BROTHERS, New York City, Educational silk exhibit.

- CLARK, JAMES L., New York City.
138 Slides, principally of public buildings in various parts of the world.
- DAWSON, ALBERT K., New York City.
50 Colored lantern slides.
13 Plain slides.
- DUNSING, WILLIAM J., Woodhaven, New York.
Glass case of mounted specimens, 27 birds and 2 squirrels.
- ENCYCLOPÆDIA BRITANNICA, INC., New York City.
14 Negatives on "Development of Tadpole" (Through James A. Anderson).
- EXPLORERS CLUB, New York City.
87 Books.
78 Books, from the library of the late Alfred D. Lenz.
- FOWLER, MRS. F. DIXON, Beechhurst, Long Island.
1 Male Maryland yellow-throat warbler; Long Island.
- GENERAL ELECTRIC COMPANY, Schenectady, New York.
55 Plain lantern slides with manuscripts.
- GREENFEST, GEORGE, AND MARTIN BOYLE, New York City.
1 Canary, partial albino.
- HAHN, N. E., New York City.
1 Barred owl, mounted.
- HORN, MISS MARY A., Arverne, New York.
1 Myrtle warbler in flesh.
- KAUNITZ, MRS. ROSE B., Brooklyn, New York.
1 Reel motion-picture positive "First Aid in the Home."
- KINSEY, DR. ALFRED C., Bloomington, Indiana.
1 Copy "An Introduction to Biology," by Alfred C. Kinsey.
- KLENKE, JOHN, Schenectady, New York.
28 Plain slides.
1 Manuscript.
- LENZ, ALFRED D., ESTATE OF. (Through Explorers Club).
916 Negatives.
- MAX, MARK, JR., Long Beach, Long Island.
1 Snowy owl.
- ORNITHOLOGY, DEPARTMENT OF. (Transfer).
2 Albatross skins; 9 canaries; 1 European flamingo; 1 horned toad; 161 native birds; 734 native birds' skins; nests and eggs of common birds; 1 mounted white-winged scoter.
- OVERTON, DR. FRANK, Patchogue, Long Island.
2,791 Glass negatives.
- PAINTER, K. V., Cleveland, Ohio, and CLARK, JAMES L., New York City.
4,500 Feet motion picture negative of Africa.
- PAMPERL, CHARLES, Barre, Vermont.
1 Starling.
- PEASE, HORACE, New York City.
1 Mounted duck hawk.
1 Mounted plover.
- PRATT, GEO. D., New York City.
1 Reel motion-picture positive, "Cycle of the Oyster."
1,600 Feet motion-picture positive, "Natural Wonders and Game of Yellowstone Park."
- PRATT, PHILIP H., and GLADYS L., New York City.
15 Reels of negative and 15 reels of positive of motion pictures of the Everyday Life of the People in France.
- PUBLIC SCHOOL 42, Queens, Arverne, New York.
2 Saw-whet owls; 1 Virginia rail; 1 golden-crowned kinglet; 1 fox sparrow; 2 song

sparrows; 2 starlings; 4 hermit thrushes; 2 myrtle warblers.

RUHE, LOUIS, New York City.

46 Canaries; 1 cockatoo, rose-breasted; 3 finches; 5 gold-finches; 11 parakeets; 2 parrots; 1 fox sparrow; 1 starling; 3 weaver birds.

SMITH, L. W., Babson Park, Massachusetts.

2 Blue jays; 1 chickadee; 1 meadow mouse; 5 mice, white-footed; 1 mole shrew; 2 nests; 1 red squirrel; 6 starlings; 2 northern shrike.

STOPENHAGEN, F. W., New York City.

1 Mounted ruffed grouse in glass case.

STRONG, B., New York City.

10 Booklets on "Three Textile Raw Materials and Their Manufacture."

THOMAS, LESTER, New York City.

2 Bird nests.

BY PURCHASE

ADAMS, M. P., Greenwood, New York City.

485 Feet Motion-picture positive of *Platypus*.

APOLLO FILM CORP., Newark, New Jersey.

850 Feet motion-picture positive, "Toad Traits."

DOMESTIC SUGAR PRODUCERS, INC., New York City.

1 Book on "Something about Sugar."

FISHER, WILLIAM H., Baltimore, Maryland.

1 Negative of Florida king snake.

TOWER, MRS. BESSIE W., New Rochelle, New York.

1 Mounted screech owl.

URBAN-KINETO CORP., Irvington, New York.

19 Reels motion-picture positive.

BY EXPEDITION

LUTZ, DR. FRANK E.

4,000 Feet motion-picture negative of insects; Tuxedo, New York.

4,000 Feet motion-picture positive of insects; Tuxedo, New York.

PERMANENT DEPOSIT

COMMISSIONER FOR AUSTRALIA, MR. J. A. M. ELDER.

6,081 Feet motion-picture positive of Australia.

ADMINISTRATION WOODS AND FORESTRY

BY GIFT

VAN NAME, WILLARD G., New York City.

12 Photographs (4½ inches by 7½ inches) of notable trees and sections of the National and other forests in California.

ART

BY GIFT

HARRINGTON, MRS. MARY E., ES-TATE OF.

2 Portraits of dog, French Poodle "Imshi"; larger by Joel Mott Allen, 1904; smaller by A. Thomasse, Paris.

KEILING, MR., East Orange, New Jersey.

1 Painting, "Owls," by Robert Havell.

III ADMINISTRATION, OPERATION AND BUILDING

GEORGE H. SHERWOOD, Acting Director

The present Museum building is composed of eleven sections, which have a contents of 13,900,000 cubic feet and a floor area of sixteen acres. The windows number 1,304, and contain 65,200 square feet of glass. The area of the plate glass in the exhibition cases adds hundreds of thousands of square feet to this amount. The physical care and operation of a plant of this size and proportion calls for great activity and high efficiency in its operating force, in order to keep it in proper shape to effectively serve the public. The cleaning of the floors and the plate glass alone is a matter of constant vigilance. Approximately one-half of the 450 employees of the Museum are engaged in these often unseen activities which are so essential to the proper presentation of the scientific and educational work of the Museum.

The past year has been one of great internal activity because of the rearrangement of several of the old exhibition halls and the preparation for the opening of halls in the new buildings. This situation has called for continuous and concerted effort on the part of all our operating divisions, and the sum total of the progress recorded can be viewed with satisfaction. Efforts have been made not only to improve the installation of the exhibits but to add to the comfort of the ever-increasing flow of visitors. The popularity of the Museum and the extent of its influence are indicated in the following table giving comparative statistics of attendance.

STATISTICS OF NUMBERS REACHED BY THE MUSEUM AND ITS EXTENSION EDUCATIONAL SYSTEM

	1922	1923	1924	1925	1926
Board of Education Lectures	16,711	18,917	26,484	26,968	10,460
Lectures to School Children and classes visiting the Museum for Study	118,651	134,669	139,433	133,386	138,514
Meetings of Scientific Societies and Other Meetings and Lectures	17,610	31,734	22,637	37,389	34,976
Total	152,972	185,320	188,554	197,743	183,950
Attendance in Exhibition Halls	1,156,884	1,246,402	1,445,289	1,578,147	1,886,315
Total attendance for all Purposes	1,309,856	1,431,722	1,633,843	1,775,890	2,070,265

STATISTICS OF NUMBERS REACHED BY THE MUSEUM AND ITS
EXTENSION EDUCATIONAL SYSTEM—Continued

	1922	1923	1924	1925	1926
Lectures to Pupils in Local Centers	58,647	22,598	24,792	27,055	33,255
Number reached by Motion Picture Service		85,302	115,849	333,097	530,955
Number reached by Lantern Slide Service	2,582,585	3,839,283	5,407,525	3,941,494	4,358,423
Numbers reached by Circulating Collections	1,648,608	1,491,021	1,247,914	977,384	798,382
Grand Total	5,599,696	6,869,926	8,429,923	7,054,920	7,791,280

The Acting Director has been relieved of many arduous duties through the assistance and advice of Honorary Director Lucas, who has been enabled to give attention to certain exhibits, which have been temporarily without supervision. Dr. Lucas reports as follows:

“The large addition to the collection of Auduboniana made by Misses Maria and Florence Audubon early in the year has necessitated a complete rearrangement of the exhibit, and the Audubon Gallery now occupies more than double the space it did. The larger number of the oil paintings have been cleaned and many of them have been placed under glass, while the copper plates have been cleaned, lacquered, and also placed under glass.

“The rearrangement has made it possible, to a great extent, to segregate the work of Audubon, and his son, John Woodhouse Audubon, as well as the plates by his engraver, Robert Havell.

“The gifts of Robert Havell Lockwood and of Mr. Keiling have added to the collection a portrait of Havell and two of his paintings.

“The work of replacing the old labels on the trees of North America, begun some years ago, has been completed, these having been added, or replaced, during the past two years,—240 individual labels—every specimen now bearing a label.

“In addition, twenty-one general, descriptive labels, giving the general characters, distribution, and principal uses of various groups of trees, have been provided.

“Mr. Narahara has reproduced eight sprays of foliage, which add much to the attractiveness of the exhibits while also enabling visitors to identify the trees thus represented by their leaves or

flowers, for wherever practicable the same tree is represented in summer and autumn spray.

“The skeletons of the Sperm Whale and California Gray Whale have been mounted during the year, and the Fin-back and Right Whales transferred to the new hall, extensive changes being made in the latter skeleton.

**Hall of
Ocean Life**

“The groups of Steller’s Sea-lion, Fur Seal and Sea Elephant have been finished and only await the glass to be placed on exhibition.

“Provision has been made for hanging the casts and skeletons of the smaller cetaceans, but it has been deemed best to retain them in their present location until the Hall of Ocean Life can be opened.

“Owing to the numerous changes in the exhibition halls, due to taking possession of the New Wing, the collection of Primates has been practically at a standstill, although the group of African Pygmies has been moved to its new quarters and provided with a background, by Mr. Charles Corwin.

“The total of sales of publications during the year was 16,825 copies; 1,727 *Handbooks* were sold in the Museum, and 1,070 by the Library; 11,035 *Leaflets* were bought by visitors, and 2,019 sold by the Library, while the sale of various reprints, aside from the popular ‘Nature Trails,’ was 974. In addition, 3,150 copies of the ‘General Guide’ were sold, as well as 4,500 copies of the little ‘Hour in the Museum’ and 1,040 of the Guide-Note-Book, which is in demand by visitors. The great difficulty in handling the so-styled popular publications is to keep them in stock, owing to the many demands upon the printing department. However, in spite of the congestion, a Temporary Guide, and ten leaflets, including five new ones, were issued during the year, making a total of 27,300 copies.”

**Popular
Publications**

The Acting Director has been greatly assisted in his many varied and taxing responsibilities by the effective services of Assistant Secretary Faunce. Not only has Mr. Faunce taken over the entire supervision of all membership work and the details of many of the other duties of the Executive Secretary,

but he has been of great assistance in the general administration of the Museum. Especially has he relieved the Acting Director of many detailed matters of construction and equipment, for which his training as a mechanical and electrical engineer especially fit him. The Acting Director is pleased to report that the Trustees have recognized Mr. Faunce's ability by appointing him Assistant to the Director as well as Assistant Secretary, and they have also made him Chairman of the Committee on Operation, Construction and Transportation.

WORK OF THE REGISTRAR

Mr. George N. Pindar has discharged the duties of Registrar with his customary faithfulness and efficiency and has continued also to render invaluable service to the Museum as Secretary of the Pension Board and Welfare Committee, and as Chairman of the Public Information Committee. The report of the activities of his department follows:

"The continued interest of the many friends of the American Museum is best evidenced by their generosity in placing at our disposal gifts of material desired for scientific research or for exhibition to the hosts of visitors who have filled our halls throughout the past year.

Accessions

"When the information went forth in the early part of the year that the Museum Administration was without funds to maintain field workers, we sought consolation in the old adage that 'moderation is the noblest gift of heaven'; however, as the year progressed it was found that generous support for the advancement of the educational interests of the Museum was forthcoming in an ever-increasing degree, so that the close of the year witnessed the maintenance of more expeditions (thirty-four) and more widely distributed than in any previous year of the Museum's history. The total number of accessions to Museum's collections was 887, divided as follows: by gift, 649; by purchase, 74; by exchange, 64; by expedition, 88; by transfer, 12. The importance and value to the several departments of the collections received are contained in the individual reports of the particular departments, to which you are especially referred.

“It was expected that the employees of this division of the Department would have time to devote to work which **Shipments** has accumulated throughout the passing years, but the increasing number of shipments arriving from day to day has prevented doing this work.

“During the year there were received and sent out 3,688 shipments, comprising 14,241 pieces exclusive of all the material received through the post. The fact should not be overlooked that the employees engaged in packing material for shipment have been kept exceedingly busy, for we find that during the year it was necessary to encase 306 shipments, consisting of 501 packages, and to handle sixty-nine bonded shipments, consisting of 396 pieces which had to be delivered to the respective departments. Added to this, our delivery truck traveled 3,585 miles, making 650 individual stops. All the above work has been performed with great faithfulness and efficiency, quite without regard to stated working hours where haste was necessary, and the several employees are to be commended for the genuine interest they have shown in this particular division of the Museum’s work.

“The work covered by this department is not by any means encompassed by the items above mentioned. In addition to the recording and cataloging of accessions, this office has directed the work of the Pension Fund, health and welfare activities, all of which work has been conscientiously and expeditiously taken care of by the Misses Newman and Graefe, whose efficiency in the performance of their duties is most heartily appreciated and commended.

“Another activity of the department consists of giving out public information to the press and to individuals concerning Museum affairs, and this portion is contained in a separate report.”

CONSTRUCTION AND MAINTENANCE IN 1926

In looking back over the work accomplished in 1926, one is impressed by the large number of small items of new construction and maintenance which have been given attention by the Museum’s mechanical and electrical forces. The volume of

general repairs, replacements and maintenance in a group of buildings of the age of the Museum, with sections built from one to fifty years ago, is bound to increase as time goes on. Taken individually, many of these items seem of relatively small importance, but in the aggregate they involve a tremendous amount of our workers' time and a large expense for materials. Resurfacing of floors, painting, reupholstering, removal of obsolete wiring, replacement of plumbing and heating lines, and the overhauling and replacement of mechanical and electrical equipment are making ever-increasing demands on us. Nevertheless, we feel that during 1926 a splendid showing has been made by our inadequate force, and we desire here to express our appreciation of the fine coöperation the employees of the departments of Construction and of Heating and Lighting have given.

Under appropriations by the City of New York for special items of construction, a gratifying amount of work has been done. The largest and most important single piece of construction work finished during the year, was the School Service Building. The City of New York appropriated \$733,800 to provide for the erection of this new section, including intercommunicating passageways, and \$150,000 for the equipment of the building. Early in the autumn of 1926 the general contractors, Lustig and Weil, turned the School Service Building over to the City. Through the zealous efforts of the Bursar's Office, practically all of the purchasable equipment has been secured and installed. A long list of special equipment for this building will be constructed by our own mechanical and electrical shops. With walls of Caen stone, imitation Sienna marble columns, and a beamed and paneled ceiling in ivory white, the decoration of the large exhibition hall on the first floor, which will be known as Education Hall, now stands completed. Plans are being worked out for installing therein, by the Maxwell Memorial Association, a striking memorial to Dr. William H. Maxwell, first Superintendent of Schools in New York City. The memorial will grace the west end of this magnificent room.

As a fitting approach to the School Service Building, such a notable addition to the Museum plant, the Bickmore Memorial Corridor was conceived by the President. In this, the main entrance to Education Hall, will be placed the bust of Albert

S. Bickmore, who instituted the School Service of the American Museum. A marble tablet indicating the Benefactors of the school service work, as well as one for the Great Educators of history, will also be placed here. Marble benches will permit visitors to the Museum a moment of rest as they approach beautiful Education Hall.

The Board of Estimate and Apportionment has approved the erection of two permanent motion picture booths on the west of and outside the duplex lecture hall on the second floor of the School Service Building. Considerable electrical work, in providing illuminated directory and exit signs, the extension of the Museum's fire alarm system, and the running of lines to energize the new electrical equipment, has been undertaken by the Department of Heating and Lighting. This work, as well as all other electrical, heating, lighting and plumbing work throughout the entire Museum building, has been supervised and directed by Mr. Henry J. Langham, Chief Engineer. Facing ever-increasing demands on a force not increasing proportionately, Mr. Langham has most ably scheduled the work of his department.

Case construction in the new Hall of Ocean Life and Southeast Wing, under special City appropriation, has made a notable advance. The lighting fixtures for these two new sections of the building were installed during the summer. The construction of a temporary screen partition across the floor of the Hall of Ocean Life will permit of opening this hall in part to the public early in 1927. Work on the construction of the great Coral Reef Group at the west end of the Oceanic Hall has been commenced by the Department of Construction in coöperation with the Departments of Preparation and Lower Invertebrates.

The lighting of several of the storerooms in the attic of the new Southeast Wing has been remodeled to meet shelving conditions. On the next lower floor, laboratories have been supplied with specially constructed equipment, including a type of cement aquaria table designed by Mr. Beers, Chief of Construction. At an early date it is planned to admit the public to the great Dinosaur Hall on the fourth floor of this section. Several large mounts in this striking hall are being provided with glass

cases to exclude dust. The elimination of all the original steam heating radiators in this hall in order to obtain a maximum of wall exhibition space necessitated the installation, under outside contract, of two high capacity forced draft radiators. These are in operation. Dropping down another floor, one finds the Reptile Hall nearing completion. Seventeen new floor cases have been manufactured, and plans are being prepared with a view to installing shallow cases in the cloister wall openings on the west side of this room, with provision for darkening the cloister. The Cypress Swamp Group has been moved to the new Reptile Hall, and its installation and lighting are nearly completed. Metal and glass fronts for the reptile habitat groups in the cloister have been set.

While several new cases for floor groups for the Asiatic Hall on the second floor of the Southeast Wing have been completed, they have not yet been assembled because the space they would occupy has been needed as workroom for the Department of Preparation now in residence there. Extensive case construction has gone forward in the Fish Hall on the first floor of this wing. Shallow wall and alcove cases for systematic collections have been built and existing ones remodeled. Floor cases, deep wall cases for the Zane Grey collection of game fishes, and a fireproof wall to form the case for the Deep Sea Group in seven panels, have been constructed. The illumination of these cases is now being worked out.

Mr. Harry F. Beers, Chief of Construction, has given close supervision to all our construction and installation problems, whether maintenance, corporate stock projects, or outside contracts. Like all other Museum administrative departments, Mr. Beers' department has expanded rapidly in the last few years to take care of the vastly increased demand. His tactful administration of the Department of Construction and Repairs has kept pace with its growth.

The list of new construction work in the old sections of the building is a long one. The salvaging of valuable attic space for library storage has made notable progress; two storerooms for plaster casts have been provided for the Department of Vertebrate Palæontology. The fireproofing of the habitat bird groups on the east side of the third floor north bird hall has been accom-

plished; those on the west side are to be fireproofed during 1927. The casing of the old Shell Hall in the Columbus Avenue Wing, third floor, to become the Philippine Hall, has been started. Three of the proposed twelve large built-in cases for habitat groups in the Hall of Birds of the World, second floor central, are under way. In the interests of economy, soot blowers have been installed on each boiler in the Museum's power plant, and a new smokestack was put in operation late in March. All the projects mentioned in this paragraph were made possible by special appropriations by the City of New York.

Among the miscellaneous items of construction provided by the Trustees' funds are the installation of the Pro-Astronomic Hall in the West Assembly Room, first floor; the opening of the temporary African Hall, second floor east; and the laying of a new and much-needed concrete walk from Columbus Avenue to the employees' West Tower entrance. During the summer of 1926, the Members' Room on the third floor was completely renovated and the furniture was reupholstered. Plans have been approved for the remodeling of the publication sales booth in Memorial Hall to afford more adequate counter and display space.

One will readily understand from the above program that a tremendous amount of moving of cases, exhibits, and materials of construction has to be taken care of. Mr. J. B. Foulke, Superintendent of Buildings, in addition to his charge of cleaning and policing the building, has painstakingly directed intra-building transportation. His ready coöperation in such matters has been of distinct aid in expediting construction.

We take this opportunity to thank the many City officials with whom we have dealt during the past year for their cheerful and whole-hearted coöperation. Mr. Frederick H. Smyth, our Bursar, in addition to performing the regular duties of the Bursar's office with exceptional effectiveness, has most successfully represented the Museum in all negotiation of building matters with the City authorities. Mr. Smyth has given unremitting attention to our relations with the City, and it is with sincere gratitude that we are able to say that in all the City departments he has been met with most helpful and cordial coöperation and support.

IV. FINANCIAL ADMINISTRATION

GEORGE F. BAKER, JR., Treasurer

As has been explained in previous reports, the Museum funds are carried under separate headings to form accounts applicable to the use for which the moneys have been received. It is of the utmost importance to have the appropriation from the City of New York in a distinct account, hence the *City Maintenance Account*. It is equally important to indicate the restricted and unrestricted funds which are clearly shown in the *Morris K. Jesup Fund Account* and the *Trustees' General Account* respectively. An account which has grown to a considerable sum in recent years, due to the splendid support of our Trustees and friends, and which also receives income from Special Endowment Funds, is the *Special Funds Account*. This is one of our most important funds, as all the contributions received are for special field work, preparation, publication, purchase of specimens, and education. The pleasure it gives to the donor to follow the work as it progresses has stimulated a greater number to contribute than ever before.

The *Trustees' Building Fund*, which was subscribed by the late James Douglas for construction pertaining to Education, has been expended for special building work in connection with educational exhibits.

The *Corporate Stock Account* is for the purpose of recording transactions for certain payments made by the City of New York under Corporate Stock appropriation.

The *Incidental Account* shows transactions for societies and individuals, for whom the Museum acts as agent.

The latter two accounts are not considered as income-producing accounts.

With so many accounts it is difficult to show the total of our income and the cost of the scientific and administrative operations. For this reason we are including in the preamble to the Financial Statement a summary for 1926:

Receipts

City of New York for Maintenance.....\$368,547.22

Trustees' Funds:

Balance January 1, 1926.....	109,708.86
Income from Endowment Funds.....	\$577,530.06
Contributions of Trustees.....	124,760.00
Contributions of Members and Friends..	248,787.03
Membership Fees	55,296.00
Sale of Publications and Exchanges....	16,447.74
Sales of Bonds (Trustees' Building Fund).	20,518.75
Interest on Credit Balances.....	4,741.65
Contributions of Foundations.....	20,000.00
Department of Education, City of N. Y.	3,026.22
Repayment of Loans by Incidental Acct.	1,647.38

Total Income, Trustees' Funds, 1926..... 1,072,744.83

Total\$1,551,000.91

Disbursements (Operating Costs)**Scientific and Research:**

Geology and Invertebrate Palaeontology..	\$15,123.71
Mineralogy	13,664.26
Mammalogy	26,128.02
Asiatic Exploration and Research.....	76,445.31
Ornithology	73,084.12
Vertebrate Palaeontology	75,137.55
The President's Science and Research	
Fund	22,400.25
Comparative Anatomy	29,410.08
Anthropology	59,750.79
Ichthyology	21,146.91
Herpetology	23,198.38
Lower Invertebrates	15,232.38
Entomology	15,843.24
Library	46,588.40
	<u>\$513,153.40</u>

Printing, Books and Publications

Publications	33,026.85
Division of Printing	37,908.44
	<u>\$70,935.29</u>

Preparation and Exhibition\$152,605.90

Educational, Public School Work

Public Education	\$57,183.95
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General Administration

Administration	\$255,152.75
Heating and Lighting	97,546.65
Repairs and Installation	88,153.80
General Supplies and Expenses	66,561.62
Pension Fund and Group Life Insurance.	27,635.43
Architects' Fees	27,708.42
Interest on Bank Loans	6,973.44
	<u>\$569,732.11</u>

Total\$1,363,610.65

Balances December 31, 1926..... \$187,390.26

Status of Endowment

The Permanent Endowment Fund of the Museum now amounts to a book value of \$11,449,727.25, which is invested as follows:

Railroad Bonds	\$8,525,554.25	
Industrial Bonds	825,651.25	
Public Utilities	1,537,919.25	
Other Securities	560,602.50	\$11,449,727.25
Uninvested Cash		281,321.57
Total		<u>\$11,731,048.82</u>

The annual income from Endowment funds is \$546,644.84, and shows a direct yield of .0477.

The principal items of new capital, added to the Endowment during 1926, have been received from the following sources:

Wood Fosdick, payment on account as residuary legatee....	\$510,209.00
Margaret Olivia Sage, fifth payment by executors.....	30,000.00
J. Kennedy Tod, first payment on account of bequest of \$50,000	10,000.00
Emil Wolff, payment of bequest	1,405.50
Oliver J. Wells, payment of bequest.....	500.00
Charles E. Rhinelander, balance of bequest.....	478.33
Albert J. Sauter, payment of bequest.....	100.00
Mrs. Elizabeth C. Marmon, gift.....	1,000.00
Membership Fees	11,600.00
Ralph Winfred Tower Memorial Fund, payment by Trustees and friends	15,517.00

From the available cash received, the Finance Committee purchased securities which increased the capital of our Endowment Fund \$52,808.25. By these transactions and by the receipt of stocks from the Estate of Wood Fosdick, the Endowment Fund has been increased \$575,617.19. The large balance of uninvested cash on December 31, due to sales of stocks from the Estate of Wood Fosdick, was received during the last few days of the year.

The following bequests are now in process of settlement:

Wood Fosdick Bequest. The American Museum is a residuary legatee under the will of Wood Fosdick, late of Cincinnati, Ohio. The value of the bequest to the Museum is now estimated at more than \$1,000,000.

Anna M. Harkness Bequest. Under the will of Anna M. Harkness, the Museum is a beneficiary to the extent of \$1,000,-000. Mrs. Harkness was a Member of the Museum from January 15, 1916, to March 27, 1926.

Solomon A. Fatman Bequest. As a bequest to the American Museum, \$1,000 is provided in the will of Solomon A. Fatman, a Member since November 10, 1911.

Joseph E. Roelker Bequest. In his will, Joseph E. Roelker provided that on the death of a near relative, the Museum should receive a legacy of \$1,000.

Henry Mayer Bequest. The will of Henry Mayer provides a bequest of \$500 to the Museum.

Robert Jaffray Bequest. Subject to the life interest of the widow, the Museum has a one-tenth residuary interest in the estate of Robert Jaffray. The value of the remainder is as yet unascertained. Mr. Jaffray was a Member from October 20, 1900, to the time of his death.

Mary E. Harrington Bequest. Five hundred dollars is bequeathed to the Museum under the will of Mary E. Harrington, who was a Member of the Museum from February 24, 1914, to the time of her death in 1926.

As a tribute to the life and work of Curator Ralph Winfred Tower, who died on January 26, 1926, the Trustees, at the May meeting of the Board, voted to raise an endowment fund to be known as the Ralph Winfred Tower Memorial Fund. This fund is an endowment for the Library, and the income will be devoted to the purchase of books. At the close of the year, the subscriptions to the fund amounted to \$23,242, of which \$15,517 had been paid in. The desire of the Trustees is to raise \$100,000. Grateful acknowledgment is made to the subscribers to this fund.

RALPH WINFRED TOWER MEMORIAL FUND

Andrews, Roy C.	\$50.00
Barus, Carl	2.00
Bowdoin, George T.	100.00
Brewster, Frederick F.	200.00

Bumpus, Hermon C.	\$50.00
Comer, George	100.00
Davison, Frederick Trubee	100.00
Dodge, Cleveland E.	100.00
Dodge, Cleveland H.	1,000.00
Frick, Childs	250.00
Hafner, Alfred	50.00
Hay, Clarence L.	100.00
Huntington, Archer M.	1,000.00
Iselin, Adrian	100.00
James, Walter B.	200.00
Lieb, J. W.	100.00
Miller, Roswell	100.00
Mills, Ogden	5,000.00
Morgan, J. P.	1,000.00
Morgan, Junius S., Jr.	100.00
Osborn, A. Perry	100.00
Osborn, Mrs. Henry Fairfield	25.00
Redfield, Sturgis G., Jr.	250.00
Rice, A. Hamilton	250.00
Sherman, John D., Jr.	15.00
Sherwood, George H.	100.00
Starbuck, Charles L.	50.00
Strauss, Israel	25.00
Warburg, Felix M.	5,000.00
	<u>\$15,517.00</u>

All contributions to the endowment fund, such as those mentioned above, are most gratefully received by the Trustees in any denomination. Donors of amounts-large or small may have the satisfaction of feeling that they are providing for the future operation and development of the Museum.

We wish to again extend our thanks to the Advisory Committee on Investments. Messrs. Arthur M. Anderson, Francis D. Bartow and Charles E. Mitchell have given their advice in the sales and purchases of securities, and have constantly given supervision to the Museum Endowment funds.

The response to our appeal for the Central Asiatic Expeditions was most generous on the part of our Members and friends, and brought to Dr. Roy Chapman Andrews and his associates new encouragement in his exploration work. In 1926 the contributions amounted to \$51,568.96.

**Contributions
for Special
Purposes**

We appealed to our Members for an Emergency Exhibition and Education Fund, as the regular funds of the Museum were inadequate for this special work. The Members very generously pledged \$24,825 for five years' work. The amount received in 1926 was \$9,525, of which only \$5,525 was applied to 1926, and the balance of \$4,000 was held in reserve for the remainder of the five-year period.

In order that the paper by Drs. William K. Gregory and Milo Hellman, on "The Dentition of *Dryopithecus* and the Origin of Man," might be published during the past year, Dr. J. D. Eby of the New York Society of Orthodontists and Dr. J. Lowe Young of the Eastern Association of Graduates of the Angle School of Orthodontia, raised \$1,370 among the members of their associations and other interested persons for the publication of this important work.

Lists of the contributors to these funds follow:

CENTRAL ASIATIC EXPEDITIONS FUND

Allen, E. W.....	\$5.00	Bliss, Elizabeth B.	\$5.00
American Museum of Nat-		Bond, Stephen N.	10.00
ural History	6,500.00	Bowdish, Beecher S.	5.00
Appleby, Mrs. John Storm..	25.00	Boyer, Joseph	500.00
Armstrong, Dr. S. T.....	100.00	Brill, Abraham A.	25.00
Asia Publishing Company..	3,000.00	Brownell, Francis H.	25.00
Austin, Chellis A.	25.00	Buckley, B. Lord	25.00
Baeyertz, J. T. F.....	25.00	Burden, John	10.00
Baker, George F.....	5,000.00	Cannon, Gabriel	10.00
Baker, Carrie Ethel.....	5.00	Carpenter, C. L.	50.00
Baldwin, Geo. V. N., Jr....	20.00	Casamajor, Martha	5.00
Bamberger, Louis	200.00	Central Asian Society	50.46
Banning, Leland G.....	5.00	Chandler, Norman Wilmer..	25.00
Barnard, Frederic	25.00	Chapin, Cornelia Van A....	20.00
Barr, James H.	100.00	Chase, Alice P.	50.00
Barstow, Frederic D.....	10.00	Chase, Frederick S.	10.00
Barton, Otis	10.00	Chester, Hawley T.	10.00
Battle, George Gordon	10.00	Childs, Eversley	300.00
Bernhelm, Henry J.	100.00	Chubb, Percy	100.00
Bernheimer, Mr. and Mrs.		Clauder, Rudolph	10.00
Charles L.	500.00	Coburn, Louise H.	10.00
Bigelow, Wm. S.	200.00	Cole, Harry N.	1.00
Bill, Edward Lyman	25.00	Colgate, Henry A.	200.00
Black, James D.	25.00	Colgate, Russell R.	100.00
Blackmer, James L.	100.00	Cone, Bernard M.	10.00

Congdon, Walter B.	\$50.00	James, Arthur Curtiss.....	\$1,000.00
Cook, Mrs. D. C.	25.00	Jennings, O. G.	1,000.00
Covell, Henry H.	500.00	Jones, Livingston E.	200.00
Crabb, Robert	50.00	Keith, William E., M.D....	100.00
Crabbe, Louise G.	10.00	Kellogg, J. H.	25.00
Crane, Alfred J.	25.00	Kemeys, Walter Schuyler..	50.00
Crawford, William	10.00	King, Willard V.	100.00
Davis, Waters S.	10.00	Kirkham, Dr. William B..	10.00
Delafield, Lewis L., Jr....	10.00	Kiser, John W.	5.00
Dibblee, Benj. H.	10.00	Kittredge, S. Dana	5.00
Dodge, Cleveland H. (Estate)	1,500.00	Kridel, Alexander H.	20.00
Dole, Elwyn	10.00	Lamont, Thomas W.	250.00
Dorr, John V. N.	25.00	Landon, Francis G.	50.00
DuBois, Ethel	20.00	Lane, Wolcott G.	25.00
Durlach, Theresa Mayer ...	20.00	Lerner, Michael	20.00
Edison, Thomas A.	300.00	Logan Museum, Beloit Col-	
Elsberg, H. A.	10.00	lege	1,000.00
Emmet, C. Temple	50.00	Ludlum, Clarence A.	25.00
Fay, George A.	25.00	Luke, Adam K.	100.00
Ferguson, William C.	100.00	Lyeth, John C.	5.00
Field Museum of Natural		Lyon, Frederick	25.00
History	5,000.00	Mack, Arthur J.	10.00
FitzGerald, Desmond	10.00	Mackay, Clarence H.	500.00
Fordyce, George L.	5.00	Marmon, Mrs. Elizabeth C..	100.00
Franck, Ernst T.	5.00	Marsh, George E.	3.00
Francklyn, Mrs. Cyril	15.00	Masson, John G.	5.00
Gage, Simon H.	30.00	McClintock, Gilbert S.	200.00
Garrett, Hon. John W....	100.00	McGraw, Arthur B.	25.00
Gilbert, Mrs. Frederick M..	5.00	Mitchell, Walter S.	25.00
Goodwin, Edwin S.	30.00	Moore, Miss K. T.	25.00
Grossmann, Mrs. Edward A.	3.00	Morgan, J. P.	7,500.00
Guillaume, Jules A.	10.00	Morgan, Paul B.	25.00
Haldt, Harry Peale	5.00	Morris, Ira N.	300.00
Halsey, Harold V. W.	10.00	Morris, Dr. Lewis R.	100.00
Hamilton, Claude	25.00	Mosman, Philip A.	10.00
Hamilton, George	5.00	Moulton, Miss Frances	5.00
Harriman, William Averell.	250.00	Newbold, Arthur E., Jr....	500.00
Higginson, Mrs. James J..	25.00	Newburger, Morton J.	10.00
Hodenpyl, Anton G.....	500.00	Northwestern University—	
Hoe, Mrs. Richard March..	50.00	Dept. of Geology and	
Hoffman, Francis Burrall, Jr.	25.00	Geography	10.00
Holden, Guerdon S.....	1,000.00	Pedersen, James	10.00
Holmes, Charles Leyland ..	10.00	Porter, Fred H.	5.00
Holmes, Walter W.	50.00	Pratt, Mr. and Mrs. John T.	300.00
Houghton, John D.	5.00	Price, Charles R.	5.00
Hunter, Roland Jackson...	15.00	Putnam, Helen C., M.D. ...	25.00
Huntington, Henry S.	5.00	Ramsperger, H. G.	2.00
Hussey, Brig-Gen. C. L....	10.00	Ricketts, L. D.	100.00

Riegger, Arnold F.	\$10.00	Taber, Mary	\$25.00
Ring, Clark Lombard	100.00	Thompson, A. W.	10.00
Robinson, Mrs. C. L. F.	10.00	Thompson, Mrs. J. Todhunter	30.00
Rockefeller, John D., Jr....	7,500.00	Thorne, S. B.	10.00
Rogers, Saul E.	50.00	Vaillant, George W.	25.00
Roosevelt, Mrs. Philip J....	25.00	Van Vleck, Ernest Alan...	100.00
Rosenberg, Max L.	100.00	Voigtlander, George	10.00
Ryerson, Mrs. Arthur	1,000.00	Vreeland, Frederick K.	25.00
Sage, Henry M.	50.00	Walter, Edwin J.	20.00
Satterlee, Mrs. Herbert L..	50.00	Wampler & Son, Inc.	12.50
Schmucker, Prof. S. C.....	10.00	Weigert, Hugo	10.00
Schniewind, Ewald H.	30.00	Westervelt, Rev. William D.	10.00
Scholle, Howard A.	10.00	Wherry, William B.....	10.00
Scholle, William D.	10.00	White, W. A.....	25.00
Schoonmaker, Herbert S..	10.00	Whitnall, Harold O.....	10.00
Scrymser, Mrs. James A....	100.00	Wilbur, James Benjamin..	100.00
Scudder, Hewlett	25.00	Wilder, S. H.....	10.00
Simpson, Jean Walker	25.00	Willard, Frank C.....	5.00
Skougaard, Jens	100.00	Williams, Ralph J.....	20.00
Sleeth, R. L., Jr.	50.00	Williams, William	100.00
Smith, Daniel Cranford....	10.00	Willis, W. P.....	25.00
Smith, Harriet Otis	5.00	Winne, Charles K., Jr.....	10.00
Smith, W. Hinckle	50.00	Woods, Edward A.....	50.00
Snell, Francis Arnold	15.00	Woolley, Park M.....	100.00
Straus, Mrs. Hugh Grant...	10.00	Wracic, John	2.00
Swan, James A.	100.00		
			<hr/> \$51,568.96

EMERGENCY EXHIBITION AND EDUCATION FUND

Baldwin, George J.....	\$100.00	Guggenheim, Simon	\$100.00
Barbour, John Edwards....	500.00	Guggenheim, S. R.	100.00
Battle, George Gordon.....	100.00	Harkness, Edward S.	100.00
Blackmer, James L.....	100.00	Harkness, Mrs. Edward S..	100.00
Boury, Louis J.....	100.00	Harkness, Mrs. William L...	500.00
Brady, James C.....	100.00	Harriman, E. Roland	100.00
Carnegie, Louise W.....	100.00	Lamont, Thomas W.....	100.00
Chafee, Mrs. Z.....	500.00	Mallinckrodt, Edward, Jr....	100.00
Chapin, Charles M.....	100.00	McMillan, Francis W.	100.00
Coffin, C. A. (Estate of)....	500.00	Moore, Edward C., Jr.	500.00
Davis, Gherardi	100.00	Newbold, Arthur E., Jr....	100.00
Dean, Mrs. Bashford.....	100.00	Nichols, Acosta	100.00
Delano, Moreau	100.00	Nichols, William H.....	100.00
du Pont, Coleman	500.00	Osborn, William Church....	100.00
du Pont, William	500.00	Peters, Thomas M.....	100.00
Fuguet, Howard.....	500.00	Pierrepont, Anna J.....	100.00
Gould, Edwin	100.00	Pratt, Harold I.....	100.00
Guggenheim, Murry	100.00	Riegger, Arnold F.....	25.00

Riker, John J.	\$500.00	Tiffany, Louis C.	\$100.00
Savin, William M.	100.00	Tucker, Carl.	100.00
Schieren, Charles A.	100.00	Uhl, Oswald W.	500.00
Schiff, Mortimer L.	100.00	Vanderbilt, Frederick W.	100.00
Schwarz, Emilie E.	100.00	Vanderbilt, William H.	100.00
Shearson, Edward.	100.00	Vanderbilt, William K.	100.00
Simpson, Miss Jean Walker..	100.00	Weber, Orlando F.	100.00
Stillman, C. C.	100.00	Wehrhane, Henry H.	100.00
Strauss, Frederick.	100.00	Woolley, Park M.	100.00
Sulzberger, Arthur Hays.	100.00		
Thorne, Mrs. W. V. S.	100.00		
			<hr/>
			\$9,525.00

DRYOPITHECUS PUBLICATION FUND

Bach, Ernest N.	\$30.00	Ketcham, Albert H.	\$30.00
Baker, Charles R.	30.00	Kingsbury, Addison.	30.00
Baker, Lawrence W.	30.00	Lourie, Lloyd S.	30.00
Bowman, Glen F.	30.00	McClelland, A. W.	30.00
Burrill, J. A.	30.00	McKay, Frederick S.	30.00
Butler, E. Santley	25.00	Mershon, John V.	30.00
Callaway, William T.	100.00	Minez, Julius	30.00
Clapp, George Wood.	25.00	Oliver, Oren A.	30.00
Crosby, Albert W.	30.00	Palmer, George B.	30.00
Dalley, Wilber M.	30.00	Porter, L. J.	30.00
Delabarre, Frank A.	30.00	Rogers, Alfred P.	30.00
Desnoes, Alfred M.	20.00	Sheppard, J. R.	50.00
Eby, Joseph D.	30.00	Spahn, Charles A.	30.00
Fisher, William C.	30.00	Stilson, Ira B.	30.00
Gorman, J. A.	30.00	Suggett, Allen H.	30.00
Gough, Frank A.	30.00	Swinehart, Earl W.	30.00
Grieve, George W.	30.00	Waldron, Ralph	30.00
Hatfield, Hugh K.	30.00	Waugh, Leuman M.	30.00
Hawley, C. A.	30.00	White, Oliver Wilson	30.00
Hume, Guy G.	30.00	Williams, J. Leon	20.00
Jackson, Victor Hugo.	30.00	Young, J. Lowe.	50.00
Kelsey, Harry E.	30.00		
			<hr/>
			\$1,370.00

FINANCIAL STATEMENT, 1926

PERMANENT ENDOWMENT

	Par Value	Book Value
Morris K. Jesup Fund.....	\$6,571,638.80	\$6,026,818.16
General Endowment Fund*.....	1,786,432.65	1,710,301.38
The Sage Fund.....	1,647,050.00	1,454,069.02
George F. Baker Fund.....	263,150.00	249,995.35
John D. Rockefeller, Jr., Fund.....	1,066,250.00	1,188,418.37
Collis P. Huntington Fund.....	49,900.00	49,986.05
Wood Fosdick Fund.....	206,400.00	243,246.50

Special Endowment Funds:

J. P. Morgan Fund.....	450,350.00	449,219.53
Jonathan Thorne Memorial Fund.....	30,800.00	25,754.20
Matilda W. Bruce Fund.....	11,200.00	11,552.80
Margaret Olivia Sage Fund.....	11,000.00	9,995.00
Physical Anthropology Fund.....	10,528.55	10,466.59
Anson W. Hard Library Fund.....	5,000.00	5,007.50
Ralph Winfred Tower Memorial Fund.....	14,400.00	14,896.80

Uninvested Cash

\$12,124,100.00	\$11,449,727.25
281,321.57	281,321.57
<u>\$12,405,421.57</u>	<u>\$11,731,048.82</u>

TRUSTEES' BUILDING FUND

Bonds	\$19,500.00	\$19,500.00
Cash	7,653.64	7,653.64
	<u>\$27,153.64</u>	<u>\$27,153.64</u>

*Contributors to the Permanent Endowment, 1884-1926:

Auchincloss, Hugh.....	\$10,223.56	Astor, W. W.	\$1,000.00	Lawrence, Mrs. Samuel	\$500.00
Baker, George F.....	250,000.00	Babcock, Samuel D...	5,000.00	Loeb, Solomon.....	5,000.00
Bridgham, Fanny.....	15,000.00	Baugh, Margaret L...	10,000.00	Marmon, Elizabeth C...	1,000.00
Combe, Louisa	42,172.33	Bishop, Cortlandt Field.	500.00	Matthiesson, F. O.....	1,000.00
Constable, James M.....	25,000.00	Bishop, David Wolfe...	500.00	Mitchell, Albert M. P.	4,953.97
Davis, Benjamin P.....	22,799.25	Bishop, H. R.....	1,000.00	Parsons, John E.....	1,000.00
Douglas, James.....	100,000.00	Bliss, George.....	1,000.00	Pyne, Percy R.....	2,500.00
Eno, Amos F.....	246,033.33	Bliss, Mrs. William H.	5,000.00	Rand, George C.....	100.00
Fosdick, Wood.....	510,209.00	Bondy, Emil C.....	10,000.00	Rockefeller, William...	10,000.00
Harkness, Edward S...	100,000.00	Booth, Mary A.....	124.13	Roebling, John A.....	1,000.00
Havemeyer, H. O.....	25,000.00	Bowdoin, George S...	5,000.00	Rogers, Mrs. Mary E...	1,000.00
Huntington, Mrs. C. P.	50,000.00	Bradford, Mrs. A. A...	1,000.00	Russ, Edward S.....	1,000.00
James, Arthur Curtiss.	26,750.00	Bruce, Mrs. Matilda W.	10,000.00	Sands, William R.....	10,000.00
Jesup, Morris K.....	1,225,000.00	Constable, Frederick A.	2,000.00	Sauter, Albert J.....	100.00
Jesup, Mrs. Morris K.	5,000,000.00	Cruikshank, James...	95.25	Schermerhorn, Wm. C.	5,000.00
Juilliard, A. D.....	100,000.00	Davis, Mrs. J. C. Bancroft	50.00	Seligman, Henry.....	1,000.00
Juilliard, Helen C.....	50,000.00	Dodge, William E.....	5,000.00	Southwick, Mrs. Joseph	10.00
Kitching, Frank W....	10,043.00	Dodge, W. E.....	10,000.00	Swords, Mrs. James R.	500.00
Mills, D. O.....	125,000.00	Fiske, Mrs. Martha T.	10,000.00	Tod, J. Kennedy.....	10,000.00
Morgan, J. Pierpont...	325,000.00	FitzGerald, Desmond..	625.00	Van Praag, Leonidas A.	500.00
Morgan, J. P.....	127,187.50	Forbes-Leith, A. J....	4,956.72	Villard, Henry.....	5,000.00
Ottendorfer, Oswald...	30,000.00	Gade, Frederika.....	1,900.00	Weigle, Charles H.....	50.00
Pratt, George D.....	50,000.00	Goldenberg, Joel.....	100.00	Wells, Oliver J.....	500.00
Pyne, George R. (No. 1)	15,478.33	Halsted, Miss L. P....	5,000.00	Wilson, R. T.....	1,000.00
Rhineland, Charles E.	1,025,000.00	Hitchcock, Miss S. M.	5,000.00	Wolff, Emil.....	1,405.50
Rockefeller, John D., Jr.	1,367,805.09	Huntington, C. P.....	10,000.00		\$11,408,661.75
Sage, Mrs. Russell.....	50,000.00	Iden, Henry.....	5,000.00		
Sloane, William.....	50,000.00	Inslie, Helen C.....	10,000.00	Patronship Fees.....	28,000.00
Stuart, Mrs. Mary.....	30,000.00	Iselin, Adrian.....	300.00	Fellowship Fees.....	9,000.00
Thorne, Phebe Anna...	25,070.37	Jacob, A.....	5,000.00	Life Membership Fees	81,000.00
Tilford, Charles E.....	30,098.90	James, D. Willis.....	1,000.00	Subscriptions to	
Trevor, Mrs. Emily.....	25,000.00	Jones, Emma Chambers	10.00	Ralph Winfred Tower	
Vanderbilt, Cornelius...	50,000.00	Karlsen and Karlsen.	5,000.00	Memorial Fund....	15,517.00
Vanderbilt, William H.	19,000.00	Landon, Charles.....	4,500.00		\$11,542,278.75
Warburg, Felix M.....	10,010.52	Lanier, Charles.....			
Watson, Emily A.....					

ENDOWMENT AND INVESTMENT ACCOUNT

Receipts, 1926

General Endowment Fund:

Balance	\$1,135.17	
Redemption of Bonds.....	2,150.00	
Mrs. Elizabeth C. Marmon Gift.....	1,000.00	
Bequest of J. Kennedy Tod.....	10,000.00	
Bequest of Emil Wolff.....	1,405.50	
Bequest of Oliver J. Wells.....	500.00	
Bequest of Charles E. Rhinelander.....	478.33	
Bequest of Albert J. Sauter.....	100.00	
Membership Fees.....	11,600.00	
George F. Baker Fund; Balance.....	4.65	
Collis P. Huntington Fund; Balance.....	13.95	
John D. Rockefeller, Jr., Fund; Balance.....	98.44	
The Sage Fund:		
Balance	\$91.79	
Fifth Payment by Executors.....	30,000.00	30,091.79

Wood Fosdick Fund*:

Proceeds from sale of stock.....	271,168.50
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Total General Endowment..... \$329,746.33

Special Endowment Funds:

Matilda W. Bruce Fund; Balance.....	\$75.70	
Anson W. Hard Library Fund; Balance.....	81.57	
Morris K. Jesup Fund; Balance.....	102.17	
Physical Anthropology Fund; Balance.....	41.25	
Jonathan Thorne Memorial Fund; Balance.....	77.00	
Ralph Winfred Tower Memorial Fund; Subscriptions†	15,517.00	
Total Special Endowment.....		15,894.69
Interest on Credit Balances.....		602.05
		<u>\$346,243.07</u>

Disbursements, 1926

General Endowment Fund:

Purchase of Bonds.....	\$19,381.53	
The Sage Fund:		
Purchase of Bonds.....	\$18,529.92	
Accrued Interest (to General Account)	11,511.20	30,041.12
Total General Endowment.....		49,422.65

Special Endowment Funds:

Ralph Winfred Tower Memorial Fund; Purchase of Bonds.....	14,896.80
Interest on Credit Balances (to General Account).....	602.05
Cash an hand, December 31, 1926.....	281,321.57
	<u>\$346,243.07</u>

*There were also received Stocks to the amount of \$243,246.50 on account of the bequest of Wood Fosdick.

†See listing of subscriptions on pages 150-151 of this Report.

CITY MAINTENANCE ACCOUNT*

Receipts, 1926

Capital Fund:

Cash on hand January 1, 1926.....	\$15,000.00
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Department of Parks, City of New York, 1926:

Salaries, Regular Employees.....	\$319,844.72
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Expenses for Other Than Personal Service:

1. Fuel Supplies.....	\$15,400.00
2. Office Supplies.....	6,160.00
3. Laundry, Cleaning and Disinfecting Supplies	2,002.00
4. Motor Vehicle Supplies.....	1,039.50
5. General Plant Supplies.....	3,080.00
6. Wearing Apparel.....	1,732.50
7. Office Equipment.....	577.50
8. General Plant Equipment	770.00
9. General Plant Materials	8,085.00
10. General Repairs and Replacements.	3,080.00
11. Telephone Service.....	1,386.00
12. Fixed Charges and Contributions...	5,390.00

48,702.50

Total net receipts for the maintenance of all departments.....	368,547.22
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Interest on Credit Balances	384.23
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<u>\$383,931.45</u>

Disbursements, 1926

Geology and Invertebrate Palaeontology.....	\$2,202.10
Mineralogy	2,417.75
Mammalogy	4,867.76
Ornithology	5,179.15
Vertebrate Palaeontology	3,955.00
Comparative Anatomy	800.01
Anthropology	7,257.00
Ichthyology	1,800.00
Herpetology	2,502.25
Lower Invertebrates	4,482.00
Entomology	3,100.00
Library	8,842.39
Public Education	11,750.13
Preparation and Exhibition	1,594.01
Division of Printing	5,292.01
Heating and Lighting	60,205.93
Repairs and Installation	38,307.61
General Supplies and Expenses	18,131.05
Administration	185,861.07

Total net disbursements for the maintenance of all departments.....	\$368,547.22
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Interest on Credit Balances (to General Account).....	384.23
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Capital Fund:

Cash on hand December 31, 1926.....	15,000.00
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<u>\$383,931.45</u>

*The annual appropriation of the City can be used only for the maintenance of the Museum and is inadequate for this purpose. It cannot be used for the purchase of specimens or for the expenses of exploring and collecting expeditions. The deficiency in maintenance for 1926, amounting to \$268,233.50, has been met from the Trustees' General Account.

GENERAL ACCOUNT

Receipts, 1926

Cash on hand January 1, 1926.....		\$5,000.06
Income from General Endowment Fund.....	\$86,456.68	
Income from The Sage Fund.....	78,409.71	
Income from George F. Baker Fund.....	13,157.50	
Income from John D. Rockefeller, Jr., Fund.....	61,797.50	
Income from Collis P. Huntington Fund.....	2,495.00	
Income from Wood Fosdick Fund.....	30,000.00	
Interest on Credit Balances.....	4,107.63	
Annual Members.....	41,900.00	
Sustaining Members.....	4,525.00	
Associate Members.....	8,871.00	
Sale of Publications.....	6,943.02	
Subscriptions to Natural History.....	3,155.60	
Sales and Exchanges.....	1,006.22	
Contributions of Trustees for General Purposes:		
George F. Baker, Jr.....	\$5,000.00	
George T. Bowdoin.....	1,000.00	
Frederick F. Brewster.....	2,300.00	
F. Trubee Davison.....	250.00	
Cleveland E. Dodge.....	1,000.00	
Cleveland H. Dodge.....	4,000.00	
Walter Douglas.....	1,500.00	
Childs Frick.....	500.00	
Chauncey J. Hamlin.....	500.00	
W. A. Harriman.....	500.00	
Clarence L. Hay.....	1,000.00	
Adrian Iselin.....	2,500.00	
Walter B. James.....	800.00	
Roswell Miller.....	500.00	
Ogden Mills.....	12,500.00	
J. P. Morgan.....	25,000.00	
Junius S. Morgan, Jr.....	1,000.00	
Henry Fairfield Osborn.....	2,000.00	
Daniel E. Pomeroy.....	1,000.00	
George D. Pratt.....	2,500.00	
Percy R. Pyne.....	5,000.00	
A. Hamilton Rice.....	2,000.00	
William K. Vanderbilt.....	2,500.00	
Felix M. Warburg.....	13,500.00	
		88,350.00
Contributions for General Purposes:		
Ellen J. Stone.....	\$10.00	
Mary Woodman.....	10.00	20.00
Contributions for Special Purposes:		
Carnegie Corporation of New York.....	\$15,000.00	
Cleveland H. Dodge Foundation Fund.....	5,000.00	20,000.00
Subscriptions for Emergency Exhibition and Education*...	5,525.00	
Total net receipts for the development of all departments.....		456,719.86
Accrued Income from The Sage Fund, 1921.....	\$4,486.39	
Ditto for 1922.....	6,248.75	
Ditto for 1923.....	776.06	11,511.20
Contributions of Trustees for General Purposes for 1927:		
Childs Frick.....		3,500.00
Loans:		
Incidental Account, Group Life Insurance No. 4.....		1,647.38
		\$478,378.50

*See listing on pages 154-155 of this Report.

GENERAL ACCOUNT

Disbursements, 1926

Geology and Invertebrate Palaeontology.....	\$4,115.77	
Mineralogy	1,004.38	
Mammalogy	3,826.72	
Asiatic Exploration and Research.....	1,500.00	
Ornithology	7,599.57	
Vertebrate Palaeontology	12,357.07	
Comparative Anatomy	2,544.53	
Anthropology	23,319.07	
Ichthyology	9,362.12	
Herpetology	4,776.99	
Lower Invertebrates	5,795.97	
Entomology	2,441.69	
Library	12,169.51	
Public Education	40,971.02	
Preparation and Exhibition	33,449.58	
Publications	18,480.16	
Division of Printing	23,177.80	
Heating and Lighting	37,340.72	
Repairs and Installation	38,486.06	
General Supplies and Expenses	48,430.57	
Administration	69,291.68	
Architects' Services	22,034.22	
Pension Fund	21,491.93	
Group Life Insurance	6,143.50	
Interest on Bank Loans	5,397.06	
Total net disbursements for the development of all departments		\$455,507.69
Balance December 31, 1926.....		*22,870.81
		\$478,378.50
<hr/>		
*Contributions of Trustees for General Purposes for 1927 (paid in 1926)..	\$3,500.00	
Orders and Contracts outstanding of 1926 Account	12,873.00	
Cash available for 1927.....	6,497.81	
		\$22,870.81

MORRIS K. JESUP FUND ACCOUNT***Receipts, 1926****Trustees' Restricted Funds:**

Cash on hand January 1, 1926.....		\$7,140.27
Income from Morris K. Jesup Fund.....	\$266,636.18	
Sale of Publications	2,490.28	
Sales and Exchanges	1,543.16	
Interest on Credit Balances	566.92	
		<u>271,236.54</u>

Total net receipts for the development of all departments \$278,376.81

Disbursements, 1926

Geology and Invertebrate Palaeontology.....	\$8,805.84
Mineralogy	3,665.63
Mammalogy	11,805.94
Asiatic Exploration and Research.....	16,939.77
Ornithology	17,240.61
Vertebrate Palaeontology	33,920.29
President Osborn's Science Fund	6,400.25
Comparative Anatomy	10,465.54
Anthropology	17,306.94
Ichthyology	6,407.01
Herpetology	5,919.14
Lower Invertebrates	4,954.41
Entomology	9,856.01
Library	15,201.50
Preparation and Exhibition	62,120.67
Publications	11,724.52
Division of Printing	9,438.63
Interest on Bank Loans	1,576.38

Total net disbursements for the development of all departments \$253,749.08

Cash on hand December 31, 1926†..... 24,627.73

\$278,376.81

*Disbursements of this account are made as the Board of Trustees may direct, for the purchase of specimens, for the expenses of field parties, and for the support of scientific work.

†Orders and Contracts outstanding of 1926 Account	\$14,813.00
Cash available for 1927.....	<u>9,814.73</u>
	<u>\$24,627.73</u>

SPECIAL FUNDS ACCOUNT**Receipts and Disbursements, 1926**

	Receipts	Disbursements	Balance Dec. 31, 1926
MINERALOGY			
Matilda W. Bruce Fund: Balance.....	\$1.55		
Interest.....	616.00		
	\$617.55	\$606.90	\$10.65
J. P. Morgan Fund—Mineralogy:			
Transferred from Reserve.....	5,969.60		
	\$5,969.60	\$5,969.60	
MAMMALOGY			
George S. Bowdoin Whale Model Fund:			
Balance	750.00		
	\$750.00		\$750.00
Porto Rico Research Fund:			
New York Academy of Sciences.....	1,000.00		
James H. Ottery.....	2,000.00		
	\$3,000.00	\$3,000.00	
Taylor Sudan Expedition Fund:			
Irving K. Taylor	2,627.60		
	\$2,627.60	\$2,627.60	
ASIATIC EXPLORATION AND RESEARCH			
Central Asiatic Expeditions Fund:			
Balance 1925	14,614.16		
Subscriptions 1925	3,010.00	17,624.16	
Balance 1926	2,555.00		
Subscriptions and Sales 1926.....	40,136.46	40,381.38	2,310.08
Balance 1927	325.00		
Subscriptions 1927	8,801.96		9,126.96
Balance 1928	325.00		
*Subscriptions 1928	720.00		1,045.00
*Subscriptions 1929	210.00		210.00
	\$70,697.58	\$58,005.54	\$12,692.04
ORNITHOLOGY			
Amazon Field Fund: Balance.....	1,144.23		
	\$1,144.23	\$639.03	\$505.20
J. Sanford Barnes Fund: Balance.....	869.48		
	\$869.48	\$869.48	
Flying Bird Group Fund:			
Balance	700.00		
Mrs. Dwight Arven Jones	1,800.00		
	\$2,500.00	\$2,500.00	
Hudson Bay Bird Fund:			
William A. Rockefeller.....	1,000.00		
	\$1,000.00	\$870.47	\$129.53
Carried Forward	\$89,176.04	\$75,088.62	\$14,087.42

*See listing on pages 152-154 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1926
Brought Forward	\$89,176.04	\$75,088.62	\$14,087.42
Ruwenzori-Kivu Expedition Fund:			
Balance	\$833.05		
Henry W. Sage	18,000.00		
Frank S. Mathews	1,580.47		
	\$20,413.52	\$19,733.76	\$679.76
Margaret Olivia Sage Fund: Balance.....	855.76		
Interest.....	427.88		
	\$1,283.64	\$601.43	\$682.21
Special Bird Fund:			
Frank Melville, Jr.	150.00		
Samuel Heilner	200.00		
	\$350.00	\$350.00	
Tropical Bird Group Fund:			
Evan M. Evans	2,000.00		
	\$2,000.00	\$238.15	\$1,761.85
Whitney South Sea Expedition Fund:			
Balance	4,363.04		
H. P. Whitney	20,000.00		
	\$24,363.04	\$17,262.47	\$7,100.57

VERTEBRATE PALÆONTOLOGY

Edward D. Cope Biography Fund:			
Balance	606.25		
Julia Cope Collins	100.00		
	\$706.25	\$106.98	\$599.27
Florida Palæontology Research Fund:			
Balance	40.75		
Walter W. Holmes	100.00		
	\$140.75	\$140.75	
J. P. Morgan Fund—Vertebrate Palæontology:			
Transferred from Reserve	23,000.00		
	\$23,000.00	\$23,000.00	
American Pliocene Fund—Vertebrate Palæontology:			
Balance	6,500.00		
Anonymous	11,705.00		
	\$18,205.00	\$11,680.54	\$6,524.46
Siwalik Preparation Fund:			
Balance	7,134.73		
	\$7,134.73	\$3,324.45	\$3,810.28
Western Field Fund:			
Balance	2,019.76		
Childs Frick	2,750.00		
	\$4,769.76	\$1,852.47	\$2,917.29
Java Expedition Fund:			
Cleveland E. Dodge	200.00		
Childs Frick	200.00		
Ogden Mills	200.00		
Percy R. Pyne	200.00		
	\$800.00	\$800.00	
Carried Forward	\$192,342.73	\$154,179.62	\$38,163.11

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1926
Brought Forward	\$192,342.73	\$154,179.62	\$38,163.11
COMPARATIVE ANATOMY			
American Museum Greenland Expedition Fund:			
Harrison Williams	\$10,000.00		
George Palmer Putnam	2,000.00		
David Binney Putnam	1,000.00		
Dorothy Binney Putnam	2,000.00		
	\$15,000.00	\$15,000.00	
Lee Axworthy Model Fund:			
Florence E. Dickerman	600.00		
	\$600.00	\$600.00	
Comparative Anatomy Fund:			
Balance	500.00		
	\$500.00		\$500.00
ANTHROPOLOGY			
Cañon del Muerto Fund:			
Balance	924.16		
Ogden Mills	2,500.00		
	\$3,424.16	\$3,336.32	\$87.84
East Asiatic Fund: Balance.....	593.49		
	\$593.49	\$593.49	
Hack Philippine Collection Fund:			
Dunlevy Milbank	2,500.00		
Jeremiah Milbank	2,500.00		
	\$5,000.00	\$5,000.00	
Migrations Research Fund:			
National Research Council	1,405.00		
	\$1,405.00	\$1,405.00	
Panama Archæological Fund:			
Clarence L. Hay	1,000.00		
	\$1,000.00	\$1,000.00	
Physical Anthropology Fund: Interest.....	521.14		
	\$521.14	\$521.14	
Mrs. William Boyce Thompson Archæological Expedition to the Lower Gila Fund:			
Balance	28.39		
	\$28.39	\$11.83	\$16.56
ICHTHYOLOGY			
Cleveland H. Dodge Ichthyology Fund:			
Balance	353.17		
	\$353.17		\$353.17
Fish Bibliography Fund:			
Balance	3,481.14		
Bashford Dean	1,200.00		
	\$4,681.14	\$3,577.78	\$1,103.36
Carried Forward	\$225,449.22	\$185,225.18	\$40,224.04

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1926
Brought Forward	\$225,449.22	\$185,225.18	\$40,224.04
HERPETOLOGY			
William Douglas Burden East Indian Fund:			
Mr. and Mrs. James A. Burden	10,000.00		
	\$10,000.00	\$10,000.00	
ENTOMOLOGY			
Entomological Fund:			
Balance	788.55		
William Bingham, 2d	200.00		
Frank Johnson	500.00		
Howard Notman	100.00		
Herbert F. Schwarz	200.00		
General Account	100.00		
	\$1,888.55	\$445.54	\$1,443.01
LIBRARY			
Anson W. Hard Library Fund:			
Interest	250.00		
	\$250.00	\$250.00	
Library Fund:			
Ogden Mills	10,000.00		
	\$10,000.00	\$10,000.00	
Ralph Winfred Tower Memorial Fund:			
Sturgis G. Redfield	50.00		
Albert H. Crosby	100.00		
	\$150.00	\$125.00	\$25.00
PUBLICATIONS			
Brewster-Sanford Publication Fund:			
Frederick F. Brewster	1,500.00		
	\$1,500.00	\$1,072.38	\$427.62
Dryopithecus Publication Fund:			
*Subscriptions	1,370.00		
	\$1,370.00	\$1,249.79	\$120.21
Ecuador Publication Fund: Balance	500.00		
	\$500.00	\$500.00	
PUBLIC EDUCATION			
Astronomic Fund:			
Charles J. Liebman	\$3,200.00		
	\$3,200.00	\$134.62	\$3,065.38
Nature Study Fund:			
John H. Hall	100.00		
	\$100.00	\$69.96	\$30.04
School Fund:			
Department of Education of the City of New York:			
1925 Account	195.92		
1926 Account	2,830.30		
	\$3,026.22	\$3,026.22	
Jonathan Thorne Memorial Fund:			
Interest	1,232.00		
	\$1,232.00	\$1,232.00	
Carried Forward	\$258,665.99	\$213,330.69	\$45,335.30

*See listing on page 155 of this Report.

SPECIAL FUNDS ACCOUNT (Continued)

	Receipts	Disbursements	Balance Dec. 31, 1926
Brought Forward	\$258,665.99	\$213,330.69	\$45,335.30
PREPARATION AND EXHIBITION			
African Hall Group Fund: Balance.....	28,749.78		
George Eastman	100,000.00		
	\$128,749.78	\$47,397.00	\$81,352.78
Emergency Preparation Fund: Balance....	7,909.64		
Goodwin, William B.	25.00		
Kinney, Warren	75.00		
Van Wyck, Philip V. R.	25.00		
Zoller, Charles	10.00		
	\$8,044.64	\$8,044.64	
Total net receipts for the development of specific departments.....	\$395,460.41		
Total net disbursements for the development of specific departments.....		\$268,772.33	
Balances, December 31, 1926.....			\$126,688.08
J. P. Morgan Fund Reserve: Balance.....	6,840.10		
Interest.....	22,629.50		
	\$29,469.60	\$28,969.60	\$500.00
Emergency Exhibition and Education Fund Reserve:			
*Subscriptions—			
1927 Account	1,000.00		
1928 Account	1,000.00		
1929 Account	1,000.00		
1930 Account	1,000.00		
	\$4,000.00		\$4,000.00
Angelo Heilprin Exploring Fund Reserve:			
Balance	550.00		
Mr. and Mrs. Paul J. Sachs	500.00		
	\$1,050.00		\$1,050.00
Interest on Credit Balances	3,066.97	3,066.97	
Totals	\$433,046.98	\$300,808.90	\$132,238.08

*See listing on pages 154-155 of this Report.

THE AMERICAN MUSEUM OF NATURAL HISTORY

CORPORATE STOCK ACCOUNT

1926

Receipts:

Department of Parks, City of New York:

C. D. P. 3 G.....	\$28,730.15
C. D. P. 3 S.....	8,006.34
C. D. P. 3 T.....	14,038.77
N. D. P. 3 R.....	18,289.50

\$69,064.76

Interest on Credit Balances..... 9.45

\$69,074.21

Disbursements:

Payroll of Mechanics, etc.....	\$69,064.76
Interest on Credit Balances (to General Account).....	9.45

\$69,074.21

TRUSTEES' BUILDING FUND ACCOUNT

1926

Receipts:

Cash on hand January 1, 1926.....	\$2,712.35
Investment Fund:	
Sale of Securities.....	20,518.75
Income from Investment Fund.....	1,389.77
Interest on Credit Balances.....	67.10
	<u>\$24,687.97</u>

Disbursements:

Architects' Services	\$5,674.20
Engineers' Services, School Service Building.....	645.85
Engineers' Services, Southeast Wing	133.88
Painting Exhibition Halls.....	5,067.40
Perspective Drawings.....	200.00
Pro-Astronomic Hall	3,300.00
School Service Building Changes.....	513.00
Southeast Wing and Court Building Changes.....	1,500.00
Cash on hand December 31, 1926.....	7,653.64
	<u>\$24,687.97</u>

INCIDENTAL ACCOUNT

1926

Receipts:

Cash on hand January 1, 1926.....		\$255.26
Received from Individuals and Societies.....		14,525.84
Group Life Insurance:		
Employees' Premium Payments.....	\$6,012.34	
Loans	3,328.78	9,341.12
Interest on Credit Balances.....		44.93
		<u>\$24,167.15</u>

Disbursements:

Disbursements for Individuals and Societies.....		\$14,647.55
Group Life Insurance:		
Premiums	\$6,204.78	
Loan Instalments.....	3,136.34	9,341.12
Interest on Credit Balances (to General Account).....		44.93
Cash on hand December 31, 1926.....		133.55
		<u>\$24,167.15</u>

All the foregoing accounts have been

Examined and	WILLIAM AVERELL HARRIMAN	} Auditing Committee
Approved	FREDERICK TRUBEE DAVISON	
	JUNIUS SPENCER MORGAN, JR.	

E. & O. E.

NEW YORK, December 31, 1926.

GEORGE F. BAKER, JR., Treasurer

V. MEMBERSHIP

PERCY R. PYNE, Secretary

We wish to make recognition of the assistance our members are rendering, widely distributed as they are, in disseminating the scientific information obtained by the Museum's staff through exploration and research. Our membership affords us contacts with all parts of the world and is therefore of distinct aid in broadening the scope of the Museum.

During 1926 our members contributed in regular membership fees \$55,296. to the general purposes of the Museum; \$11,600., representing Life Membership fees and receipts from the higher classes, has been applied to the permanent endowment. Thus, the total income from membership for the year was \$66,896.

The amendment to the Constitution increasing the Life Membership fee to \$200. went into effect January 1, 1926. This raises the Life Membership fee in the American Museum to the standard of similar institutions. We are pleased to note that 32 Life Members were enrolled during the year under this new regulation.

Early in 1926 a special appeal was made to a selected list of 800 members for annual contributions to our general funds of \$100. for a period of five years. The response was very gratifying. Fifty-six members pledged a total of \$24,825., of which \$5,525. was applicable to 1926.

Toward the end of November every member of the Museum was invited to make a special contribution to the funds providing for the continuation of Central Asiatic exploration under Dr. Roy Chapman Andrews. Again with generous response our members came forward to the number of 161, pledging a total of \$15,797.46 to be contributed during the next three years.

A copy of each issue of NATURAL HISTORY, the Museum's popular bi-monthly illustrated magazine, is mailed to every member. This magazine is our journal of progress in exploration, research, exhibition and education. Under departmental editorship during 1926 each number specialized in one branch of natural history. Authors of articles in the journal are not limited to the members of the American Museum staff. Through

contributions by scientists in all parts of the world the Museum is enabled to publish a magazine of broad interest and scope.

During the summer of 1926 the Members' Room on the third floor was completely renovated and the furniture reupholstered. This room, exclusively for the use of members, is now fitted with all club lounge comforts. Here a member and guests visiting the Museum may meet friends, read, rest or write letters, and the attendant in the room will, upon request, arrange for guides to conduct members to exhibits of particular interest.

Eight regular spring and autumn members' course lectures and five special lectures for members were given in the Museum auditorium during the year. Eight lectures for the children of members were also arranged. Members of the Museum are cordially welcome at other lectures in the building given under the auspices of the Board of Education or various scientific and civic organizations.

The number of new members obtained in 1926, 1229, is the largest in the history of the Museum. Although there was a loss through death and resignation of 492, the net gain for the year, 737, was likewise the largest in the records of the institution. The total membership on December 31, 1926, was 9256.

In classes our membership is grouped as follows:

Founders	0	Fellows	74
Endowment Members	4	Honorary Life Members	55
Benefactors	14	Life Members	1,132
Associate Founders	12	Corresponding Members	22
Associate Benefactors	25	Sustaining Members	185
Patrons	153	Annual Members	4,415
Honorary Fellows	18	Associate Members (non-resident)	3,147

NEW MEMBERS

During 1926 the following new members were elected:

BENEFACTOR

WILLIAM SLOANE*

ASSOCIATE FOUNDERS

FREDERICK F. BREWSTER

DANIEL B. WENTZ*

*Deceased

ASSOCIATE BENEFACTORS

DOUGLAS BURDEN	JOHN A. ROEBLING
DR. WALTER B. JAMES	HENRY W. SAGE
HARRISON WILLIAMS	

PATRONS

J. SANFORD BARNES	ROSWELL MILLER
MRS. CHARLES L. BERNHEIMER	ARTHUR E. NEWBOLD, JR.
MRS. ISAAC H. DIXON	JAMES H. OTTLEY
CLEVELAND E. DODGE	MRS. JAMES H. OTTLEY
MRS. GERALDINE R. DODGE	JOHN H. PHIPPS
DR. EVAN M. EVANS	JOHN S. PHIPPS
GEORGE BARTON FRENCH	JAMES F. PORTER
THOMAS S. GATES	PHILIP H. PRATT
HELEN C. INSLEE*	MRS. PHILIP H. PRATT
MRS. DWIGHT A. JONES	G. P. PUTNAM
GEORGE F. KUNZ	WILLIAM A. ROCKEFELLER
HARVEY S. LADEW	MRS. ARTHUR RYERSON
CLARENCE H. MACKAY	HENRY W. SAGE
DUNLEVY MILBANK	WILLIAM I. WALTER
JEREMIAH MILBANK	MRS. WILLIAM I. WALTER

HONORARY FELLOWS

HOWARD RUSSELL BUTLER	BARON DE CARTIER DE
GEORGE F. KUNZ	MARCHIENNE

FELLOWS

JOHN EDWARDS BARBOUR	FRANK JOHNSON
MRS. Z. CHAFEE	T. W. LAMONT
GEN. COLEMAN DU PONT	MALCOLM S. MACKAY
WILLIAM DU PONT	IRA NELSON MORRIS
CHAUNCEY J. HAMLIN	THOMAS MERRILL RING
WALTER W. HOLMES	CLIFFORD WARREN SMITH
MRS. SAMUEL RICHARDS WEED	

HONORARY LIFE MEMBERS

KUNWAR DILLIPAT SHAH	DR. FORDYCE B. ST. JOHN
RAI BAHADUR	DR. R. W. SHUFELDT
CAPT. J. B. L. NOEL, JR.	JOHN L. WEGENER

*Deceased

LIFE MEMBERS

GEORGE G. BARBER	MRS. WILLIAM H. MOORE
OTIS BARTON	MRS. H. S. MORGAN
WILLIAM BINGHAM, 2D.	HOWARD NOTMAN
THORNHILL BROOME	CHARLES F. NOYES
PERCY BULLARD	LEWIS T. PRESTON
W. H. CARPENTER	JOHN J. RASKOB
RUSSELL S. CODMAN	JACKSON E. REYNOLDS
HARRIET BUCK COOK	F. BAYARD RIVES
CHARLES A. DEWEY, M. D.	J. STILLMAN ROCKEFELLER
MRS. W. B. DICKERMAN	THEODORE ROOSEVELT
EVA H. EASTMAN	MISS MILDRED SAWYER
LUCIUS R. EASTMAN	FRANK P. SHEPARD
HARRIET H. ECKSTEIN	MISS MARION SMITH
THOS. A. EDISON	ANDREW VARICK STOUT
MRS. ARTHUR B. EMMONS	FREDK. M. P. TAYLOR
RICHARD EUGENE FULLER	J. C. THAW
HENRY S. HARPER	MICHAEL M. VAN BEUREN
JOHN S. HOLBROOK	HERBERT G. WELLINGTON
MRS. ERASMUS LINDLEY	MRS. FARNHAM YARDLEY

SUSTAINING MEMBERS

GUSTAV N. BALLIN	MRS. FRANCIS F. PRENTISS
MAURICE E. BANDLER	MRS. STANLEY RESOR
JAMES F. CAVANAGH	H. T. SANDS
MRS. H. P. DAVISON	GERTRUDE SANFORD
MRS. JOHN B. FORD	MRS. ETHEL BERGSTRESSER
AL. HELLER	STEWART
ROBERT G. HOOKE	HENRY S. STURGIS
PHILIP LeBOUTILLIER	MRS. JOHN S. THACHER
CLAYTON MARK	WEBSTER B. TODD
MRS. AMASA STONE MATHER	GEORGE H. TOWNSEND
MRS. THOMAS N. MCCARTER	MRS. GEORGE H. TOWNSEND
A. WARE MERRIAM	C. B. WARREN
JOS. NEMEROV	MRS. CLARENCE C. WILLIAMS

ALBERT WORTMANN

DECEASED MEMBERS

BENEFACTOR

CLEVELAND H. DODGE

ASSOCIATE FOUNDERS

CLEVELAND H. DODGE

CHARLES LANIER

D. B. WENTZ

ASSOCIATE BENEFACTORS

CLEVELAND H. DODGE

CHARLES LANIER

PATRONS

W. B. DICKERMAN

MRS. ANNIE TRUMBULL

CLEVELAND H. DODGE

SLOSSON

CHARLES M. JESUP

MRS. FRANK K. STURGIS

CHARLES LANIER

MRS. ROBERT WINTHROP

FELLOWS

DESMOND FITZGERALD

LLOYD PHOENIX

CHARLES M. JESUP

JAS. SHEWAN

ABRAM G. NESBITT

MRS. FRANK K. STURGIS

MRS. ROBERT WINTHROP

HONORARY LIFE MEMBERS

CARL E. AKELEY

NORMAN GRANT

LIFE MEMBERS

MISS MARIA R. AUDUBON	FRANCIS R. HITCHCOCK
THOMAS BARING	MRS. JAMES R. JESUP
DR. WM. S. BIGELOW	MRS. JOHN INNES KANE
WILSON CATHERWOOD	ABRAM G. NESBITT
GEORGE W. CHAUNCEY	CLEMENT BUCKLEY NEWBOLD
HEYWARD CUTTING	FRANK G. ORMSBY
EDGAR DEAL	MRS. J. A. SCRYMSER
W. B. DICKERMAN	THOMAS F. SOMERS
CLEVELAND H. DODGE	CHARLES CHAUNCEY STILLMAN
ALBERT R. FISH	WILLIAM L. SWAN
DESMOND FITZGERALD	FREDERICK T. VAN BEUREN
C. LINCOLN FREE	W. SEWARD WEBB
C. M. GARRISON	D. B. WENTZ
MRS. STEPHEN V. HARKNESS	GEORGE WOOD
MRS. FREDERIC DELANO HITCH	WILLIAM M. WOOD

SUSTAINING MEMBERS

MRS. THOMAS UPHAM COE	MRS. EMILY N. HUYCK
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A complete list of Members is appended.

Respectfully submitted,

PERCY R. PYNE,
Secretary.

LIST OF MEMBERS

December 31, 1926

FOUNDERS

This class of members is composed of the incorporators of the Museum

WILLIAM T. BLODGETT*	MORRIS K. JESUP*
JOSEPH H. CHOATE*	J. PIERPONT MORGAN*
ROBERT COLGATE*	HENRY PARISH*
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 Bodine, Samuel T.
 Boehrer, Charles A.
 Boettger, Pauline
 Boettger, Theodore
 Bogert, Henry L., Jr.
 Bogue, Morton G.
 Bolton, Reginald Pelham
 Bolton, Mrs. Wm. H.
 Bond, Miss Annie W.

- Bond, Mrs. Wm. E.
 Bondy, Richard C.
 Bondy, Wm.
 Boni, Mrs. Nell
 Bonime, Ellis, M.D.
 Bonner, Paul Hyde
 Bonnett, Charles P.
 Bonties, H. P.
 Bookman, Dr. Samuel
 Borden, Gail
 Borden, Howard S.
 Borden, L. M.
 Borg, Sidney C.
 Borgia, D.
 Bossom, Alfred C.
 Boston, Charles A.
 Bouvier, M. C.
 Bowdoin, George T.
 Bower, J. A.
 Bowers, Henry S.
 Bowers, Spotswood D.
 Bowers, Thomas W.
 Bowles, Herbert R.
 Bowling, Otho S.
 Bowmall, L. W.
 Bowman, John Hall
 Bowman, John McE.
 Bowman, W. P.
 Boyd, Jackson H.
 Boyd, Robert E.
 Boyer, Joseph
 Boyle, Mary Nammack
 Braden, Welcome W.
 Bradley, Mary T.
 Bragg, Caleb S.
 Braman, Chester A.
 Braman, Chester A., Jr.
 Brand, Alexander F.
 Brandreth, Franklin
 Branower, William
 Brayton, Mrs. Hezekiah A.
 Brearley School, The
 Brecher, Leo
 Breckinridge, Mrs. John C.
 Brehaut, Ernest
 Brennan, Dr. Robert
 Emery
 Brent, Henry Kelly
 Brewer, George E.
 Brewer, Mrs. George E., Jr.
 Brewer, Horatio J.
 Briggs, James Ellis
 Briggs, Russell E.
 Brigham, Storrs
 Brightman,
 Mrs. Horace Irving
 Brill, Dr. A. A.
 Brill, Henry S.
 Brinton, Willard C.
 Bristol, John I. D.
 Bristow, William B.
 Brite, Mrs. James
 Britton, Dr. N. L.
 Broadbent, Miss H.
 Broadwin, I. L.
 Brodman, Dr. Henry
 Brogan, William H.
 Brokaw, Clifford V.
 Brookfield, Frank
 Brookfield, Henry Morgan
 Brooklyn Preparatory
 School
 Brooks, Miss B. G.
 Brooks, Frederick
 Brooks, Dr. Harlow
 Brooks, Mrs. Harlow
 Brooks, W. B.
 Brosseau, A. J.
 Brower, Mrs. Ernest C.
 Brower, Wm. L.
 Brown, Mrs. Addison
 Brown, Mrs. Archer
 Brown, Chas. F.
 Brown, Charles Hilton
 Brown, Charles S., Jr.
 Brown, Edward M.
 Brown, Edwin H.
 Brown, Elmer Ellsworth
 Brown, F. Rhinelander
 Brown, Franklin Q.
 Brown, Mrs. Franklin Q.
 Brown, Mrs. Harold
 Brown, Mrs. Helen Parrish
 Brown, J. Alexander
 Brown, J. Wright
 Brown, Lathrop
 Brown, James M.
 Brown, Dr. Lawrason
 Brown, Mrs. Mary O.M.P.
 Brown, Thatcher M.
 Brown, Mrs. Thatcher M.
 Brown, Vernon C.
 Brown, Warren D.
 Brown, Wm. Adams
 Browne, Dr. Charles
 Brownell, F. H.
 Brownell, George F.
 Browning, Mrs. J. Hull
 Browning, Mrs. John
 Scott
 Browning, Wm. H.
 Bruce, Miss Sarah E.
 Bruns, Edwin G., Jr.
 Brunswick, Mrs. E.
 Bryant, Dr. Alice G.
 Bryant, Chas. E.
 Bryant, Mrs. Martha L.
 Bryce, Miss Mary Tileston
 Bryce, William
 Buch, Miss Emily
 Buchman, Albert
 Buckley, B. Lord
 Buckner, M. N.
 Buckner, Thos. A.
 Buckner, Walker
 Buckstaff, Ralph N.
 Buechner, C. Fred
 Bugbee, Dr. Henry G.
 Bulkley, Edwin M.
 Bulkley, Mrs. Edwin M.
 Bulkley, J. O.
 Bulkley, Jonathan
 Bulkley, Joseph E.
 Bulkley, L. Duncan, M.D.
 Bulkley, Robert J.
 Bullowa, Dr. Jesse G. M.
 Bunker, William
 Burden, James A.
 Burden, John
 Burden, Mrs. W. A. M.
 Burgess, Herbert L.

- Burgess, Thornton W.
 Burghard, Mrs. Edward M.
 Burgl, Oscar
 Burhorn, Edwin
 Burkhard, Thomas
 Burleigh, Mrs. George W.
 Burleigh, Geo. Wm.
 Burlingham, Mrs. Chas. C.
 Burlingham, Hiram
 Burnett, E. R.
 Burnham, Gordon W.
 Burnham, John B.
 Burr, Algernon T.
 Burr, George H.
 Burr, Wm. H.
 Burr, Winthrop
 Burroughs, Chas. W.
 Burt, Mrs. Edward R.
 Burton, Mrs. J. H.
 Bush, D. Fairfax
 Bush, Donald F., Jr.
 Bushnell, Charles E.
 Bushnell, Douglas S.
 Bussing, Miss Mary
 Butler, Charles S.
 Butler, Dr. E. Santley
 Butler, Ethan Flagg, M.D.
 Butler, J. G., Jr.
 Butler, Maxwell Evarts
 Butler, Miss Virginia
 Butt, Mrs. McCoskry
 Button, Mrs. W. H.
 Byrd, William
 Byrne, James
 Byrne, Mrs. James
- Caldwell, Mrs. Mildred
 Bedard
 Caldwell, Prof. Otis W.
 Calhoun School, The
 Calkins, Miss E. W.
 Calkins, William H.
 Callaway, Merrel P.
 Calman, Henry L.
 Calvocoressi, L. J.
 Cameron, Amelia E.
 Cammann, H. H.
 Cammann, Henry L.
 Campbell, Mrs. Chas. W.
 Campbell, Dr. Eleanor A.
 Campbell, Miss Flora M.
 Campbell, J. W. C.
 Campbell, Mrs.
 Robert James
 Cane, Melville H.
 Canfield, Frederick A.
 Canfield, George F.
 Cannon, H. W.
 Cannon, Mrs. S. T.
 Canter, Max M.
 Capen, Mrs. Frances I.
 Caplin, Harry
 Carden, George A.
 Cardozo, Michael H., Jr.
 Cardozo, Sidney B.
 Carhart, Miss M. Renée
 Carlebach, Mrs. Emil
 Carlebach, Walter M.
 Carlisle, G. Lister, Jr.
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 Carlton, A. E.
 Carlton, Newcomb
 Carnegie, Thomas M., Jr.
 Carns, Arthur L.
 Carpender, Wm.
 Carpenter, Mrs. C. C.
 Carr, Herbert J.
 Carr, James A.
 Carrick, Robert E.
 Carse, John B.
 Carter, Ernest T.
 Carter, Mrs. Ernest T.
 Carty, John J.
- Cary, Mrs. Robert J.
 Casamajor, Dr. Louis
 Casamajor, Miss Martha
 Case, Mrs. Charles L.
 Case, J. Herbert
 Case, Theodore W.
 Caspary, A. H.
 Cass, Charles Anderson
 Castle, Chas. C.
 Cattell, J. McKeen
 Cauty, Frank H.
 Ceballos, Mrs. Juan M.
 Chace, Arthur F.
 Chadbourne, William M.
 Chadbourne, Mrs.
 Humphrey W.
 Chalmers, Arthur A.
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 Chambers, Geo. J.
 Chambers, Hilary R.
 Chandler, Mrs. George W.
 Chandler, Norman Wilmer
 Chandler, Percy M.
 Chandor, Miss Valentine L.
 Chapin, C. H. B.
 Chapin, Miss
 Cornelia Van A.
 Chapin, Elizabeth G.
 Chapin, Miss Maria Bowen
 Chapman, Clarence E.
 Chapman, Mrs. Clarence E.
 Chapman, John Jay
 Chapman, Mrs. John Jay
 Chappel, H. G.
 Charles, Mrs. James M.
 Charles, Lillian M.
 Charles, William B.
 Chase, Miss Jessie
 Chatillon, George E.
 Chauncey, A. Wallace
 Chaves, José E.
 Cheever, H. Durant
 Cheney, Geo. L.
 Cheney, Mrs. K. D.
 Cheney, Louis R.
 Cheney, O. H.
 Chester, C. L.
- Cable, Geo. W.
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 Cadwalader, Charles M. B.
 Caesar, H. A.
 Caesar, Harry I.
 Cahen, James P.
 Cahill, Edmund H.
 Cahn, Mrs. Leopold
 Cahn, Mrs. S.
 Caldwell, Edward T.
 Caldwell, Mrs. Jean H.

- Chester, Hawley T.
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Children's University
 School
Childs, Frederick R.
Childs, S. W.
Childs, Mrs. Starling W.
Childs, Wm.
Chisholm, Hugh J.
Chisholm, Mrs. Hugh J.
Chisholm, B. Ogden
Chisholm, Mrs. B. Ogden
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Choate, Mrs. Caroline S.
Choate, Mabel
Christie, R. E.
Chubb, Mrs. F. Y.
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Church, F. Edwin
Church, Louis P.
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Claffin, John
Clancy, John Evarts
Clapp, Frederick G.
Clapp, George H.
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Clark, Anna M.
Clark, Bert
Clark, Mrs. Charles M.
Clark, Charles Martin
Clark, Clarence M.
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Clark, George C., Jr.
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Clark, Mrs. Grenville
Clark, Harold Benjamin
Clark, Harold T.
Clark, Henry A.
Clark, Howard R.
Clark, J. William
Clark, John M.
Clark, Mrs. John Peyton
Clark, Maud S.
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Clarke, Thomas B.
- Clarkson, Miss Annie
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Clausen, Marjorie
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Clerici, John
Cleveland, Clement, M.D.
Cleveland, Mather
Cleveland, Newcomb
Close, Walter H.
Clowes, Francis J.
Clowes, Frederick V.
Cluett, Walter H.
Coakley,
 Cornelius G., M.D.
Cobb, A. Polhemus
Cochran, G. D.
Coddington,
 Mrs. Clarence Morgan
Coe, Henry E., Jr.
Coffin, Miss Alice S.
Coffin, C. A.
Coffin, Edmund
Coffin, Francis A.
Coffin, William S.
Coggeshall, Edwin W.
Cogswell, Mrs. Ledyard, Jr.
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Cohen, DeWitt Clinton
Cohen, Emanuel
Cohen, Julius Henry
Cohen, Miss Marjorie
Cohen, Dr. Martin
Cohen, Max
Cohen, Morse K.
Cohen, Wm. N.
Cohen, William W.
Cohn, Alfred E.
Cohn, Martin L.
Coit, Marjorie Cordley
Coker, James Lide
Colburn, Albert E.
Cole, Frederic A.
Cole, Rufus
Cole, Mrs. Rufus
- Cole, Sylvan
Colebrook, Charles B.
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Coleman, L. W. T.
Coleman, Dr. Warren
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Colgate, Gilbert
Colgate, James C.
Colgate, Mrs. Richard M.
Collier, Mrs. R. J.
Collins, Chas. Farnham,
 M.D.
Collins, Harry
Collins, P. D.
Colp, Dr. Ralph
Colt, Harris D.
Colt, Richard C.
Colton, Mrs. Chester L.
Columbia Grammar
 School
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Conboy, Martin
Condit, Dudley N.
Cone, Bernard M.
Cone, Mrs. Ceasar
Cone, Frederick H.
Conheim, Hermann
Conklin, R. C.
Connkin, Mrs. W. R.
Connable, Mrs. John Lee
Connell, Herbert Stanley
Connfelt, Charles M.
Constable, Mrs. Howard
Constantian, Dr. R.
Content, Walter
Conway, W. Palen
Conza, G. H.
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Cook, Mrs. Chas. T.
Cook, H. J.
Cooke, Richard A.
Cooke, Walter E.
Cooley, Mrs. Elmer E.
Coombs, James Bliss
Coonan, J. E.
Cooper, Mrs. Charles W.
Cooper, F. G.

- Cooper, Henry E.
 Cooper, Mrs. M. Le Brun
 Cooper, Morris
 Copeland, Royal S., M.D.
 Coppel, Arthur
 Corbin, Austin
 Corcoran, George Eustis
 Corlies, Howard
 Cormack, G. A.
 Corn, Belmont
 Cornell, Edward
 Cornell, Miss Emily L.
 Corning, Mrs. Parker
 Corscaden, Dr. James A.
 Cory, Robert H.
 Coster, Mrs. C. H.
 Coshland, Mrs. Lee B.
 Cote, Arthur J.
 Cotting, C. E.
 Coutant, Mrs. Russel S.
 Coward, Marian W.
 Cowdin, J. Cheever
 Cowl, Clarkson
 Cowl, Mrs. Clarkson
 Cowles, Dr. Edward S.
 Cowles, John H.
 Cowles, Mrs. Percival W.
 Cowperthwait, J. H.
 Coxe, Mrs. Alfred C., Jr.
 Crabb, Robert
 Crabbe, Miss Louise G.
 Crafts, Miss Elisabeth S.
 Craig, Burdette P., M.D.
 Crain, Miss Christobelle
 Crane, Charles R.
 Crane, Mrs. W. Murray
 Crane, Mrs.
 Winthrop M., Jr.
 Cravath, Mrs. Paul D.
 Crawford, Douglas J.
 Crawford, H. L.
 Crawford, Mary M., M.D.
 Crawford, Wm.
 Crile, George W., M.D.
 Crimmins, Miss Mary C.
 Crimmins, Mrs. Thomas
 Crocker, Mrs. Frank
 Crocker, Miss Helen
 Crocker, W. T.
 Crocker, William H.
 Crockett, Mrs. Stuart
 Crohn, Burrill B.
 Crompton, Davis H.
 Cromwell, Lincoln
 Crosby, Maunsell S.
 Crosgrave, Lloyd M.
 Cross, George D.
 Cross, Miss Emily
 Cross, Miss M. R.
 Cross, Mrs. R. J.
 Cross, W. R.
 Crossley, G. R.
 Crow, Chas. S.
 Crozer, John P.
 Crozier, Maj-Gen. William
 Crump, Dr. Armistead C.
 Cullinan, Craig F.
 Cullman, Jos. F.
 Cullum, J. Barlow
 Cunningham,
 Francis de L.
 Cunningham, W. de L.
 Curie, Chas.
 Curiel, H.
 Currie, Mark Douglas
 Curtis, Brian C.
 Curtis, F. Kingsbury
 Curtis, G. Warrington
 Curtis, Mrs. Merriam
 Curtis, Ronald Elliot
 Curtis, W. J.
 Curtiss, Franklin
 Curtiss, Roy
 Cushing, Howard G., Jr.
 Cushing, Grafton D.
 Cushman, Burritt A.
 Cushman, James Stewart
 Cushman, Merton L.
 Cutcheo, F. W. M.
 Cutler, Earle
 Cutler, J. Warren
 Cutting, Mrs. Fulton
 Cypra, Anton
 Dally, George M.
 Dainoff, Bella
 Dakin, Mrs. Henry D.
 Dale, Chester
 Dall, C. W.
 Dallett, Frederic A.
 Dalziel, Mrs. F.
 Damrosch, Frank
 Dana, Paul
 Danforth, Mrs. Francis J.
 Daniel, Annie S., M.D.
 Daniel, Mrs. Robert W.
 Daniels, Lorenzo
 Danzieger, Virginia
 Darlington,
 Clinton Pelham
 Darlington, Mrs. Harry
 Dashew, Jacob
 Dater, John Grant
 Davenport, Chas. B.
 Davenport, Mrs. Ira
 Davenport, Wm. B.
 Davenport, Wm. R.
 Davey, Edward J.
 Davey, Wm. Nelson
 Davidge, Wm. H.
 Davidson, De Witt A.
 Davie, Preston
 Davie, Mrs. Preston
 Davies, J. Clarence
 Davis, George S.
 Davis, Hobart Williston
 Davis, John W.
 Davis, Leonard M.
 Davis, Morgan
 Davis, Mrs. Robert C.
 Davis, Samuel D.
 Davis, Warren J.
 Davis, Waters S.
 Davison, Miss Alice M.
 Davison, Miss E. H.
 Davison, E. Mora
 Davison, George W.
 Dawkins, Harry C.
 Day, Clarence M.
 Day, Joseph P.
 Day, Miss Sarah J.

- Day, W. A.
 Dazian, Henry
 Dean, Miss F.
 Dean, Sarah M.
 Dearborn, D. B., Jr.
 de Bary, A.
 Debevoise, Thomas M.
 de Bonneval, Mrs. A.
 De Buys, A.
 Deeks, R. E.
 de Forest, Johnston
 de Forest, Lockwood
 de Forest, Robert W.
 de Forest, Mrs. Robert W.
 Degener, John F., Jr.
 Degener, Paul A.
 de Gersdorff, Mrs. Carl A.
 De Golyer, E.
 Deitsch, Alan B.
 deKosenko, Stepan
 Delacorte, Geo. T., Jr.
 Delafield, Miss Emily
 Delafield, Mrs. John R.
 Delafield, Lewis L., Jr.
 Delamar, Alice A.
 Delano, Lyman
 De Lanoy, William C.
 Delavan, D. Bryson, M.D.
 Delehanty, Wm. R.
 de Long, Mrs. George B.
 Deming, Mrs. Horace E.
 Deming, L. C.
 Dempsey, Geo. C.
 Demuth, Leopold
 Denby, Edwin H.
 Denison, Mrs.
 Charles Halbert
 Denison, Lucile G.
 Denny, Miss Amey D.
 Denny, Mrs. Lucy W.
 Denton, Dr. Myron P.
 Denver, Miss Mary H.
 de Perigny, Comtesse
 Deppé, W. P.
 Dercum, Francis X., M.D.
 Derfelden, Margharita
 Derringer, David F., Jr.
 de Ruyter, John E.
 Desmond, Thomas C.
 De Sola, Mrs. J. C.
 De Sola, Solomon, D.D.S.
 Detjen, Wm. Edward
 Detmer, Julian F.
 Deutsch, Lee
 Deutsch, Maurice
 Devotion, Miss Harriet N.
 Dewey, Frederick A.
 Dewey, Dr. Martin
 De Witt, Benjamin P.
 DeWolf, W. Ashley
 Dexter, Mrs. Stanley W.
 Dick, Adolph M.
 Dick, Madeleine T.
 Dick, William K.
 Dickerman, Mrs. Wm. C.
 Dickey, Mrs. Charles D.
 Dickey, Charles D., Jr.
 Dickins, A. C.
 Diedel, Henry R.
 Diefenthaler, Charles E.
 Dieffenbach,
 William H., M.D.
 Dieterich, Chas. F.
 Dike, Mrs. Norman S.
 Dill, Miss Mary A.
 Diller, Angela
 Dillingham, F. A.
 Dillon, Charles J., M.D.
 Dillon, Herbert Lowell
 Dilworth, Jos. R.
 Dimock, E. J.
 Ditson, Charles H.
 Dittler, Mrs. Herbert
 Dittrich, Hermann
 Dix, Mrs. Alfred P.
 Dix, John A.
 Dixon, Katherine
 Dize, Miss Eleanore E.
 do Amaral, Dr. Afranio
 Dobbryn, William A.
 Dodd, Frederick G.
 Dodd, Miss Gertrude
 Dodge, Mrs. Arthur M.
 Dodge, Bayard
 Dodge, John S.
 Doelger, Charles P.
 Doelger, Frank G.
 Dohme, John L.
 Dolbey, Miss Sarah E.
 Dole, Miss Margaret
 Dominick, Bayard
 Dominick, Gayer G.
 Dominick, Mrs.
 George F., Jr.
 Dominick, H. B.
 Dommerich, L. W.
 Dommerich, O. L.
 Donaldson, Fred'k E.
 Donoho, Mrs. Ruger
 Donohugh, Mrs.
 Agnes C. L.
 Dorman, Mrs. Richard A.
 Dorr,
 Goldthwaite Higginson
 Dorr, John V. N.
 Dorrance, Rev. Samuel M.
 Doubleday, F. N.
 Doubleday, Nelson
 Doughty, Edgar M.
 Douglas, Miss Elizabeth
 Douglas, Mrs. Walter
 Douglas, Rev. Winfred
 Douglas, Wm. Harris
 Douglass, Mrs. Chas.
 Douglass, Mrs. G. A.
 Dow, Mrs. Frederic G.
 Dowd, Wyllys E., Jr.
 Dowling, F. N.
 Downer, William J.
 Downes, William A., M.D.
 Downey, John I.
 Dows, David
 Dows, Mrs. David
 Doying, Arthur Simeon
 Drake, Miss Mary E.
 Draper, Charles D.
 Draper, George
 Draper, Mrs. William K.
 Draper, Mrs. Wm. P.
 Drayton, J. Coleman
 Dressel, Miss M.

- Dressler, Mrs. Oscar
 Dribben, S. F.
 Dring, Chas. P.
 Drummond, Isaac Wyman
 DuBois, Arthur
 DuBois, Mrs. Arthur M.
 Du Bois, Miss Cora A.
 DuBois, Eugene
 DuBois, Mrs. Matthew B.
 DuBosque, F. L.
 Dudley, Mrs. Frank A.
 Duffy, Rev. Francis P., D.D.
 Dumbell, Henry T.
 Duncan, Frederick S.
 Duncan, Stuart
 Duncan, Wm. A.
 Dunham, Mrs. Carroll
 Dunham, Mrs. Edward K.
 Dunlop, E. A.
 Dunn, Henry E.
 Dunne, Mrs. Finley Peter
 Dunning, Henry S., M.D.
 Dunning, Dr. William B.
 du Nouy,
 Mrs. Pierre Lecomte
 Dupee, Charles
 du Pont, Henry F.
 Durkee, Richard P. H.
 Durlach, Theresa Mayer
 Dustin, Charles W.
 Dutcher, John Gerow
 Dutcher, Malcolm B.
 DuVal, Mrs. Clive L.
 Du Val, Guy
 Duvall, William C.
 Dwight, Col. A. S.
 Dwight, Jonathan, M.D.
 Dwight, P. D.
 Dwight, Mrs. Winthrop
 Dwight, Winthrop E.

 Eager, Ernest W.
 Earl, Walter G.
 Earle, Ellis P.
 Early, Joseph N.
 Eastland, Dr. O.
 Easton, Charles D.

 Eaton, A. W.
 Eaton, Cyrus S.
 Eaton, Mrs. Frederick H.
 Eaton, Henry W.
 Eberstadt, Ferdinand
 Ebert, C. R.
 Eckart, Edmund
 Ecker, F. H.
 Eckstein, Alfred
 Eddy, Geo. Simpson
 Eddy, Wm. H.
 Edelstein, Francis J.
 Eden, John H., Jr.
 Edgar, Herman L. R.
 Edge, Mrs. C. N.
 Edgell, George Harold
 Edie, Richard, Jr.
 Edson, Franklin
 Edson, Marmont
 Ehret, Mrs. Louis J.
 Ehrich, Mrs.
 Adelaide Price
 Ehrich, Mrs. Jules. S.
 Ehrmann, Mrs. E.
 Eilers, Karl
 Eimer, August
 Eimer, Walter R.
 Einstein, I. D.
 Eising, Dr. Eugene H.
 Eisman, Max
 Eisner, William J.
 Eldridge, Lewis A.
 Elkan, Benno
 Elkus, Abram I.
 Elkus, Mrs. Abram I.
 Elliman, Lawrence Bogert
 Elliott, Howard
 Elliott, William, Jr.
 Ellis, Ralph
 Ellsworth, John S.
 Ellwood, Walter B.
 Elmer, C. W.
 Elms, Franklin M.
 Elsberg, H. A.
 Ely, Carl B.
 Emanuel, John Henderson

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 Personal Service
 Embree, Edwin R.
 Embury, Miss Emma C.
 Emerick, F. A.
 Emerson, John Haven
 Emerson, Miss Julia T.
 Emerson, Mrs. Wm.
 Emmet, C. Temple
 Emmet, Miss Lydia F.
 Emmet, Robert Temple
 Endicott, William
 Crowninshield
 Enelow, H. G.
 Engel, Nicholas
 Engelhard, George H.
 English, Geo. W.
 English, Mrs. J. Radford
 Erb, William M.
 Erbsloh, R.
 Erdmann, Albert J.
 Erdmann, John F., M.D.
 Erdmann, Martin
 Erdmann, William
 Erdwurm, Frank, M.D.
 Erisman, Mrs. Frank H.
 Erlanger, Abraham
 Erlanger, Milton S.
 Erlanger, Sidney C.
 Ernst, Irving L.
 Erstein, Benedict
 Eschenbach, Edward R. A.
 Estricher, Henry
 Ethical Culture School
 Ettlinger, Louis
 Eustis, Mrs. W. C.
 Evangelical Lutheran
 Church of St. Matthew,
 Parish School
 Evangelista, Sister M.
 Evans, Samuel G.
 Evans, Dr. Samuel M.
 Everitt, John W.
 Everitt, S. A.
 Ewing, George R. M.
 Exton, H. E.
 Eyer, Mrs. George A.

- Fabbri, Mrs. Sheperd
 Fabbri, Ernesto G.
 Fahnestock, Harris
 Fahnestock, William
 Fahs, Louis A.
 Failla, G.
 Fairbanks, Wallace
 Fairchild, Mrs. Chas. S.
 Fairchild, S. W.
 Falahee, John J.
 Falk, K. George
 Falls, Mrs. DeWitt Clinton
 Farish, John B.
 Farley, Robert E.
 Farnam, Thomas W.
 Farnsworth, William
 Farquhar, Marion Jones
 Farr, Mrs. F. Shelton
 Farrand, Mrs. Max
 Farrel, Mrs. Franklin
 Fatman, Morris
 Faxon, Mrs. Francis E.
 Faxon, Wm. Bailey
 Fay, Charles J.
 Feingold, M. W.
 Feldman, Dr. George
 Feldman, Herman
 Fellman, E.
 Fels, Mrs. Jos.
 Felsenthal, Ben
 Ferguson, Alfred L.
 Ferguson, C. V.
 Ferguson, Miss Eleanor
 Ferguson, Harry L.
 Ferguson, William C.
 Férier, Albert Jean
 Ferns, Robert M.
 Ferry, Mrs. Charles H.
 Ferry, Mansfield
 Petzer, Frank
 Feustman, L. P.
 Fichtel, Frederic
 Field, Mrs. A. B.
 Field, Henry
 Field, Wm. B. Osgood
 Field, Mrs. Wm. B. Osgood
 Filley, F. H.
- Filley, Oliver D.
 Fink, E. C.
 Finn, Mrs. James A.
 Finn, Mrs. James Wall
 Fischer, Hermann, M.D.
 Fischer, T. Tasso
 Fish, Erland F.
 Fish, Mrs. Hamilton
 Fisher, Howell
 Fisher, Samuel H.
 Fisher, Walter G.
 Fitzhugh, John L.
 Fitzpatrick, Frank J. E.
 Flagg, Mrs.
 Thyrsa Benson
 Flanagan, Mrs. Chas. A.
 Flanagan, John R.
 Flanigan, Horace
 Fleischmann, Udo M.
 Fleitmann, Fred. T.
 Fleitmann, H. C.
 Fleitmann, William
 Medlicott
 Fleming, Matthew C.
 Fleming, Stephen B.
 Fletcher, Harry G.
 Fletcher, Henry
 Flocker, Mrs. Simon
 Flint, Clyde A.
 Florsheim, James
 Flower, Mrs. Anson R.
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 Fogg, Julius H. B.
 Foot, Sandford D.
 Forbin, V.
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 Ford, Franklin
 Forman, Mrs. G. Lisle
 Forsch, Mrs. F.
 Forster, Mrs. Mary V.
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 Fosburgh, James B. A.
 Fosdick, Raymond B.
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 Foster, Mrs. Edward W.
 Foster, Frank B.
 Foster, Howard Crosby
- Foster, J. Hegeman
 Foster, Macomb G.
 Foster, Pell W.
 Fountain, Gerard
 Fowler, Emily A.
 Fowler, Northrup
 Fowler, Dr. Robert H.
 Fowler, Russell S., M.D.
 Fowler, Mrs.
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 Fowler, William Eric
 Fox, Mrs. A. J.
 Fox, Miss Alice Bleecker
 Fox, Cornelius F.
 Fox, Frederick P.
 Fox, Mrs. Irving J.
 Fox, Mortimer J.
 Fox, William
 Franck, Ernst T.
 Francklyn, Mrs. Cyril
 Frank, Edgar E.
 Frank, Mrs. Harold
 Frank, Isaiah, M.D.
 Frank, Jerome W.
 Frank, Joseph S.
 Frank, Mrs. Lawrence
 Franke, Albert
 Franke, Mrs. Albert
 Franke, Julius
 Frankel, D. J.
 Frankel, Herbert
 Frankel, Jacob L.
 Franken, Sigmund W. A.
 D.D.S
 Frankenberg, Henry E.
 Frankenberg, Werner V.
 Frankenstein, Edwin
 Frankfeld, B.
 Franklin, George S.
 Franklin, Lindley Murray
 Franklin, Walter S.
 Frantz, Angus
 Macdonald, M.D.
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 Fraser, Alex. V.
 Fraser, Mrs. C. D.
 Fraser, Miss Jane G.

- Fraser, Miss J. K.
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 Henry W., M.D.
 Frederick, Karl T.
 Fredrick, Mrs. Leopold
 Freedman, Mrs. Jacques R.
 Freedman, Leo
 Freeman, Mrs. Blanche W.
 Freeman, Halstead G.
 Freeman, Herbert C.
 Freiman, Dr. M. E.
 Frelinghuysen, G. G.
 Frelinghuysen, P. H. B.
 French, Amos Tuck
 French, Mrs. Daniel C.
 French, Fred F.
 French, W. H.
 Frese, Fred
 Frew, Walter E.
 Frew, Mrs. William N.
 Fr y, Arthur G.
 Fried, Dr. Gustav A.
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 Friedlander, Victor
 Friends School
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 Fries, Harold H.
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 Mrs. Horace Westlake
 Frissell, A. S.
 Frissell, Miss Leila S.
 Frost, Frank J.
 Frothingham,
 Major John W.
 Frothingham,
 Mrs. Randolph
 Frothingham, Robert
 Frothingham, William I.
 Frueh, Mrs. Alfred J.
 Fry, Mrs. Gladys Gordon
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 Fuld, Henry
 Fulle, Chas. A.
 Fulle, John H.
 Full , Richard Milton
 Fuller, Mrs. Eugene
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 Fulton, Robert Edison
 Furman, Robert T.
 Gaillard, Mrs. Wm. D.
 Galban, Eugenio
 Gale, Mrs. Thomas K.
 Gallatin, Albert
 Gallatin, Mrs. Albert
 Gallatin, Goelet
 Gallowhur, W. G.
 Gamble, James N.
 Gammell, Arthur A.
 Gammell, R. H. Ives
 Gans, Howard S.
 Gans, Nathan
 Gantz, Aaron
 Gardin, John E.
 Gardner, W. A.
 Garelick, Wm.
 Garrard, Miss Margaret H.
 Garrett, Miss Laura B.
 Garrett, Mrs. Thos., Jr.
 Garrison, Mrs. E. E.
 Garnjost, F. W.
 Gartland, George E.
 Garvan, Mrs. F. P.
 Garver, John A.
 Gaston, Wm. G.
 Gatti-Casazza, Giulio
 Gawtry, Lewis B.
 Gay, William O.
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 Geer, Walter
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 Gerdau, Mrs. Otto
 Gerrish, Frank Scott
 Gerry, Robert L.
 Gerry, Mrs. R. L.
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 Gerster, John C. A.
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 Gibb, Mrs. Walter
 Gibb, Dr. W. Travis
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 Gibson, W. Frazer
 Gibson, Mrs. Harvey Dow
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 Gifford, Walter S.
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 Gilbert, Mrs. Riley Miles
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 Gill, Kermod F.
 Gillespie, Samuel H.
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 Gilsey, Margaret
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 Gladding, Nelson Augustus
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 Gluck, Mrs. Edward
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 Goddard, Ralph
 Godfrey, Mrs. E. D.
 Godley, George McMurtrie
 Goetchius, Mrs. J. M.
 Goetz, Mrs.
 Joseph Addison
 Goldan, S. Ormond, M.D.
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 Goldman, Albert
 Goldman, Alfred L.
 Goldman, Julius
 Goldmann, Nathan
 Goldmark, Mrs. Emil
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Goldsmith, Frederick
 Goldsmith, Mrs. H. B.
 Goldsmith, James A.
 Goldsmith, Mrs. Maurice
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 Goldwater, Henry
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 Goodfriend, Meyer
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 Gordon, Walter R.
 Gordon, Mrs. Wm. S.
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 Gottheil, Mrs. Paul
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 Gould, Harry
 Gould, Lyttleton B. P.
 Gove, Marguerite
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 Graham, Dr. John C.
 Grandin, George Wilbert
 Grant, Adolph
 Grant, De Forest
 Grant, E. R.
 Grant, R. M.
 Grasselli, C. A.
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 Gratz, Frank W.
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 Gray, Albert Z.
 Gray, Arthur R.
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 Gray, Prentiss N.
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 Borland
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 Spencer
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 Grigg, Harry K.
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 Grinnell, E. Morgan
 Grinnell, Dr. Robt. S.
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 Morgan
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 Gruenstein, B. M.
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 Guggenheim, William
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 Guinzburg, Mrs. Victor
 Gulterman, Percy L.

Gulick, Archibald A.
 Gunari, Andrew P.
 Gushee, R. A.
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 Strong
 Guthrie, Rev. William
 Norman
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 Hager, Robert, Jr.
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 Halsey, Harold V. W.
 Halsey, Herbert D.
 Halsey, Robert H.
 Halsey, R. T. H.
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 Camille Martin
 Harris, Chas. C.
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 Randolph
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 Havemeyer, H. O.
 Havemeyer, John F.
 Havemeyer, T. A.
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 Hayden, Warren S.
 Hayes, Alfred
 Hayes, Carroll
 Hayes, Dr.
 Wm. Van Valzah
 Hayes, Mrs.
 Wm. Van Valzah
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 Haynes, W. deF.
 Hays, David S.
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 Hazard, Frederick
 Rowland
 Hazard, Mrs. R. G.
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 Hazen, George H.
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- Heide, Julius A.
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 Heineman, Bernard
 Heinsheimer, Alfred M.
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 Hellman, Henry
 Hellman, Milo, D.D.S.
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 Josephine Pomero
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 Hendricks, Henry S.
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 Herty, Chas. H.
 Hervey, Mary B.

- Herz, Fred. W.
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 Herzog, Max
 Herzog, Samuel A.
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 Hess, Victor R.
 Hetzler, Theo.
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 Hewlett, Walter Jones
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 Heymann, Seymour E.
 Hymann, Everett B.
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 Hidden, Walter
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 Hilder, Moritz
 Hill, Robert Carmer
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 Hilyard, George D.
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 Hine, Lyman N.
 Hine, Thomas A.
 Hines, Walter D.
 Hinman, Royal F.
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 Hirsch, Angelo
 Hirsch, Chas. S.
 Hirsch, Leo H.
 Hirsch, Mrs. Walter A.
 Hirschberg, M. H.
 Hirschhorn, Fred
 Hirschland, F. H.
 Hirschman, Mrs. Jesse
 Hirshon, Mrs. Charles
 Hitchcock, Claude N.
 Hoch, Herman
 Hochschild, Berthold
 Hochschild, Harold K.
 Hodenpyl, Annie P.
 Hodenpyl, Mrs. Eugene
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 Hodges, Geo. W.
 Hoe, Geo. E.
 Hoe, Mrs. Robert
 Hoffman, Albert L., Jr.
 Hoffman, Charles L.
 Hoffman, Charles W.
 Hoffman, F. Burrall, Jr.
 Hoffman, Harry L.
 Hoffman, W. W.
 Hoffmann, Richard H., M.D.
 Hogan, Mrs. Jefferson
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 Holden, Dean Hawley
 Holden, Mrs. Edwin B.
 Holden, Laurence C.
 Holden, Mrs. L. Dean
 Hollenbeck, Miss Amelia B.
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 Holt, George C.
 Holt, R. S.
 Holter, Mrs. E. O.
 Holz, Julius
 Holzmaister, L. V.
 Holzman, A.
 Holzman, Elkan
 Homan, B. H.
 Hooker, Mrs. Elon H.
 Hooker, Mrs. Ransom S.
 Hoopes, Maurice
 Hoops, Herman L.
 Hope, Norman S.
 Hope, Walter E.
 Hopkins, A. A.
 Hopkins, Miss Augusta D.
 Hopkins, Mrs. Henry
 Hopkins, J. L.
 Hopkinson, Ernest
 Hoppin, G. Beekman
 Hoppin, Mrs. W. W., Jr.
 Horace Mann Elementary
 School
 Horch, Louis L.
 Hord, John H.
 Horn, Robert
 Horne, Hon. W. E., M.P.
 Horowitz, Dr. Phillip
 Horr, L. Wm.
 Hoskier, H. C.
 Hoskins-Miner,
 Miss Charlotte
 Hotaling, Mrs. George
 Preston
 Houghton, Seymour
 Phillips
 House, Edward M.
 House, Miss Florence E.
 Housman, Clarence J.
 Hovet, Henry A.
 Hovey, Theo. C.
 Howard, John K.
 Howells, Mrs. John
 Howes, Mrs. Reuben
 Howland, Silas W.
 Howson, Mrs. Roger S.
 Hoyer, F.
 Hoyt, C. Sherman
 Hoyt, Elizabeth S.
 Hoyt, Geo. H.
 Hoyt, Geo. S.
 Hoyt, Gerald L.
 Hoyt, Mrs. John Sherman
 Hoyt, Miss Virginia Scott
 Hubbard, Mrs. Charles W.
 Hubbard, Mrs. G. M.
 Hubbard, Louis B.
 Huber, Mrs. J. M.
 Huddleston, Carroll H.
 Hudson, Marjorie V. L.
 Huffman, Dr. Otto V.
 Hughes, Charles E., Jr.
 Hughes, John C.
 Huidekoper, Edgar
 Hulsmit, Frank T.
 Humphreys, Frederic E.
 Humphreys, Mrs. Geo. H.

Humphrey, Martha K.	Ingersoll, Mrs. Ernest	Jameson, Mrs. Edwin C.
Hunt, Henry T.	Ingersoll, Jonathan	Jamison, Dr. A. B.
Hunt, Seth B.	Ingersoll,	Jansen, Ed.
Hunt, Mrs. Thomas	Mrs. Marion Crary	Janvrin, Edmund R. P.,
Hunter, Arthur M.	Ingraham, Mrs. George	M.D.
Hunter, George Leland	Ingraham, Geo. L.	Jarcho, Dr. Julius
Hunter, Jeremiah	Ingraham, Mrs. Phoenix	Jarecky, Dr. Herman
Hunter, Stephen C.	Ingram, Ernest S.	Jaretzki, Mrs. Alfred
Huntington,	Inman, John H.	Jarves, James N.
Mrs. Francis C.	Innes, O. G.	Jarvis, N. S., M.D.
Huntington, Henry Strong	Inslee, Edwin W.	Jefferson, John Percival
Huntington, Mrs. R. P.	Irons, Robert Hatfield	Jenkins, A. C.
Huntington, Robert P.	Irwin, William Fletcher	Jenkins, Alfred W.
Hüpfel, Adolph G.	Irving, Mrs. L. du Pont	Jenks, Mrs. Robert I.
Hüpfel, Chris. G.	Isaacs, Stanley M.	Jennings, Miss A. B.
Hüpfel, J. Chr. G.	Iselin, C. Oliver	Jennings, Percy H.
Hurd, Dr. Lee M.	Iselin, Mrs. C. Oliver	Jennings, Mrs. Percy Hall
Hurd, R. M.	Iselin, Miss Georgine	Jennings, Mrs. Philip B.
Hurlbut, Miss Margaret C.	Iselin, Lewis	Jennings, Robt. E.
Huron, George B.	Iselin, Wm. E.	Jennings, Walter
Hurst, Mrs. Albert Edward	Iselin, Mrs. William E.	Jephson, George S.
Hutcheson, Ernest	Iselin, Wm. O'D.	Jermain, Miss M. C.
Hutcheson, Wm. A.	Isham, Phillips	Jervey, Huger W.
Hutchins, A. S.	Isham, William B.	Jewett, George L.
Hutchins, R. G.	Isham, Mrs. Wm. B.	(In Memoriam)
Hutzler, George H.	Ising, Charles Eugene	Jobling, James W., M.D.
Huyler, C. D.	Israel, Milton J.	John, Robert
Huyler, David		Johnson, Mrs. Bradish
Huyler, Frank DeK.	Jaches, Leopold	Johnson, Prof. Douglas W.
Hyatt, A. M.	Jackson, Mrs. C. D.	Johnson, Evangeline B.
Hyde, A. Fillmore	Jackson, Francis DeMilt	Johnson, F. Elmer, M.D.
Hyde, Mrs. Augustus L.	Jackson, Mrs. Frederic W.	Johnson, George B.
Hyde, Mrs. Clarence M.	Jackson, Frederick W.	Johnson, Gilbert H.
Hyde, Courtney	Jackson, Percy	Johnson, Leeds
Hyde, E. Francis	Jackson, Robert A.	Johnson, Lloyd W.
Hyde, Miss Hazel	Jackson, Samuel	Johnson, Reginald M.
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Hyman, Edwin C.	Jacoby, George W.	Johnson, Mrs. Wm.
Hymes, Richard	Jacoby, Dr. Geo. W.	Templeton
Hynard, William C.	Jaekel, Albert F.	Johnston, J. Herbert
	Jais, Jacob D.	Johnston, Mrs. J. Herbert
Ihlseng, Dr. Magnus C.	James, Mrs. Ellerton	Johnston, Dr. Marius E.
Ill, Edgar A.	James, Henry	Jonas, Ralph
Imboden, Harry M.	James, Oliver B.	Jones, A. H.
Ingalls, Fay	James, Mrs. Walter B.	Jones, Mrs. Adam Leroy
Ingalls, Roscoe C.	James, Mrs. Wortham	Jones, Arthur J.

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 Jones, Edwin Artimus
 Jones, Emily L.
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 Jones, Frank Morton
 Jones, H. Bolton
 Jones, J. Frederick
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 Jones, Samuel B.
 Jones, T. Catesby
 Jones, William B.
 Jones, W. Strother
 Joseph, Mrs. John A., Jr.
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 Judson, William D.
 Julian, R. L.
 Jungbluth, Karl
- Kachurin, Philip
 Kahle, Mrs. Julie
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 Kahn,, Dr. Morton C.
 Kahn, Otto H.
 Kahn, Walter N.
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 Kahrs, W. H., M.D.
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 Kallman, Max S.
 Calvin, Nathan
 Kane, Mrs. De Lancey
 Kane, Miss Sybil Kent
 Kanowitz, S. B.
 Kann, N.
 Kappes, Herman
 Karagheusian, Arshag
 Karlsen, Frank E., Jr.
 Karsch, Bernard
 Kaskel, Max
 Kassing, Edwin S.
 Kastor, Adolph
 Kates, Jerome S.
 Kathan, Reid A.
- Kaufmann, Charles B.
 Kaufmann, Donald
 Kaufmann, Ernst B.
 Kaufmann, H. M.
 Kaufmann, Irma H.
 Kaufmann, Julius
 Kaufmann, Max
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 Kean, John
 Kean, Robert Winthrop
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 Keep, C. H.
 Keigwin, Rev. Dr. A. Edwin
 Keith-Elliott, Alice E.
 Keith, Minor C.
 Keith, Mrs. Minor C.
 Kelchner, William W.
 Keller, Charles G.
 Keller, Fredk. C.
 Keller, Joseph F.
 Keller, Morris
 Kelley, Augustus W.
 Kelley, Cornelius F.
 Kelley, Nicholas
 Kellogg, Charles W.
 Kellogg, Mrs. Frederic R.
 Kellogg, L. D.
 Kellogg, Mrs. Morris W.
 Kellogg, Mr. R. S.
 Kelly, Charles P.
 Kelly, J. S.
 Kemp, Robert
 Kempf, E. J.
 Kempner, Elias
 Kempner, Sigmund
 Marshall
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 Kent, G. H.
 Kent, Peter Lorillard
 Kent, Warner W.
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 Keppel, David
 Kern, William M.
 Kerr, E. Coe
 Kerr, John B.
 Kerr, John Clapperton
 Kerrison, Dr. Philip D.
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 King, Jerome A.
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 Miss Margaret S.
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 Kinney, Warren
 Kip, William F.
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 Kirkpatrick, John
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 Kissel, W. Thorn

- Kitchel, Allan F.
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 Kittredge, S. Dana
 Klee, Sigmund
 Klein, Adolph
 Klein, D. Emil
 Klein, Leo M.
 Kleinberger, François
 Klenke, William H.
 Klingenstein, Charles
 Kloh, Alphonse
 Klugman, Julius
 Knapp, Joseph P.
 Knapp, William Jared
 Kneer, Dr. Ferdinand G.
 Knight, Mrs. J. P., Jr.
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 Knowlton, Eben B.
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 Koehn, Walter H.
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 Kohn, Chas. M.
 Kohn, Emil W.
 Kohn, Mrs. Walter T.
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 Kohnstamm, Lothair S.
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 Krakeur, Jacques
 Krause, Holger E.
 Krauser, John F.
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 Kridel, Alexander H.
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 Kuhn, August
 Kuhn, Edward
 Kuhn, Julius
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 Kurzman, Charles C.
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 Kuser, John Dryden
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 Ladd, William Sargent, M.D.
- La Dow, Stanley V.
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 Lagai, Dr. G.
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 Lamb, Gilbert D.
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 la Rosa, Carlos, Jr.
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 Laucks, S. Forry
 Lauder, Mrs. Geo., Jr.
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 Reynal, Mrs. E. S.
 Reynolds, Miss Emma C.
 Reynolds, Geo. W.
 Reynolds, Shaw H.
 Reynolds, Thos. A.
 Reynolds, Mrs. Walter S.
 Rheinauer, Daniel
 Rhoades, Mrs. Lyman
 Rhoades, Miss Nina
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 Rice, Dr. Frederick W.
 Rice, Louis W.
 Rice, Oran Winthrop
 Rice, Philip B.
 Rich, Charles A.
 Rich, Jos. S.
 Rich, M. P.
 Richard, Miss Elvine
 Richard, Harold C.

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| Richards, George | Rogers, Albert R. | Rossano, Augusto T., M.D. |
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| Richardson, Thomas de | Rogers, H. Pendleton | Rothman, Arnold |
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| Riesenber, Adolph | Rollins, Max | Rowley, H. S. |
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| Rinchede, Charles A. W. | Roosevelt, Miss J. S. | Rubsam, C. William |
| Ripley, Henry B. H. | Roosevelt, Mrs. J. West | Ruhl, Louis |
| Rippenbein, Morris | Roosevelt, Philip J. | Ruhlender, Henry |
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| Roberts, Owen F. | Rose, Anton R. | Runshelm, Joseph |
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| Mrs. Thomas Markoe | Rose, C. C. | Edward Wheelock |
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| Robinson, Mrs. C. L. F. | Rosenbaum, Sol. G. | Ruperti, Justus |
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| Rockefeller, Mrs. Wm. G. | Rosenthal, S. M. | Rust, H. N. |

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 Seligman, Eustace

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 Sperry, Wm. M.
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 Spitzer, Edward E.
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 • M.D., LL.D.
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 Statham, Noel
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 Steffanson, Mrs. Hakan B.
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 Steinam, Mrs. E. S.
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 Steinhardt, Irving D., M.D.
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 Steinkamp, William H.
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 Steinway, Wm. R.
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 Stern, Emil
 Stern, Isaac
 Stern, Leopold
 Stern, Meyer
 Stern, Simon T.
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 Sternfeld, Joseph
 Sternfeld, Sigmund
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 Stettenheim, I. M.
 Stettinius, Mrs. Edw. R.
 Stevenot, Chas. J.
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 Stillman, Miss B. G.
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 Stillman, J. A.
 Stillman, Leland S.
 Stirn, Mrs. Edmund A.
 Stix, Sylvan L.
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Stone, Miss Elizabeth B.	Sturgis, Reginald H.	Taintor, Charles Willson
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Storm, George H.	Stursberg, W.	Talcott, Harry P.
Storm, Jules P.	Sulger, Dr. A.	Talmage, Mrs. Edw. T. H.
Storm, Raymond W.	Sullivan, Mrs. James	Tanner, Mrs. E. J. S.
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Strasser, Mrs. Arthur L.	Sullivan, Walter S.	Tate, Joseph
Strater, Charles G.	Sullivan, William George	Taussig, N. W.
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Straus, Mrs. H. Grant	Sulzberger, Cyrus L.	Taylor, C. Newbold
Straus, Herbert N.	Sumner, Mrs. Graham	Taylor, Edwin P., Jr.
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Straus, Marcus	Sunderland, Edwin S. S.	Taylor, F. Carroll
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Straus, Mrs. Roger W.	Sutro, Lionel	Taylor, Mrs. Knox
Strauss, Albert	Sutro, Mrs. Lionel	Taylor, Myron C.
Strauss, Mrs. Albert	Sutro, Richard	Taylor, W. A.
Strauss, Mrs. Daisy	Sutro, Victor	Taylor, Walter F.
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Strauss, John Francis	Swan, James A.	Teele, Arthur W.
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Strawn, Wm. H.	Swanson, Dr. F. J.	Teeney, Daniel G.
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Streit, Raymond E.	Swartwout, .	Thacher,
Stringham, Raymond B.	Robert Egerton	Major Archibald G.
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 Scott, Dr. S. B.
 Scott, W. C.
 Scott, Wm. G.
 Scranton, B. H.
 Scudder, C. W.
 Seale, Alvin
 Sears, Mrs. Francis B.
 Sears, Frederick E.
 Sears, Richard
 Sefton, Wilfred
 Sefve, Dr. Ivar
 Segerblom, Wilhelm
 Selden, George B.
 Selby, Mrs. Lillia C.
 Sengstak, Theo.
 Sergi, Giuseppe
 Setchell, W. A.
 Severance, F. W.
 Severance, John L.
 Seward, Dr. F. W., Jr.
 Sewell, Ed.
 Sexton, Lee W.
 Sexton, William T.
 Shahan, Edith F.
 Shaner, Ralph E.
 Shanklin,
 Eldridge M., M.D.
 Shanklin, George Bryan
 Sharp, Charles Cutler
 Sharpe, Mrs. C. A.
 Sharrard, W. W.
 Shattuck,
 Frederick C., M.D.
 Shaw, J. C.
 Shaw, Dr. J. Holbrook
 Shaw, Prof. William T.
 Shea, C. Bernard
 Shedd, Solon
 Shelby, Oakley Mitchell
 Sheldon, George E.
 Sheldon, Mrs. J. M. Arms
 Sheldon, Miss Sara Palmer
 Shenon, P. J.
 Shepard, Roger B.
 Shepherd, Mrs. F. B.
 Sherman, Dr. Edward C.
 Shimer, Hervey Woodburn
 Shipley School, The
 Shipton, Stewart
 Shiras, W. K.
 Shoemaker, Clarence R.
 Short, Wm.
 Shrigley, Edward W.
 Shucking, Theodore E.
 Shultz, W. O.
 Silliman, O. P.
 Simons, W. C.
 Simonson, Roger A.
 Simpson, A. T.
 Simpson, Clarence
 Simpson, Claude DeWitt
 Simpson, Mrs. Mark L.
 Simpson, W. J.
 Simpson, Wm. N.
 Sinclair, Harry R.
 Singer, Mrs. John Vincent
 Singleton, Dr. A. O.
 Sisson, Willard C.
 Sjöström, Ivar L.
 Skerrett, Mrs. W. H. W.
 Skillen, Joseph
 Skillern, Dr. Ross Hall
 Sklar, Samuel Barton
 Slater, H. N.
 Sloan, Earle
 Slocum, Frederick V.
 Slocum, George, M.D.
 Slocum, William H.
 Slonaker, Dr. J. Rollin
 Smale, Alverda K.
 Small, A. B.
 Small, Isabel

- Small, Howard K.
 Smith, Adrian E.
 Smith, A. Marguerite
 Smith, Benjamin F.
 Smith, Brockholst M.
 Smith, Charles C.
 Smith, Crawford L.
 Smith, Dudley, M.D.
 Smith, Dudley W.
 Smith, E. Virginia
 Smith, Eugene R.
 Smith, F. Drexel
 Smith, F. M.
 Smith, Mrs. George C.
 Smith, Dr. Harvey M.
 Smith, Hay Watson
 Smith, Henry T., D.D.S.
 Smith, Acheson
 Smith, Donald W.
 Smith, Ezra H.
 Smith, J. H.
 Smith, J. Allan
 Smith, James B.
 Smith, M. J.
 Smith, Philip W., M.D.
 Smith, Roy H.
 Smith, Samuel W., Jr.
 Smith, Mrs. Wallis Craig
 Smith, Mrs. Wikoff
 Smither, Thomas M.
 Smyth, E. Graywood
 Snell, Francis Arnold
 Snelling, R. Paul
 Snow, Edgar M.
 Snowden,
 Alexander O., Jr.
 Snyder, Charles E.
 Snyder, Dr. F. D.
 Snyder, Harry
 Snyder, Harry R., Jr.
 Snyder, John W.
 Snyder, L. L.
 Sochis, Morris S.
 Sollas,
 Prof. W. J., D.Sc., F.R.S.
 Somers, L. H.
 Soule, Frank C.
- Southard, Geo. F.
 Southwick, Mrs. Joseph
 Spalding, Eric
 Spaulding, Harry B.
 Spaulding, Rolland H.
 Spaulding, Samuel S.
 Spearing, J. Zach.
 Speer, S. B. Dick
 Spencer, Elmer G.
 Spencer, G. J.
 Spencer, Henry Benning
 Spencer, John C., M.D.
 Spencer, Robert L.
 Sperlin, O. B.
 Sperry, George B.
 Spofford, Carl L.
 Sprague, A. A., 2d
 Sprague, Harry L.
 Sproul, Miss Cleona C.
 Spruance, Mrs. William C.
 Staebner, F. W.
 Stage, Charles W.
 Stanier, C. Y.
 Stanley, Mrs. D. S.
 Stanley, E. B.
 Stanwick, Chas. A.
 Starks, Edwin C.
 Starr, Charles S.
 Stauffer, Clinton R.
 Stauft, J. Lauer
 Stebbins, Frederick A.
 Stehlin, H. G.
 Steinbach, José
 Stephan, John F.
 Stephan, Sol A.
 Stephano, C. S.
 Stephenson, Lyle
 Sternberg, Charles H.
 Sternberg, Charles M.
 Sternberg, George F.
 Stevens, F. Paul
 Stevens,
 Mrs. Frederick Waeir
 Stevens, Gorham P.
 Stevens, Henry G.
 Stevens, J. P.
 Stevens, James C.
- Stevenson, Miss Mary E.
 Stevenson, Paul H., M.D.
 Stewart, Col. Cecil
 Stewart, Colin C., Ph.D.
 Stewart, Dr. D. A.
 Stewart, Miss Dorothy R.
 Stewart, G. R.
 Steyermark, Julian A.
 Stiles, Richard J.
 Stingelin, Dr. Theodor
 Stoddard, Herbert L.
 Stoddard, Mrs. Jennie G.
 Stolba, Stanley
 Stoll, K. L., M.D.
 Stone, Alan
 Stone, Miss Elisabeth W.
 Stone, Harry C.
 Stone, Harry H.
 Stone, Rev. Dr. James S.
 Stone, Julius F.
 Stone, Leon Max
 Stork, C. W.
 Stork, G. F.
 Storrs, Lucius S.
 Stott, Louis N.
 Stowe, Franklin D. L.
 Straley, Prof. H. W., 3d
 Strattan, Mrs. George W.
 Straus, Aaron
 Streaker, George H.
 Streeter, Daniel W.
 Streeter, Roy R.
 Streever, F. S.
 Strohl, Mrs. Fry
 Struthers, M. S.
 Stuart, C. H.
 Stuart, Geo. H. 3d
 Stuart, W. M.
 Stump, H. Arthur
 Sturges, Rush
 Sturgis, S. Warren
 Sturtevant,
 Maj. Charles G.
 Sturtevant, R. S.
 Sudduth, W. H.
 Sugden, Arthur W.
 Sullivan, Mrs. R. J.

- Sulloway, Frank J.
 Suman, John R.
 Sutherland, Miss Lucy
 Sutton, Will
 Suydam, H. W.
 Swabey, E. C.
 Swain, Howard T.
 Swain, W. Moseley
 Swan, Dr. Wm. D.
 Swann, Reginald Le Grand
 Swarth, Harry S.
 Swartz, E. G.
 Swarthmore
 College Library
 Swarts, Gardner T., Jr.
 Sweeney, Dr. Arthur
 Sweet, Henry N.
 Sweetser, Albert R.
 Swenson, Dr. Carl G.
 Swift, Carleton B.
 Swift, Mrs. G. F.
 Symington, Mrs. Jack
 Synnott, Thos. W.

 Taft, Mrs. Charles P., 2d
 Taft, Elihu B.
 Talbot, Miss Mignon
 Talbot, Nathan B.
 Tandy, Frank N.
 Tate, J. M., Jr.
 Taylor, Mrs. E. A.
 Taylor, Frank M.
 Taylor, Lionel E.
 Taylor, Marcia I.
 Taylor, Truman R.
 Taylor, Warner
 Taylor,
 Mrs. William Rivers
 Teare, Mrs. D. T.
 Tebbetts, Major Frank P.
 Tegland, Miss Nellie M.
 Tennent, David H.
 Tennent, Geo. R.
 Tenny, Mark W.
 Terry, Jay
 Terry, M. V.
 Terwilliger, Marion

 Tester, Allen C.
 Tevis, Lloyd
 Tew, James D.
 Thacher, Arthur
 Thayer, Frederick C., M.D.
 Thistlethwaite, Wm. J.
 Thomas, A. B.
 Thomas, Abram Owen
 Thomas, Edward S.
 Thomas, Elmslie Timbs
 Thomas, F. F., Jr.
 Thomas, L. Alvin
 Thomas, Miss Marion P.
 Thomas, Samuel Hinds
 Thomas, W. A.
 Thomasson, Nelson
 Thompson, A. W.
 Thompson, Albert A.
 Thompson, Ethan W.
 Thompson, F. P., M.D.
 Thompson, Miss Gretchen
 Thompson, Henry A.
 Thompson, Horace E.
 Thompson, Howard J.
 Thompson, John A.
 Thompson, John W.
 Thompson, Jos. S.
 Thorndike, Mrs. John L.
 Thoron, Benjamin W.
 Thorp, Joseph G.
 Thorson, Martin
 Throop, Charles M.
 Thurston, Emory W.
 Thurston, James E.
 Thysell, John C.
 Tidd, Mrs. John N.
 Tilden, Charles L.
 Tilden, Louis Edward
 Tillinghast, Chas. F.
 Tillisch, Mary A.
 Timmins, George H.
 Tobin, Mrs. Daniel S.
 Todd, Edith B.
 Todd, James
 Todd, Dr. Joe H.
 Todd, Dr. T. Wingate
 Tolman, E. E.

 Tompkins, Philip W.
 Tormey, Alfred J.
 Townsend, Mrs. David
 Townsend, Harrell
 Townsend, J. Barton
 Townsend, Wm. S.
 Townshend, Henry H.
 Treat, Fred A.
 Tredwell, John
 Trotter, Wm. Henry
 Trowbridge, John M.
 Trufant, L. H., M. D.
 Trump, Chas. C.
 Trussell, Arthur J.
 Tryon, John W.
 Tschudy, Earl H.
 Tubbs, Frank Dean
 Tucker, Chas. Edward
 Tuckerman, Wolcott
 Tufts, Leonard
 Tuller, Dr. Chas. S.
 Tullock, H. S.
 Tunks, Rev. Walter F.
 Turman, A. E.
 Turnbull, E. J.
 Turnbull, Mrs. Sarah A.
 Turner, Chas. C.
 Turner, Miss Hettie Reid
 Turney, Dr. Omar A.
 Turrell, Loring W.
 Tuttle, Carlisle B.
 Tuttle, H. Emerson
 Tuveson, Nels A.
 Tyrode, Maurice V., M.D.
 Tyson, Carroll S., Jr.

 Uihlein, Edgar J.
 Uihlein, Joseph E.
 Unger, Dr. John S.
 Ungerleider, Samuel
 Upham, Elizabeth
 Upham, Isaac O.
 Upham, Mrs. Maude B.
 Upton, George, Jr.
 Urmston, J. K.
 Utter, Henry E., M.D.

Vail, Dr. Derrick T., Jr.	Wadsworth,	Warriner, J. B.
Vail, Dr. Harris H.	Samuel F., M.D.V.	Warthin, Thos. A.
Vaillant, G. W.	Wagner, Hayden W.	Washburn, C. Fred
Valentine, Mrs. Grace E.	Wagner, John H., Jr.	Washburne, A. C.
VanBenschoten, John, Jr.	Wagner, Samuel Tobias	Watkins, Edgar
Van Benthuyssen, Marian	Waite, Miss Emily S. M.	Watres, Col. L. A.
Van Devanter, Willis	Walitt, Mrs. Clara Farmer	Watson, Lucretia S.
Van Deventer, C.	Walcutt, Mrs. H. L.	Watson, Thomas A.
Van Duzer, H. B.	Waldo, Edward H.	Wayman, W. O.
Van Epps, John Sminck	Waldon, Sidney D.	Wayne, Arthur T.
van Houten, J.	Waldron, C. H.	Weare, Mrs. Ely E.
Van Hyning, T.	Waldron, L. R.	Webb, Mrs. A.
van Oort, Prof. Dr. E. D.	Walker, Elda R.	Webb, Gerald B., Jr.
Van Orden, William	Walker, Harrington E.	Webb, Lewis M.
van Santvoord, Seymour	Walker, Hiram H.	Webb, Roscoe J.
Van Wagenen, Alfred	Walker, Joseph R.	Webb, Walter F.
Van Wart, R. M.	Walker, Mrs. R. A.	Weber, Miss Grete
Van Winkle, Dr. J. O.	Walker, Talbot C.	Weber, Louis
Vaughan, Samuel	Walker, Thaddeus	Weber, Prof. Max
Vaughn, R. G.	Wall, Ashbel T.	Webster, Dr. Ralph W.
Veeder, Curtis H.	Wallace, Mrs. E. G.	Webster, Lieut. Wm. W.
Verner, M. S.	Wallace, Miss Enid	Weed, Louis H.
Verrill, A. E.	Wallace, Florian D.	Weeks, Alanson
Versluys, Prof. Dr. J.	Wallace, Herbert I.	Weeks, Carl
Vestal, A. G.	Wallace, Lindsay H.	Weeks, Sinclair
Vevers, Dr. G. M.	Wallace, Oliver A.	Wehrle, Augustine T.
Vial, Mrs. George M.	Wallace, W. L., M.D.	Weil, Leslie
Vibert, Charles W.	Wallace, W. W.	Weis, Dr. Joseph D.
Vick, Albert F. W.	Wallace, Wm.	Weis, Samuel W.
Vickery, Mrs. H. F.	Walsh, Dr. Groesbeck F.	Weisman, M.
Vincent, Bishop Boyd	Walsh, Maurice N.	Weiss, Albert P.
Vissering, Harry	Walters, L. L.	Welch, Andrew
Vogel, Felix A.	Walton, Geo. W.	Welch, Ashbel
Voigtlander, George	Walton, W. J.	Welch, Chas. W.
Volkmann,	Wampler, F. C.	Welch, H. K, W.
Miss Mary-Gordon	Wanzer, W. G.	Welch, J. M.
von Ditten,	Ward, Frank Hawley	Weld, Elizabeth F.
Miss Erika Wülfing	Ward, Rowland	Weld, Rev. George F.
von Geldern,	Warner, Mrs. I. De Ver	Weller, Stuart
Chas. E., M.D.	Warner, Walter	Welles, Mrs. Edward
Vonnegut, Richard	Warren, Bentley W.	Welles, Robert
Vonsen, M.	Warren, Fiske	Welling, John P.
von Vietinghoff, Dr. Karl	Warren, Frank M.	Wellington,
Vorhies, Chas. T.	Warren, George C.	Roger Underwood
Vorkink, Mrs. I.	Warren, Manfred L.	Wells,
	Warren, Samuel D.	Capt. Chester, U.S.N.
Wadsworth, Samuel	Warren, Mrs. Wm. C.	Wells, Daniel D.

- Wells, Geo. B.
 Welsh, Herbert Frazer
 Welsh, Robert F.
 Welton, Nellie M.
 Wenner, Geo. D.
 Wenrich, Marion
 Wentworth, Frank W.
 Wernigk, Dr. R.
 Wertheimber, A.
 West, Dr. Frederic Beall
 Westbrook, Stillman F.
 Westcott, W. R.
 Wetherill, Richard
 Wetherill,
 Richard B., M.D.
 Wetherill, Wm. Chattin
 Wetherill, William Henry
 Whaley, Mrs. Jeanie N.
 Whalley, Miss Muriel E.
 Wheeler, Charles
 Wheeler, Miss Clara
 Wheeler, Deming
 Wheeler, James W.
 Wheeler, Joseph L.
 Wheeler, Nathaniel E.
 Wheeler, Mrs. Samuel H.
 Wheeler, William H., 2d
 Wheelwright, Miss Mary C.
 Whelan, Ralph
 Whelden, Roy M.
 Wherry, Wm. B.
 Whitaker, F. B.
 Whittall, F. D.
 Whittall, Lawrence W.
 Whitby, Eddy
 White, Alain C.
 White, Andrew S.
 White, Mrs. Charles F.
 White, Dr. Charles J.
 White, Dr. E. Grace
 White, Eric P.
 White, James C., M.D.
 White, Dr. Joseph A.
 White, Philip T.
 White, Ralston
 White, Wm. B.
 White, Wm. Henry
- White, Windsor T.
 Whitehead,
 Ralph Radcliffe
 Whiting, Adrian P.
 Whiting, Dr. Henry A.
 Whiting, Mrs. Samuel R.
 Whiting, Willard C.
 Whitman, Gerald
 Whitman, Hendricks H.
 Whittall, Harold O.
 Whitney, C. W.
 Whitney, David C.
 Whitney, Frederick A.
 Whitney,
 Mrs. Harwood Otis
 Whitney, Oscar C.
 Whitney, Willis R.
 Whittaker, Elizabeth L.
 Whittemore, Harris
 Whittle, W. O.
 Whitwell, Frederick S.
 Why, Evelyn T.
 Wick, Laura
 Wickersham, James
 Wier, Jeanne Eliz.
 Wiesen, Thomas F.
 Wightman, Henry Nicoll
 Wilberding, J. B.
 Wilcox, Claude S.
 Wilcox, Edwin J.
 Wilcox, Walter D.
 Wilder, Gerrit P.
 Wilder, Harris H.
 Wilder, S. H.
 Wiley, Lena C.
 Wilharm, Fred. C.
 Wilkinson, Mrs. Henry L.
 Will, Burns
 Will, George F.
 Will, Louis
 Willard, Dr. Bradford
 Willard, Frank C.
 Willcox, Prof. Mary A.
 Willetts, Ernest W., M.D.
 Willey, Arthur
 Willey, Gordon F., M.D.
 Williams, Amory L.
- Williams, Mrs. C. S.
 Williams, David W.
 Williams,
 Prof. Edw. H., Jr.
 Williams, Ellison A.
 Williams, Francis H.
 Williams, Mrs. George R.
 Williams, Mrs. Geoffrey
 Williams, Henry P.
 Williams, Dr. Herbert U.
 Williams, Ira A.
 Williams, Mrs. J. Bertram
 Williams, Richard E.
 Williams, Roger B.
 Williams, S. P., Jr.
 Williams, Wentworth
 Williamson, E. B.
 Willing, Richard L.
 Willits, Dr. I. Pearson
 Willock, J. Scott
 Willoughby, David P.
 Wilson, Andrés M.
 Wilson, Charles Branch
 Wilson, Mrs. Charles M.
 Wilson, Mrs. Etta S.
 Wilson, H. E.
 Wilson, Dr. J. Howard
 Wilson, Dr. John A.
 Wilson, Mrs. Lydia M.
 Wilson, Mountford S.
 Wilson, Robert, Jr., M.D.
 Wilson, Russell C.
 Wimer, Geo. N.
 Windle, Ernest
 Winkler, Albert J.
 Winn, Herbert J.
 Winne, Dr. Charles K., Jr.
 Winslow, Floyd S., M.D.
 Winslow, Winthrop C.
 Winston, William O.
 Winter, Dwight
 Wislocki, George B., M.D.
 Witcher, William
 Wolcott, E. R.
 Wolfe, Edmund S.
 Wolverton, B. C.
 Wood, Walter

Woodford, R. H.	Wright, Mrs. Eva Edgar	Yanagida, Hikoji
Woodring, Wendell P.	Wright, Gifford K.	Yarnall, Charlton
Woodruff,	Wright, John S.	Yerkes, Robert M.
Mrs. Charles Albert	Wright, Thew	Yocom, Ernest G.
Woods, Edward A.	Wuerpel, Edmund H.	York, George W.
Woods, Robert S.	Wülfig, Otto	York, Philip S.
Woodward, Lemuel Fox	Wülfig, Peter	Younger, C. H.
Woodward, Ralph	Wullen, Mrs. Hilda H.	
Woodwell, John	Wunderle, Horace G., Jr.	
Woolman, Henry N., Jr.	Wurlitzer, Rembert	Zapffe, Carl
Wooster, L. C.	Wurm, Fred, Jr.	Zetek, James
Worcester, H. A.	Wurtzel, Joseph	Zimmerman, John B.
Workman, W. H.	Wyatt, Grace	Zinkin, Frances R.
Wright, A. B.	Wyer, Samuel S.	Zinsmeister,
Wright, Albert Hazen	Wylde, Henry Anson	Mrs. Elsie Ahrens
Wright, Mrs. Edward Clark	Wynn, Henry G.	Zuno, Hon. José J.

VI. MUNICIPAL AND STATE RELATIONSHIP INCORPORATION, CHARTER AND CONTRACT

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, Chas. 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.*

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 take and hold by gift, devise, bequest, purchase or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.†

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, and shall be and be classed as an educational corporation.*

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.

[L. S.] Given under my hand and seal of Office at the City
 of Albany this fourteenth day of April, in the
 year one thousand eight hundred and sixty-nine.

D. WILLERS, JR., *Deputy Secretary of State.*

*Sections 1 and 4. As amended by Chapter 162 of the Laws of 1909, entitled "An Act to amend chapter one hundred and nineteen of the laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' in relation to classifying said corporation and modifying its corporate purposes."

†Section 3. As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

**CONTRACT WITH THE DEPARTMENT OF PARKS
FOR THE OCCUPATION OF THE NEW BUILDING**

THIS AGREEMENT, made and concluded on the twenty-second day of December, in the year one thousand eight hundred and seventy-seven, between the DEPARTMENT OF PUBLIC PARKS OF THE CITY OF NEW YORK, the party of the first part, and the AMERICAN MUSEUM OF NATURAL HISTORY, party of the second part, witnesseth:

Whereas, by an Act of the Legislature of the State of New York, passed April 22d, 1876, entitled "An Act in relation to the powers and duties of the Board of Commissioners of the Department of Public Parks, in connection with the American Museum of Natural History, and the Metropolitan Museum of Art," the said party of the first part is authorized and directed to enter into a contract with the said party of the second part, for the occupation by it of the buildings erected or to be erected on that portion of the Central Park in the City of New York, known as Manhattan Square, and for transferring thereto and establishing and maintaining therein its museum, library and collections, and carrying out the objects and purposes of said party of the second part; and,

Whereas, a building contemplated by said act has now been erected and nearly completed and equipped in a manner suitable for the purposes of said Museum, as provided in the first section of the Act of May 15, 1875, known as Chapter 351, of the Laws of 1875, for the purpose of establishing and maintaining therein the said Museum, as provided by the said last named act, and by the Act of April 5, 1871, known as Chapter 290, of the Laws of 1871; and,

Whereas, it is desired as well by the said party of the first part, as by the said party of the second part, that, immediately upon the completion and equipment of said building, the said party of the second part should be established therein, and should transfer thereto its museum, library and collections, and carry out the objects and purposes of the said party of the second part;

Now, therefore, it is agreed by and between the said parties as follows, namely:

First.—That the said party of the first part has granted and demised and let, and doth, by these presents, grant, demise and let, unto the said party of the second part, the said buildings and the appurtenances thereunto belonging, to have and to hold the same so long as the said party of the second part shall continue to carry out the objects and purposes defined in its charter; or such other objects and purposes as by any future amendment of said charter may be authorized; and shall faithfully keep, perform, and observe the covenants and conditions herein contained on its part to be kept, performed and observed, or until the said building shall be surrendered by the said party of the second part, as hereinafter provided.

Secondly.—That neither the party of the first part, its successor or successors, nor the Mayor, Aldermen and Commonalty of the City of New York, shall be in any manner chargeable or liable for the preservation of the said building or the property of the party of the second part which may be placed therein, against fire, or for any damage or injury that may be caused by fire to the said property; but it is agreed that, damages as aforesaid excepted, the said party of the first part will keep said building, from time to time, in repair.

Thirdly.—That as soon after the completion and equipment of said building as practicable, said party of the second part shall transfer to, and place and arrange in said building, its museum, library and collections, or such portion thereof as can be properly displayed to the public therein, and shall have and enjoy the exclusive use of the whole of said building, subject to the provisions herein contained, and the rules and regulations herein prescribed, during the continuance of the term granted, or until a surrender thereof, as herein provided.

Fourthly.—That the exhibition halls of said building shall, on Wednesday, Thursday, Friday and Saturday of each week, and on all legal or public holidays, except Sundays, be kept open and accessible to the public, free of charge, from nine o'clock A. M. until half an hour before sunset, under such rules and regulations as the party of the second part shall from time to time

prescribe; but on the remaining days of the week the same shall be only open for exhibition to such persons, upon such terms as the said party of the second part shall from time to time direct. But all professors and teachers of the public schools of the City of New York, or other institutions of learning in said city, in which instruction is given free of charge, shall be admitted to all the advantages afforded by the said party of the second part, through its museum, library, apparatus, and collections, or otherwise, for study, research and investigation, free of any charge therefor, and to the same extent and on the same terms and conditions as any other persons are admitted to such advantages, as aforesaid.

Fifthly.—That the museum, library and collections, and all other property of said party of the second part, which shall or may be placed in said building, shall continue to be and remain absolutely the property of said party of the second part, and neither the said party of the first part nor the said the Mayor, Aldermen and Commonalty, shall by reason of said property being placed in said building, or continuing therein, have any right, title, property or interest therein; nor shall the said party of the second part, by reason of its occupation and use of said building under this agreement, acquire, or be deemed to have any right, title, property or interest in said building, except so far as expressly granted by this agreement.

Sixthly.—That the said party of the second part shall, on or before the first day of May, in every year, during the continuance of this agreement, submit to the said party of the first part, its successor or successors, a detailed printed report of the operations and transactions of the said party of the second part, and all its receipts and payments, for the year ending with the 31st day of December next preceding.

Seventhly.—That said party of the first part shall have, at all times, access to every part of the said building for general visitation and supervision, and also for the purpose of the performance of the duties devolved upon it by the laws of the State of New York, or of the City of New York. That the police powers and supervision of said party of the first part shall extend in, through and about said building. That the said party of the

second part may appoint, direct, control and remove all persons employed within said building, and in and about the care of said building, and the museum, library and collections therein contained.

Eighthly.—That said party of the second part may, at any time, after the expiration of three, and before the expiration of six, months from the date of the service of a notice in writing to said party of the first part, its successor or successors, or to the Mayor of the City of New York, of its intention so to do, quit and surrender the said premises and remove all its property therefrom; and upon and after such notice, the said party of the second part shall and will, at the expiration of the said six months, quietly and peaceably yield up and surrender unto the said party of the first part and its successors all and singular the aforesaid demised premises. And it is expressly understood and agreed by and between the parties hereto that if the said party of the second part shall omit to do, perform, fulfill or keep any or either of the covenants, articles, clauses and agreements, matters and things herein contained, which on its part are to be done, performed, fulfilled or kept, according to the true intent and meaning of these presents, then and from thenceforth this grant and demise shall be utterly null and void. And in such case it shall and may be lawful for said Department to serve or cause to be served on the said party of the second part a notice in writing declaring that the said grant hereinbefore made has become utterly null and void and thereupon the said party of the first part, its successor or successors (ninety days' time being first given to the said party of the second part to remove its property therefrom), may reënter, and shall again have, repossess and enjoy the premises aforementioned, the same as in their first and former estate, and in like manner as though these presents had never been made, without let or hindrance of the said party of the second part, anything here contained to the contrary notwithstanding.

Ninthly.—And it is further expressly understood and agreed, by and between the parties hereto, that this agreement may be wholly canceled and annulled, or, from time to time, altered, or modified, as may be agreed, in writing, between the said par-

ties, or their successors, anything herein contained to the contrary in any wise notwithstanding.

In witness whereof, the party of the first part hath caused this agreement to be executed by their President and Secretary, pursuant to a resolution of the Board of Commissioners of said Department, adopted at a meeting held on the thirtieth day of January, in the year of our Lord one thousand eight hundred and seventy-eight; and the said party of the second part hath caused the same to be executed by their President, and their official seal affixed thereto, pursuant to a resolution of the Trustees of the American Museum of Natural History, adopted at a meeting held on the twelfth day of February, in the year of our Lord one thousand eight hundred and seventy-seven.

In presence of
D. PORTER LORD.

JAMES F. WENMAN,
*President Department of Public Parks
of the City of New York.*

WILLIAM IRWIN,
*Secretary Department of Public Parks
of the City of New York.*

SEAL
of the American
Museum of
Natural History

ROBERT L. STUART,
*President American Museum of
Natural History.*

STATE OF NEW YORK, }
City and County of New York, } ss.:

On this 12th day of February, in the year 1878, before me personally came James F. Wenman, President of the Department of Public Parks of the City of New York, and William Irwin, Secretary of the said Department of Public Parks, with both of whom I am personally acquainted, and both of whom being by me duly sworn, said that they reside in the City and County of New York; that the said James F. Wenman is the President, and the said William Irwin is the Secretary of the said Department of Public Parks, and that they signed their names to the foregoing agreement by order of the Board of Commissioners of the said Department of Public Parks, as such President and Secretary.

[SEAL.]

W. C. BESSON,
(73) *Notary Public N. Y. Co.*

STATE OF NEW YORK,
City and County of New York, } ss.:

On this 12th day of February, in the year 1878, before me personally came Robert L. Stuart, the President of the American Museum of Natural History, with whom I am personally acquainted, who being by me duly sworn, said that he resides in the City and County of New York, that he is the President of the American Museum of Natural History, and that he knows the corporate seal of said museum, that the seal affixed to the foregoing agreement is such corporate seal, that it is affixed thereto by order of the Board of Trustees of said American Museum of Natural History, and that he signed his name thereto by the like order, as President of said Museum.

[SEAL.] W. C. BESSON,
(73) Notary Public N. Y. Co.

Recorded in the office of the Register of the City and County of New York in Liber 1426 of Cons., page 402, February 16, A. D. 1878, at 9 o'clock A. M., and examined.

Witness my hand and official seal,

[SEAL.] FREDERICK W. LOEW,
Register.

NOTE.—July 25, 1892, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free to the public "throughout the year, excepting Mondays, but including Sunday afternoons and two evenings of each week."

June 29, 1893, by consent of the Trustees, section fourth was modified to enable the Trustees to open the Museum free of charge to the public "throughout the year for five days in each week, one of which shall be Sunday afternoon, and also two evenings of each week."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
IN THE CITY OF NEW YORK

REVISED AND AMENDED TO DECEMBER 31, 1926

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 thirty in all at one time, and in addition, the Mayor, the Comptroller, and the President of the Department of Public Parks, of the City of New York, for the time being, *ex-officio*, shall be the Trustees to manage the affairs, property and business of the Corporation.

The elective members of the Board in office on November 23rd, 1925, shall hold their office until the expiration of their respective terms. Such elective members of the Board shall continue to be divided into five classes, which hereafter shall consist of six members each, to serve for five years after the election of each class respectively. The Board of Trustees at each annual meeting hereafter, or at an adjournment thereof, shall by ballot, by a majority vote of the Trustees present at the meeting, elect six Trustees to supply the places of the class whose term expires at that meeting; said newly elected Trustees to hold office for five years and until their successors are elected. In case of a vacancy in the Board, caused by death, resignation, disqualification, increase in the authorized number of Trustees or otherwise, the vacancy shall be filled by ballot, in like manner, by the Board of Trustees at any regular or special meeting, for the unexpired term. A trustee elected to fill a vacancy in a particular class shall hold office only until the expiration of the terms of such Trustees as originally composed such class. No person shall be eligible for election as Trustee unless his name shall be presented by the Nominating Committee at a regular or special meeting of

the Board previous to the meeting at which his name shall be acted upon. Written notice of such election and the vacancy to be filled shall be sent to the Trustees at least one week prior to said meeting.

ARTICLE III

The Trustees shall meet regularly, on the first Monday after the second day of every January, on the first Monday of May, and on the second Monday of 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 regular meeting in January, 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

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, a Treasurer and a Secretary, who shall be elected from among the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

The Board of Trustees shall have power to appoint a Director who, acting under the authority and control of the President,

shall be the chief administrative officer of the Museum; but shall not be a member of the Board. He shall hold office during the pleasure of the Board.

ARTICLE V

SECTION 1. The President shall have the general supervision, direction and control of the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place, or in the absence of these officers, a Trustee appointed by the Executive Committee.

SEC. 2. The Secretary shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and shall perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its direction, shall perform the duties of the Secretary in his absence or inability to act. The Assistant Secretary shall be an administrative officer of the Museum and shall act under the direction of the President or the Secretary. He shall hold office during the pleasure of the Board.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each regular 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.

The Board of Trustees shall have power to appoint an Assistant Treasurer, who shall perform such duties as it may direct, and who shall hold office during its pleasure.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

ARTICLE VI

The Executive Committee shall consist of nine Trustees, the President, the Secretary and the Treasurer *ex-officio* and six others, to be appointed each year in the manner provided in Article IV. They shall have the control and regulation of the collections, library and other property of the Museum; and shall have power generally to conduct the business of the Museum, subject to the approval of the Board. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII

The Auditing Committee shall consist of three Trustees. They shall have the books of the Museum duly audited, at least once in six months, by an authorized public accountant to be selected by them.

ARTICLE VIII

The Finance Committee shall consist of five Trustees, the Treasurer *ex-officio* and four others to be elected each year in the manner provided in Article IV. They shall have general charge of the moneys and securities of the Endowment and other permanent funds of the Museum, and such real estate as may become the property of the Corporation, with authority to invest, sell and reinvest the same, subject to the approval of the Board of Trustees.

Three members shall constitute a quorum.

ARTICLE IX

The Nominating Committee shall be composed of three Trustees, to whom shall be first submitted the names of any persons proposed as candidates for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as it may deem to be for the interest of the Museum. A fortnight before the annual meeting they shall prepare and mail to each member of the Board of Trustees a list of

the candidates for officers and Trustees to be balloted for at the said meeting.

ARTICLE X

Nine Trustees 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 XI

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

The incorporators of The American Museum of Natural History shall be designated as Founders of the Museum.

Any person contributing or devising \$100,000 in cash, securities or property to the funds of the Museum may be elected a Member of the Endowment Class of the Museum.

Any person contributing or devising \$50,000 in cash, securities or property to the funds of the Museum may be elected a Benefactor of the Museum.

Any person contributing \$25,000 in cash, securities or property to the funds of the Museum may be elected an Associate Founder of the Museum who after being so elected shall have the right in perpetuity to appoint the successor in such associate foundership.

Any person contributing \$10,000 to the funds of the Museum may be elected an Associate Benefactor of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in such associate benefactorship.

Any person contributing \$1,000 to the funds of the Museum, at one time, may be elected a Patron of the Museum, who after

being so elected shall have the right in perpetuity to appoint the successor in such patronship.

Any person contributing \$500 to the funds of the Museum, at one time, may be elected a Fellow of the Museum, who after being so elected 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 the last will and testament.

Any person contributing \$200 to the funds of the Museum, at one time, may be elected a Life Member of the Museum.

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

ARTICLE XIII

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

ARTICLE XIV

No alterations shall be made in this Constitution, unless at a regular meeting of the Trustees, or at a special meeting called for this purpose; nor by the votes of less than a majority of all the Trustees; nor without notice in writing of the proposed alterations, embodying the amendment proposed to be made, having been given at a previous regular meeting.

BY-LAWS
REVISED AND AMENDED TO DECEMBER 31, 1926

I

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

II

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

III

The regular meetings of the Executive Committee shall be held on the third Wednesday of each month, but special meetings may be held at any other time on a two days' call issued by order of the President, or at the request of three of its members.

IV

All bequests or legacies, not especially designated, and all membership fees, excepting Sustaining, Annual and Associate Membership fees, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

V

SECTION 1. No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution.

SEC. 2. No bills shall be paid unless approved by the Director or the Executive Secretary, and countersigned by one of the following named Trustees: President, First Vice-President, Second Vice-President, or Treasurer.

SEC. 3. The accounts of the Museum shall be under the care of a Bursar, who, on recommendation of the President and

the Treasurer, shall be appointed by the Board of Trustees and be under its direction. He shall give such bonds for the faithful performance of his duties as the Board may direct, and shall hold office during the pleasure of the Board. The Bursar, acting under the direction of the President or Treasurer, shall be the official representative of the Treasurer at the Museum, and as such shall be the head of the Treasurer's office there.

VI

The Board of Trustees shall have power to appoint, on recommendation of the Director, a Superintendent of Building and such other officers as may be deemed necessary, who, acting under the instruction of the Director or the Executive Secretary, shall have charge of the construction, maintenance, alterations and repairs of the buildings, and shall be responsible for their sanitary condition. They shall hold office during the pleasure of the Board.

VII

The Board of Trustees shall have power to appoint a Registrar, who, acting under the instruction of the Director or Executive Secretary, shall inspect all incoming and outgoing shipments, and shall attend to the details of matters relating to customs.

VIII

Benefactors, giving \$50,000, are each entitled to 1 Subscriber's Ticket, 10 Complimentary Season Tickets and 10 Tickets for a single admission.

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

Patrons, giving \$1,000, 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 \$200, are each entitled to 1 Subscriber's Ticket and 7 Tickets for a single admission.

Sustaining Members, paying \$25 yearly, 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 4 Tickets for a single admission.

Associate Members, paying \$3.00 yearly, are each entitled to 1 Subscriber's Ticket, admitting to the Members' Room, and 2 Tickets for a single admission; also to current copies of the Museum Journal and the Annual Report.

IX

The Board of Trustees hereby creates a class of honorary Members, without membership fee, to be designated as Corresponding Members. Upon recommendation of the Scientific Staff, any person interested in or actively engaged in scientific research may be elected by the Board of Trustees a Corresponding Member, such election being for a period of five years and subject to renewal. Corresponding Members shall be entitled to current numbers of *Natural History* and to a copy of such scientific publications of the Museum as they may desire for the prosecution of their researches.

NOTE.—A Subscriber's Ticket admits to the Members' Room, also to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Members' Room, and are issued to Subscribers for distribution among friends and visitors.

**FOR THE CONSTRUCTION AND EQUIPMENT OF
THE SOUTHEAST WING AND COURT BUILDING
OF THE AMERICAN MUSEUM OF NATURAL
HISTORY**

(C.D.P. 3 G, H, and J)

LEGAL ENACTMENTS OF 1921

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended by chapter 618 of the Laws of 1921, the Comptroller be and is hereby authorized to issue, in the manner provided by section 169 of the Greater New York Charter, serial bonds of The City of New York, in an amount not exceeding one million five hundred thousand dollars (\$1,500,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe; the proceeds to the amount of the par value thereof to be used by the Department of Parks, Borough of Manhattan, for the construction and equipment of the southeast wing and court building of the American Museum of Natural History; the cost of general construction, estimated at approximately one million three hundred thousand dollars (\$1,300,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding forty (40) years; the cost of plumbing, heating and ventilating, and electric work and fixtures, estimated at approximately one hundred and ninety thousand dollars (\$190,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding fifteen (15) years; and the cost of furniture and equipment, estimated at approximately ten thousand dollars (\$10,000), to be financed by an issue of serial bonds, the principal thereof to mature in equal annual installments within a period not exceeding ten (10) years; said apportionment of the costs to be subject to modification if necessary, upon the awarding of the contracts for the several portions of the work; provided, however, that no encumbrance by contract or otherwise shall be made against these authorizations, nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment or its duly authorized representative of such expenditure, or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization, except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract voucher or budget schedule, unless in the case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, December 28, 1921.

JAMES MATTHEWS,
Assistant Secretary.

Amended by the Board of Estimate and Apportionment, August 22, 1924, to provide for Case Construction and Equipment in the Southeast Wing and Court Building.

**APPROPRIATIONS AND EXPENDITURES THEREON TO
DECEMBER 31, 1926**

Receipts:

By direct appropriation and transfers (December 28,
1921, C. D. P. 3 G.)..... **\$1,361,000.00**

Expenditures (including Contracts and Architects' Fees):

Contract No. 1, Construction and Elec-
trical Work..... **\$1,107,495.61**
Architects' Fees 22,032.58

Materials:

Contracts 45,219.98
Open Market Orders..... 18,283.52

Salaries:

Engineers' Payrolls..... 4,080.00
Mechanics' Payrolls..... **57,357.66** **1,254,469.35**

Balance, December 31, 1926..... **\$106,530.65**

Receipts:

By direct appropriation and transfers (December 28,
1921; C. D. P. 3 H.)..... **\$129,000.00**

Expenditures (including Contracts):

Contract No. 2, Plumbing **\$24,977.33**
Contract No. 3, Ventilating and Humidi-
fying 19,600.00

Contract No. 4, Steam Heating and Fume
Removal 68,697.74

Materials:

Contracts 10,708.00
Open Market Orders..... 973.25 **124,956.32**

Balance, December 31, 1926..... **\$4,043.68**

Receipts:

By direct appropriation (December 28, 1921, C. D.
P. 3 J.) **\$10,000.00**

Expenditures**Furniture and Equipment:**

Contracts **\$1,149.90**
Open Market Orders..... 6,921.80 **8,071.70**

Balance, December 31, 1926..... **\$1,928.30**

FOR THE CONSTRUCTION AND EQUIPMENT OF
THE SCHOOL SERVICE BUILDING OF THE
AMERICAN MUSEUM OF NATURAL
HISTORY

(C.D.P. 3 L and M)

LEGAL ENACTMENTS OF 1922

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and is hereby authorized to issue, in the manner provided by said section 169, serial bonds of The City of New York, in an amount not exceeding five hundred and seventy thousand dollars (\$570,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for the construction and equipment of a School Service Building in the southwest Court of the American Museum of Natural History; provided, however, that no encumbrance by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for, until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such proposed expenditure or of the plans, specifications, estimates of cost and forms of such contracts, nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in the case of departmental employees, such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, April 21, 1922.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATIONS AND EXPENDITURES THEREON TO
DECEMBER 31, 1926

Receipts:

By direct appropriation (April 21, 1922, C. D. P. 3 L.)	\$570,000.00
By direct appropriation (July 13, 1923, C. D. P. 3 L.)	121,800.00
	<u>\$691,800.00</u>

Expenditures (including Contracts and Architects' Fees):

Contract No. 1, Construction and Electrical Work	\$495,811.02	
Contract No. 2, Finishing Exhibition Halls	39,522.42	
Contract No. 3, Plumbing	36,141.51	
Contract No. 4, Steam Heating and Ventilating	63,324.00	
Architects' Fees	32,500.83	
Materials:		
Contracts	3,766.60	
Open Market Orders	110.11	
Salaries:		
Engineers' Payrolls	4,499.55	675,676.04
Balance, December 31, 1926		<u><u>\$16,123.96</u></u>

Receipts:

By direct appropriation (July 13, 1923, C. D. P. 3 M.)	\$42,000.00
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Expenditures (including Contracts and Architects' Fees):

Contract No. 1, Construction and Electrical Work	\$30,600.00	
Contract No. 3, Plumbing	1,500.00	
Contract No. 4, Steam Heating and Ventilating	2,500.00	
Architects' Fees	2,081.00	36,681.00
Balance, December 31, 1926		<u><u>\$5,319.00</u></u>

FOR IMPROVEMENTS TO AND ADDITIONAL
EQUIPMENT FOR EXISTING BUILDING OF
THE AMERICAN MUSEUM OF NATURAL
HISTORY
(C.D.P. 3 P and Q)

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and he is hereby authorized to issue, in the manner provided by said section 169 of the Charter, serial bonds of The City of New York in an amount not exceeding one hundred and forty-four thousand nine hundred and fifty dollars (\$144,950) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to the amount of forty-five thousand four hundred and thirty-five dollars (\$45,435), to mature within a period not exceeding twenty-five (25) years, and to the extent of ninety-nine thousand five hundred and fifteen dollars (\$99,515) to mature within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, for improvements to and additional equipment for existing building of the American Museum of Natural History; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representatives, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 29, 1923.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATIONS AND EXPENDITURES THEREON TO
DECEMBER 31, 1926

Receipts:

By direct appropriation (June 29, 1923, C. D. P. 3 P.) .	\$45,435.00
Rescinded, March 4, 1926	12,834.39
	<u>\$32,600.61</u>

Expenditures:

Contracts	\$19,592.00	
Open Market Orders	1,156.86	
Mechanics' Payrolls	1,851.75	22,600.61
Balance, December 31, 1926.....		<u><u>\$10,000.00</u></u>

Receipts:

By direct appropriation (June 29, 1923, C. D. P. 3 Q.) .	\$99,515.00
Rescinded, March 4, 1926.....	22,872.41
	<u>76,642.59</u>

Expenditures:

Contracts	\$21,282.00	
Open Market Orders	12,619.84	
Mechanics' Payrolls	22,740.75	56,642.59
Balance, December 31, 1926.....		<u><u>\$20,000.00</u></u>

**ADDITIONAL FOR CONSTRUCTION AND EQUIP-
MENT OF SCHOOL SERVICE BUILDING
(CODE C.D.P. 3 L)**

**ALSO FOR THE CONSTRUCTION OF INTER-
COMMUNICATING PASSAGEWAYS
(CODE C.D.P. 3 M)**

LEGAL ENACTMENTS OF 1923

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, as amended, the Comptroller be and he is hereby authorized to issue, in the manner provided by said section 169 of the Charter, corporate stock of The City of New York in an amount not exceeding one hundred and sixty-three thousand eight hundred dollars (\$163,800) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature within a period not exceeding fifteen (15) years, the proceeds to the amount of the par value thereof to be used by the Commissioner of Parks, Borough of Manhattan, as follows:

In addition to the appropriation heretofore made (Code C. D. P. 3 L.), for the construction and equipment of a school service building in the southwest court of the American Museum of Natural History.....	\$121,800.00
For the construction of intercommunicating passageways, American Museum of Natural History. (Code C. D. P. 3 M.)	42,000.00

—provided, however, that no expenditure by contract or otherwise, shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employees be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or Budget schedule unless in case of departmental employees such employment is in accordance with the schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 29, 1923.*

JAMES MATTHEWS,
Assistant Secretary.

(Details of expenditures on page 278.)

*Amended July 13, 1923, substituting serial bonds in place of corporate stock.

FOR GENERAL CONSTRUCTION WORK IN EXIST- ING BUILDINGS OF THE AMERICAN MUSEUM OF NATURAL HISTORY (CODE C.D.P. 3 S)

LEGAL ENACTMENTS OF 1925

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment that, pursuant to the provisions of section 169 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue, in the manner provided by said section 169 of the Charter, serial bonds of The City of New York in an amount not exceeding thirty-seven thousand five hundred dollars (\$37,500), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding twenty-five (25) years, the proceeds to the amount of the par value thereof to be used by the Department of Parks, Borough of Manhattan, for general construction work in existing buildings of the American Museum of Natural History; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such expenditure, or of the plans, specifications, estimates of cost, and form of proposed contracts for said improvement; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, May 1, 1925.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATION AND EXPENDITURES THEREON TO DECEMBER 31, 1926

Receipts:

By direct appropriation (May 1, 1925, C. D. P. 3 S.)... \$37,500.00

Expenditures:

Contracts	\$3,528.00	
Open Market Orders	7,245.61	
Mechanics' Payrolls	9,754.28	20,527.89
Balance, December 31, 1926.....		\$16,972.11

FOR CASES AND PLANT EQUIPMENT FOR THE AMERICAN MUSEUM OF NATURAL HISTORY (CODE N.D.P. 3 R)

LEGAL ENACTMENTS OF 1925

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that pursuant to the provisions of section 189 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue tax notes of The City of New York in an amount not exceeding one hundred and ten thousand two hundred and sixty dollars (\$110,260), which shall be included in annual tax levies, in the manner provided by said section 189 of the Charter, the proceeds of which, to the amount of the par value thereof, to be used for cases and plant equipment for the American Museum of Natural History, under the jurisdiction of the Department of Parks, Borough of Manhattan; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such proposed expenditure, or of the plans, specifications, estimates of cost and forms of proposed contracts for said improvements; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, May 1, 1925.

JAMES MATTHEWS,
Assistant Secretary.

APPROPRIATION AND EXPENDITURES THEREON TO DECEMBER 31, 1926

Receipts:

By direct appropriation (May 1, 1925, N. D. P. 3 R.) .. \$110,260.00

Expenditures:

Contracts	\$18,699.83	
Open Market Orders	11,787.97	
Mechanics' Payrolls	25,401.06	55,888.86
Balance, December 31, 1926		<u>\$54,371.14</u>

**FOR FURNISHING AND EQUIPPING THE SCHOOL
SERVICE BUILDING OF THE AMERICAN
MUSEUM OF NATURAL HISTORY
(CODE C.D.P. 3 T)**

LEGAL ENACTMENTS OF 1925

BY THE BOARD OF ESTIMATE AND APPORTIONMENT

RESOLVED, By the Board of Estimate and Apportionment, that, pursuant to the provisions of section 169 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue, in the manner provided by said section 169 of the Charter serial bonds of The City of New York in an amount not exceeding one hundred and fifty thousand dollars (\$150,000), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the principal thereof to mature in equal annual installments within a period not exceeding ten (10) years, the proceeds to the amount of the par value thereof to be used by the Department of Parks, Borough of Manhattan, for furnishing and equipping the School Service Building of the American Museum of Natural History; provided, however, that no expenditure by contract or otherwise shall be made against this authorization nor shall bids upon contemplated contracts be advertised for until after approval by the Board of Estimate and Apportionment, or its duly authorized representative, of such expenditure, or of the plans, specifications, estimates of cost and forms of proposed contracts for said improvements; nor shall any architect, engineer, expert or departmental employee be engaged or employed as a charge against such authorization except after approval by said Board of such employment and of the fee or wage to be paid by preliminary and final contract, voucher or budget schedule, unless in case of departmental employees such employment is in accordance with schedules approved by said Board.

A true copy of resolution adopted by the Board of Estimate and Apportionment, June 19, 1925.

PETER J. MCGOWAN,
Secretary.

**APPROPRIATION AND EXPENDITURES THEREON TO
DECEMBER 31, 1926**

Receipts:

By direct appropriation (June 19, 1925, C. D. P. 3 T.).. \$150,000.00

Expenditures:

Contracts	\$9,384.09	
Open Market Orders	18,417.43	
Mechanics' Payrolls	11,023.58	38,825.10
Balance, December 31, 1926.....		<u>\$111,174.90</u>

VII. PENSION AND INSURANCE

FOURTEENTH ANNUAL REPORT

OF THE

PENSION BOARD

OF

THE AMERICAN MUSEUM
OF NATURAL HISTORY

FOR THE YEAR 1926

OFFICERS AND MEMBERS OF THE PENSION BOARD

1926

Chairman

FELIX M. WARBURG

Vice-Chairman

RALPH W. TOWER

Treasurer

GEORGE F. BAKER, JR.

Secretary

GEORGE N. PINDAR

Trustee Members

F. TRUBEE DAVISON

WALTER B. JAMES

A. PERRY OSBORN

FELIX M. WARBURG

Employee Members

HARRY F. BEERS

GEORGE N. PINDAR

RALPH W. TOWER

Bursar

FREDERICK H. SMYTH

Counsel

LEWIS L. DELAFIELD

Consulting Actuary

S. HERBERT WOLFE

Medical Examiner

DANA W. ATCHLEY, M.D.

SERVICE OF OFFICERS AND MEMBERS OF PENSION BOARD

1913-1927

Anderton, Walter P.	Medical Examiner	1917-1918
Anthony, Harold E.	Member of Board	1926-
Atchley, Dana W.	Medical Examiner	1923-
Baker, Jr., Geo. F.	Treasurer	1922-
Beers, Harry F.	Member of Board	1913-
Davison, F. Trubee	" " "	1924-
Davison, Henry P.	Treasurer	1916-1921
Delafield, Lewis L.	Counsel	1913-
Hard, Anson W.	Member of Board	1913-1915
Iselin, Adrian	" " "	1913-1923
James, Walter B.	" " "	1916-
Lanier, Charles	Treasurer	1913-1915
Mackenzie, Geo. M.	Medical Examiner	1916-1923
Osborn, A. Perry	Member of Board	1921-
Pindar, Geo. N.	" " " and Secretary	1913-
Pyne, Percy R.	" " "	1913-1920
Smyth, Fred. H.	Bursar	1913-
Tower, Ralph W.	Member of Board and Vice-Chairman	1913-1926
Warburg, Felix M.	" " " " Chairman	1913-
Wolfe, S. Herbert	Actuary	1913-

*To the President and Trustees of The American Museum of
Natural History and to the Subscribers to the Fund:*

I have the pleasure to submit for your consideration the Fourteenth Annual Report of the operations of the Pension Fund and its financial statement for the fiscal year ending December 31, 1926.

ONE of our largest life insurance companies recently sent out a questionnaire to a number of industrial corporations asking their replies as to what in their opinion "are the minimum elements of a decent, practical and efficient policy of industrial relations." Among the answers received was one from a prominent railroad executive, and some of his replies to the questionnaire might be considered as applicable to the conditions of employment in the Museum, more especially to the requirements and benefits of our Pension Fund.

Those of his replies are selected which are pertinent to the work of the Pension Board.

- (1) "A man, at the time of employment, should be examined as to his fitness for the work he is to do."
- (2) "There should be provided a method by which an employee could protect himself against the majority of hazards of life: (a) death; (b) injury; (c) old age; (d) illness; (e) loss of work; (f) disability; (g) total incapacity."

Examination of our pension rules bears witness to our desire, at the time of formulation, and now under the revision of our rules, to cover exactly the points brought out by this leader of industry. In fact, there is only one item, i. e., loss of work, which is not provided for in our rules. This item has been the subject of lengthy discussion among economists, and its desirability from an economic standpoint is questionable.

There is still another feature which those engaged in the study of pension laws and pension rules are coming to endorse, and that is our form of joint contributory system. We have always felt that this plan was best suited to our wants because it calls for joint representation upon the part of the corporation and of the employees and, therefore, it becomes a truly democratic combination and not a matter of relationship between master and servant.

The growth of the fund has been especially satisfactory. During the past fourteen years the invested funds have risen from \$1,000. to \$401,000., and an examination of the detailed financial statement will be found well worth while. In the past year there have been a large number of changes in the personnel of the employees, but in few instances have they involved pension settlements other than the return of contributions of the subscriber, which is provided in the rules.

During the existence of this fund there have arisen, from time to time, among our employees cases which really demanded that a helping hand be extended to relieve urgent needs. At the suggestion of a member of this Board, it was proposed to raise a fund that would be available at all times, subject to the approval of the Chairman, to assist such worthy individuals, and it is a pleasure to report that, responding to an appeal for this purpose, a fund in the amount of \$1,200. has been secured from among the Trustees of the corporation, to whom we extend our cordial thanks. It is our feeling that the manifestation of such a spirit for the relief of worthy cases, serves to create an *esprit de corps* between the corporation and the employees and is a further indication of the broad, humanitarian principles which are incorporated in our pension rules.

The Welfare Committee has assisted in providing hospital treatment for eighteen employees during the current year, and preventive measures have been afforded to a considerable number. The wisdom of establishing a system of required physical examinations of new entrants, as adopted some time ago, has been well justified.

The regretful portion of our report is the announcement of the losses we have suffered by death among our number. Mention of

these is to be found in another portion of our report, but we here render a note of respect to the memory of Dr. Ralph Winfred Tower, a member who had represented the employees on this Board from the beginning. In his passing there was an especial note of deep regret among our employees, but there was the consoling thought that he left behind him the impress of a life replete with persistent and unselfish effort to comfort, aid and better the lives of his co-workers. The following resolution has been spread upon our minutes:

RESOLVED, That as members of the Pension Board of the American Museum of Natural History we record with profound sorrow and a deep feeling of personal loss the death, on January 26, 1926, of our fellow member

RALPH WINFRED TOWER

As a member and vice-chairman of the Board from the time of its organization, Dr. Tower aided and freely gave his time and thought to the perfection of our Pension Plan. Through his assistance and knowledge, the employees of the Museum were aided in properly attending to their physical well-being and their minor complaints, while accidents incidental to their work received his careful attention and helpful treatment. In the administration of the Fund, his rare executive ability was frequently manifested in the adjustment of rules applicable to the peculiar working conditions of the Museum. In counsel, his opinions and judgment reflected careful, analytical thought and thorough training.

Dr. Tower's presence in our meetings was always inspiring. His affability and his genial spirit were a source of enjoyment. We desire to make permanent record of these attributes of Dr. Tower, to express our very deep sense of loss, and to extend to his family our most sincere sympathy. •

In another part of this report will be found notes of tribute to other deceased employees, together with a detailed financial statement and other statistical data.

We can not bring this report to a close without rendering favorable comment on the very helpful suggestions and advice of our counsel, Lewis L. Delafield, Esq., who at all times has been ready and willing to assist us in any complicated matter which has arisen.

Our examining physician, Dr. Dana W. Atchley, and his co-workers in the Presbyterian Hospital, have been especially solicitous in caring for and supervising the health of those employees who were in need of medical attention, and the cooperation given by the Administrative force of our corporation is likewise greatly appreciated.

FELIX M. WARBURG,
Chairman.

New York, December 31, 1926.

STATEMENT OF MEMBERSHIP

1926

ACTIVE

Subscribing Employees, January 1, 1926.....	304
New Subscribers, January 1-December 31, 1926.....	64
	<u>368</u>
Resignations, Voluntary Severance, Dismissals and Retirements	39
Deaths.....	3 42
Active Membership, December 31, 1926.....	<u>326</u>

RETIRED

Pensioned Employees, December 31, 1925.....	9
Employees Pensioned during 1926.....	4 13
Total Membership December 31, 1926.....	<u>339</u>

STATEMENT OF PENSION ALLOWANCES

Name	Yearly Amount	Date of Retirement	Period of Payment
H. Ernestine Ripley.....	\$464.00	Jan. 1, 1919	16 years
George A. Young.....	300.00	Feb. 1, 1919	15 years
James Kenney.....	470.28	Sept. 1, 1922	18 years
A. E. Anderson.....	300.00	Jan. 1, 1923	20 years 9 mos.
George J. Beeth.....	590.04	Nov. 21, 1923	18 years 9 mos.
Brower Palmer.....	1,012.08	Jan. 1, 1925	23 years 3 mos.
Robert McAnuff.....	805.00	June 20, 1925	Life
Otto Block.....	510.00	Nov. 1, 1925	15 years
Edward J. Yarrow.....	1,104.00	Nov. 1, 1925	Life
Maria E. Garrison.....	617.00	Jan. 1, 1926	Life
Charles W. Mead.....	996.00	Jan. 1, 1926	Life
Frederick F. Horter.....	609.78	May 15, 1926	16 years
William B. Peters.....	882.00	June 30, 1926	23 years

Deceased

CHARLES H. HARRIMAN

Charles H. Harriman was born February 12, 1887, in this city. He entered the service of the Museum nine years ago and was assigned to the custodian's force. He was most conscientious in the performance of his duties and in the regularity of his attendance. Those associated with him experienced a very keen sense of loss at his sudden death, for in addition to his other attributes he had a faculty for maintaining firm and hearty friendships. He died on January 24, 1926.

ROBERT J. NIMMO

Robert J. Nimmo was born in New York City on November 18, 1874, and entered the employment of the Museum in 1917. He was attached to the mechanical force as a tinsmith. At this trade he manifested an unusual aptitude in being able to construct exceedingly fine examples of ships, models of flowers and the like, during his spare moments. His deftness of workmanship enlisted the admiration of all who viewed these unique examples of his trade. Mr. Nimmo was a faithful employee who took deep interest in his work. He passed through a long period of illness, during all of which he was a patient sufferer. His death occurred November 7, 1926, and his passing was a distinct loss to his many associates and friends.

Deceased

RALPH W. TOWER

Ralph W. Tower, for twenty-three years Curator of books and publications in the Museum and a member of the Pension Board since its adoption in 1913, was born at Amherst, Massachusetts, May 24, 1870.

He identified himself with the Museum in 1902, and it is owing to his efforts more than to those of any other individual that the efficient building up of our splendid library, as it exists to-day, is due. In addition to this activity, Dr. Tower freely gave of his time to assist ill or injured employees, and his counsel was eagerly sought by those in need of helpful advice.

At the time of the organization of the Pension Board, Dr. Tower became a member, and his strong sense of justice greatly aided in the solution of difficult problems connected with the administration of the Fund, his wise and balanced judgment contributing largely toward the establishment of just and equitable rules between employer and employee.

Owing to his genial nature his friendship was warmly sought. His death, which occurred on January 26, 1926, occasioned deeply felt sorrow throughout the Museum, and our memory of him brings but a partial compensation for so great a loss.

FINANCIAL STATEMENT
OF THE
PENSION FUND
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
1926

	Invested Funds		
	Par Value	Income	Book Value
Investment Fund—			
Bonds	\$370,741.63	\$15,977.16	\$347,007.49
Mortgages	29,500.00	1,475.00	29,500.00
Endowment Fund—			
Bonds	1,258.37	50.34	1,140.39
	<u>\$401,500.00</u>	<u>\$17,502.50</u>	<u>\$377,647.88</u>

STATEMENT OF INVESTED FUNDS

	Securities	Due	Rate of Int.	Annual Interest	Book Value	Interest Payable
\$25,000.00	Atchison, Topeka & Santa Fe Ry. Co. Genl. Mtge.	1995	4%	\$1,000.00	\$22,177.50	Apr.-Oct.
10,000.00	Atlantic Coast Line R.R. Co. 1st Cons.	1952	4	400.00	8,940.00	Mar.-Sept.
10,000.00	Baltimore & Ohio R.R. Co. (Pittsburgh, Lake Erie & W. Va. System) Rfg. Mtge.	1941	4	400.00	8,194.75	May-Nov.
5,000.00	Baltimore & Ohio R.R. Co. 1st Mtge.	1948	4	400.00	8,713.00	Apr.-Oct.
10,000.00	Chicago & North Western Ry. Co. Genl. Mtge. Ser. "A"	1995	5	250.00	5,050.00	June-Dec.
10,000.00	Chicago & North Western Ry. Co. Genl. Mtge.	1987	4	400.00	8,982.50	May-Nov.
10,000.00	Chicago, Burlington & Quincy R.R. Co. (Illinois Div.)	1949	4	400.00	9,095.00	Jan.-July
10,000.00	Chicago, Burlington & Quincy R.R. Co. Genl. Mtge.	1958	4	400.00	8,806.25	Mar.-Sept.
5,000.00	Chicago, Milwaukee & St. Paul R.R. Co. Genl. Rfg. Mtge. Ser. "A" C-D	2014	4 1/2	*	4,668.75	Apr.-Oct.
5,000.00	Chicago & North Western Ry. Co. Genl. Mtge.	1987	5	250.00	5,007.50	May-Nov.
12,000.00	Cleveland Short Line Ry. Co. 1st Mtge.	1961	4 1/2	540.00	11,644.25	Apr.-Oct.
5,000.00	Delaware & Hudson Co. 1st & Rfg. Mtge.	1943	4	400.00	4,927.50	May-Nov.
5,000.00	Great Northern Ry. Co. 1st & Rfg. Mtge. Ser. "A"	1961	4 1/2	212.50	4,456.25	Jan.-July
10,000.00	Illinois Central R.R. Co. Rfg. Mtge.	1955	4	400.00	9,065.00	May-Nov.
10,000.00	Illinois Central R.R. Co. Rfg. Mtge.	1955	5	500.00	9,948.75	May-Nov.
10,000.00	Louisville & Nashville R.R. Co. Unified	1940	4	400.00	9,126.25	Jan.-July
10,000.00	Louisville & Nashville R.R. Co. 1st & Rfg. Mtge. Ser. "B"	2003	5	500.00	10,268.75	Apr.-Oct.
3,000.00	Montana Central R.R. Co. 1st Mtge.	1937	5	500.00	10,066.25	Jan.-July
10,000.00	Corporate Stock of the City of New York	1937	5	135.00	3,001.88	Jan.-July
5,000.00	New York Central & Hudson R.R. Co. Rfg. & Imp. Mtge. Ser. "A"	2013	4 1/2	225.00	4,706.25	Apr.-Oct.
20,000.00	New York Central R.R. Co. Rfg. & Imp. Mtge. Ser. "C"	2013	5	1,000.00	19,605.00	Apr.-Oct.
20,000.00	Norfolk & Western R.R. Co. 1st Cons. Mtge.	1936	4	800.00	18,304.75	Apr.-Oct.
5,000.00	Northern Pacific Ry. Co. Rfg. & Imp. Mtge. Ser. "A"	1996	4	225.00	4,895.00	Jan.-July
7,000.00	Northern Pacific Ry. Co. Rfg. & Imp. Mtge. Ser. "C"	2047	4 1/2	225.00	6,884.25	Jan.-July
15,000.00	Oregon Short Line R.R. 1st Cons. Mtge. Ser. "B"	2047	5	350.00	10,045.00	Jan.-July
12,000.00	Pennsylvania R.R. Co. Genl. Mtge. Ser.	1946	5	750.00	15,083.25	Jan.-July
3,000.00	Pennsylvania R.R. Co. Genl. Mtge. Ser.	1968	5	250.00	4,937.50	June-Dec.
20,000.00	St. Louis, Peoria & Northwestern Ry. Co. 1st Mtge.	1948	5	250.00	4,937.50	Jan.-July
20,000.00	Southern Pacific R.R. Co. 1st Rfg. Mtge.	1933	4 1/2	900.00	19,542.50	Jan.-July
20,000.00	Southern Pacific R.R. Co. 1st Rfg. Mtge. Ser. "A"	1957	4	800.00	17,897.00	Jan.-July
10,000.00	Union Pacific R.R. Co. 1st Lien & Rfg. Mtge.	1947	4	400.00	9,262.50	Jan.-July
10,000.00	Union Pacific R.R. Co. 1st Lien & Rfg. Mtge.	2008	4	400.00	8,740.00	Mar.-Sept.
5,000.00	Union Pacific R.R. Co. 1st Lien & Rfg. Mtge.	2008	5	250.00	4,926.50	Mar.-Sept.
6,000.00	Jamestown, Franklin & Clearfield R.R. Co. 1st Mtge.	1958	4	200.00	4,422.50	June-Dec.
8,000.00	Morris & Essex R.R. Co. 1st Mtge.	1959	3 1/2	210.00	4,734.00	June-Dec.
8,000.00	Louisville & Nashville R.R. Co. 1st Rfg. "C"	2009	3 1/2	210.00	4,734.00	Apr.-Oct.
11,000.00	New York Lackawanna Western Ry. Co. 1st Rfg. Mtge. "B"	2003	4 1/2	360.00	7,633.50	Apr.-Oct.
15,000.00	Pennsylvania R.R. Co. Genl. Mtge. "A"	1973	4 1/2	495.00	11,051.00	May-Nov.
8,000.00	Bond & Mortgage on Premises No. 210 E. 32nd St., N. Y. C.	1965	4 1/2	675.00	14,431.25	June-Dec.
6,000.00	Bond & Mortgage on Premises No. 26 Hamilton Terrace, N. Y. C.	1929	5	400.00	8,000.00	June-Dec.
8,000.00	Bond & Mortgage on Premises 1315 St. Lawrence Ave. (Bronx), N. Y. C.	1929	5	300.00	6,000.00	June-Dec.
7,500.00	Bond & Mortgage on Premises No. 122 Ninth Avenue, N. Y. C.	1931	5	400.00	8,000.00	Mar.-Sept.
\$401,500.00				\$17,502.50	\$377,647.88	

*No income received from these bonds during 1926.

PENSION FUND ACCOUNT**Receipts, 1926**

Cash on hand January 1, 1926.....		\$11,875.49
Contributions of Subscribing Employees:		
Deductions of 3% from payrolls of		
City Maintenance Account.....	\$3,678.41	
General Account.....	11,513.19	
Morris K. Jesup Fund Account.....	3,851.49	
Special Funds Account.....	587.51	
Corporate Stock Account.....	1,012.74	
	<hr/>	
	\$20,643.34	
Personal Payments of Subscribing Employees.....	864.29	
	<hr/>	
		\$21,507.63
Contributions of Board of Trustees:		
To Equal Contributions of Subscribing Employees		21,507.63
Income from Investment Fund.....	16,051.47	
Income from Endowment Fund.....	50.34	
	<hr/>	
		16,101.81
Interest on Credit Balances.....		164.57
	<hr/>	
		59,281.64
Bursar's Account		1,000.00
		<hr/>
		\$72,157.13

Examined and	{	A. PERRY OSBORN	}	<i>Auditing Committee</i>
Approved		F. TRUBEE DAVISON		

PENSION FUND ACCOUNT

Disbursements, 1926

Return of Contributions.....	\$4,945.84	
Interest on Contributions Returned.....	463.66	
	<hr/>	\$5,409.50
Service Pensions "A".....	\$5,299.36	
Service Pensions "B".....	1,251.00	
Pensions in Event of Illness, Dismissal, etc.....	1,437.57	
Death Gratuities Paid under Section 13.....	5,916.82	
	<hr/>	13,904.75
Expenses	73.33	
	<hr/>	\$19,387.58
Purchase of Securities:		
Investment Fund.....		\$42,421.00
Loan Account.....		1,000.00
Cash on Hand December 31, 1926:		
Deposited with the United States		
Trust Company of New York.....	\$8,348.55	
Deposited with The Colonial Bank (Bursar's Account) ..	1,000.00	
	<hr/>	9,348.55
		<hr/>
		\$72,157.13

E. and O. E.

NEW YORK, December 31, 1926.

PENSION FUND—SPECIAL FUNDS ACCOUNT**Receipts, 1926****Welfare Fund:**

Balance, January 1, 1926.....		\$143.97
Contributions	\$1,200.00	
Transferred from General Account (Allowance from Trustees).....	129.72	
Transferred from Interest on Credit Balances.....	23.82	
	<hr/>	1,353.54
Interest on Credit Balances:		
Earnings to December 31, 1926.....		23.82
		<hr/>
		\$1,521.33

Examined and { A. PERRY OSBORN }
 Approved { F. TRUBEE DAVISON } *Auditing Committee*

PENSION FUND—SPECIAL FUNDS ACCOUNT**Disbursements, 1926**

Welfare Fund	\$179.72
Interest on Credit Balances:	
Transferred to Welfare Fund.....	23.82
Cash on Hand, December 31, 1926:	
Deposited with United States Trust Company of New York.....	1,317.79
	<hr/>
	\$1,521.33

E. and O. E.
 NEW YORK, December 31, 1926.

GEORGE F. BAKER, JR.,
Treasurer.

SPECIAL SCIENTIFIC PUBLICATIONS

A REVIEW OF THE PRIMATES:

By Daniel Giraud Elliot, 1913. A monographic treatise in three quarto volumes. Paper, \$35.00; cloth, \$37.50; morocco, \$60.00.

BIBLIOGRAPHY OF FISHES:

By Bashford Dean, 1916-1923, covering the entire literature of fishes to 1914 and embracing 45,000 titles arranged alphabetically by authors. 3 volumes, \$15.00.

TERTIARY MAMMALS AND PERMIAN VERTEBRATES:

Hitherto unpublished plates. Prepared under the direction of Edward Drinker Cope, with descriptions of plates by William Diller Matthew. 1915. \$4.25.

FOSSIL VERTEBRATES IN THE AMERICAN MUSEUM:

Volumes I-VIII. Collected reprints from the Department of Vertebrate Palæontology. \$5.00-\$15.00 each.

ZOOLOGY OF THE CONGO, 1915-1926:

The following parts have appeared:

Mammalogy, 10 papers, \$12.80; Ornithology, 10 papers, \$2.10; Ichthyology, 6 papers, \$3.35; Herpetology, 3 papers, \$9.00; Entomology, 12 papers, \$18.40; General Invertebrate Zoology, 9 papers, \$8.50.

Collected papers from the American Museum *Bulletin* and *Novitates*; to be completed in 12 volumes and conclude with "Natural History of the Congo."

CENTRAL ASIATIC EXPEDITIONS:

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